70 Years Advancing the Nation’s Health

1946 - 2016

FACULTY OF MEDICINE
UNIVERSITAS GADJAH MADA
70 Years Advancing the Nation’s Health
### Vision
To be an excellent and innovative internationally recognized Faculty serving national interest and humanity, imbued with national values based on Pancasila

### Mission
To improve health of the population through excellent education, research, and service based on local wisdom, ethics, professionalism and evidence-based knowledge

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1946</td>
<td>Faculty of Medicine UGM established, three years prior to Universitas Gadjah Mada</td>
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<tr>
<td>1980</td>
<td>The first master program in the Faculty of Medicine established</td>
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<td>1982</td>
<td>Dr Sardjito Hospital established</td>
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<td>1986</td>
<td>Medical-health research ethics committee established</td>
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<td></td>
<td>The first research centre established (CEBU)</td>
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<td>1988</td>
<td>The board association of parents of students (POTMA) established</td>
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<td></td>
<td>The First IVF successfully conducted</td>
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<td>1998</td>
<td>Nursing department established</td>
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<td>Lab Tumour Biology established</td>
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<td>Cath-Lab for Interventional Radiology established</td>
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<td>1986</td>
<td>Medical-health research ethics committee established</td>
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<td>1989</td>
<td>Bioantropology Laboratory launched by Prof. Fuad Hassan, Ministry of Education and Culture, to commemorate 100 years of Paleoantropology Indonesia</td>
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<tr>
<td>2003</td>
<td>Full implementation of Problem Based Learning (PBL) started in the undergraduate program in Medicine</td>
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<td>Undergraduate School of Nutrition and Health established</td>
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<td>The new library building established</td>
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### Milestones

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<th>Year</th>
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<tr>
<td>2005</td>
<td>ISO 9001:2000 certification granted to Sardjito hospital</td>
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<tr>
<td>2006</td>
<td>Competency-based Curriculum started</td>
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<tr>
<td>2007</td>
<td>Ismangoen Building with mini hospital skills laboratory established</td>
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<td>2008</td>
<td>Semi lunar valve design for Ventriculo-peritoneal Shunt for patients with hydrocephalus by dr. P. Sudiharta, SpB, SpBS granted a patent</td>
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<tr>
<td>2009</td>
<td>Several complicated surgery procedures including Whipple procedure, radical neck dissection, vascular brain surgeries, and open heart surgery successfully performed at the Dr. Sardjito Hospital</td>
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<td>2010</td>
<td>Grha Wijata building established</td>
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<td>2012</td>
<td>UGM hospital established</td>
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<tr>
<td>2014</td>
<td>Sardjito Hospital accredited by the Joint Commission International for Academic Medical Centre</td>
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<tr>
<td>2015</td>
<td>The first liver transplant from a living donor performed</td>
</tr>
<tr>
<td>2016</td>
<td>ISO 9001:2008 certification granted to the Faculty of Medicine Main Building</td>
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Message from the Rector of Universitas Gadjah Mada for 70th Anniversary of Faculty of Medicine

Assalaamu’alaikum Wr. Wb.

Universitas Gadjah Mada’s Faculty of Medicine has the vision and mission which are inseparable from the vision of UGM, that is to be a world class Faculty of Medicine, which is innovative, excellent, whilst dedicating itself to the interest of the nation and humanity. As the oldest Faculty of Medicine in Indonesia, the milestone of establishment of UGM’s Faculty of Medicine has been through a very long process. During this long journey, various achievements, publications, and research outcomes have been produced.

On international level, several achievements have been made, among others are first winner of SIMPIC (Siriraj International Medical Microbiology, Immunology, and Parasitology Competition) 2014 at Faculty of Medicine, Siriraj Hospital, Mahidol University, Thailand; winner in the Oral Session of Haematology, Genetics, and Medical Physiology at University Medical Center Groningen (UMCG), Groningen, the Netherlands, as well as first winner in International Physiology Olympiad: 13th Inter-Medical School Physiology Quiz (IMSPQ).

In terms of research, the Eliminate Dengue Project (EDP-Yogya) group of Faculty of Medicine UGM has developed a research adopting a technology that uses Aedes Aegypti mosquito containing Wolbachia bacteria as a method of natural biological control for dengue fever prevention. After this has been developed in the regencies of Sleman and Bantul, by mid-year the research coverage will extend to the city of Yogyakarta.

The year of 2016 poses a challenge for UGM, which includes Faculty of Medicine, to continue to play its role among society and also on global level, particularly in distributing its research outcomes. One of the programmes that has been developed by UGM is the Water Tower, namely disseminating knowledge to society through the web media. Various types of developments of thoughts, research, or science and technology can now be distributed and utilised by the general public. For that matter, a synergy is required between all Faculties and units of UGM, including Faculty of Medicine.

Apart from increasing relevance and scope of UGM’s dedication as Water Tower, we will further implement several key agendas this year, including the completion of academic re-orientation process by re-designing the curriculum 2016 as well as improvement and development of human resource.

I do hope that Faculty of Medicine UGM can be the initiator of the development of those programmes. Long Live Faculty of Medicine UGM.

Wassalaamu’alaikum Wr. Wb.

Prof. Ir. Dwikorita Karnawati, M.Sc., Ph.D
Assalaamu’alaikum Wr. Wb.

On March 5, 2016, Faculty of Medicine, Universitas Gadjah Mada (FM UGM) will be 70 years old. This 70th anniversary is very special as it is celebrated along with the 34th anniversary of the Dr. Sarjito Hospital and the fourth anniversary of the UGM University Hospital. This reflects a remarkable synergy between these institutions.

The Faculty has lived through a long journey since its establishment. Many lessons learnt can be identified as a learning experience and taken further to grow faster. This Faculty has not only produced medical doctors, but also public health practitioners, nurses and dieticians.

In the last four years, there have been many changes regarding the university regulation and management, i.e. as Public university-legal entity (PTN BH). These changes have been well-anticipated by the Faculty to create a better and transparent financial system. The organizational structure of the university has also undergone major changes, and this has provided an opportunity for the development of new structure, departments and divisions.

In education, the undergraduate program in medicine has always been the national reference. The post graduate level also embarked upon international reputation through accreditation, joint programs and student-faculty exchange. In the coming year, the sub-specialists education program will also be integrated under the university program.

Research, and collaboration has been greatly improving with the highest number of international publications and community services at UGM. This achievement becomes our pride. Our collaboration with international partners as well as national and local collaboration with universities in Indonesia, central and local government institutions NGOs and other institutions certainly contribute to our endeavor to strengthen Faculty of Medicine UGM.

FM UGM as a member of AAIH (Association of Academic Health Center International) strongly encourages the establishment of cooperation in education, research and patient care with its educational network, including hospitals and primary care facilities in Yogyakarta and surrounding areas. Sharing of human resources, facilities and improving health status are in line with the referral system in the Universal Health Coverage system today.

Various achievements today are certainly contributed by many people. We sincerely appreciate the hard work of our predecessors, the seniors, former deans, all civitas academica, support staff, students, alumni, philanthropists and all for their support and assistance.

Long live Faculty of Medicine, Universitas Gadjah Mada.

Viva Medika.

Wassalaamu’alaikum Wr. Wb.

Prof. Dr. dr. Teguh Aryandono, SpB(K), Surgical Oncologist
Message from the President Director of Dr. Sardjito General Hospital Yogyakarta

Assalaamu’alaikum Wr. Wb.

In praising the Lord Almighty for all His blessings to us, the Directors of Dr. Sardjito General Hospital highly appreciate the release of the Profile Book of 70th Anniversary of the Faculty of Medicine, Universitas Gadjah Mada, which is also in conjunction with the 34th Anniversary of Dr. Sardjito General Hospital Yogyakarta and the 4th Anniversary of UGM hospital.

This Profile Book certainly becomes a comprehensive record figuring out the history of the Faculty of Medicine, Universitas Gadjah Mada since the very beginning, its progress, to its glory as a renown medical school in particular, and school of health sciences in general. We are proud to play a significant contribution to all these advancement and magnificence gained by the Faculty of Medicine after 70 years. When establishing the Faculty of Medicine, the founders have set up a teaching hospital producing competent doctors with excellent expertise in this global era, and a health service with international quality as well.

Dr. Sardjito General Hospital was founded during the evolving Faculty of Medicine Universitas Gadjah Mada, integrating other hospitals and clinics such as Pugeran Hospital, Mangkuwilayan Hospital, Mangkuyudan Hospital, Eye Clinic at Loji Kecil, Eye in-patients service in Jenggotan, Pediatric and Gynecology Clinic at Bugisan, to facilitate the education for young doctors, the specialists, and other health professionals. All these hospitals and clinics owned by Universitas Gadjah Mada were later united into the Dr. Sardjito General Hospital, officially established on February 8, 1982 by the President of Republic of Indonesia, Soeharto.

Even though Dr. Sardjito General Hospital then became under the auspices of Ministry of Health, as the main teaching hospital of the Faculty of Medicine, we keep our best intention and effort to create functional synergies with the Faculty of Medicine in all possible areas of development for the purpose of teaching, research and community service. This is further strengthened with the establishment of our network of AHS Yogyakarta (Academic Health System) led by Faculty of Medicine, in collaboration with UGM hospital, Dr Soeradjji Tirtonegoro hospital in Klaten, Dr Hardjo Lukito Air Force hospital in Yogyakarta, Banyumas district hospital and primary care clinics.

Again, congratulation to the Faculty of Medicine, Universitas Gadjah Mada on its 70th Anniversary. May Allah, the Almighty, bless you all and may all of us create our future for the betterment of this Nation. Amen.

Wassalaamu’alaikum Wr. Wb.

Dr. Mochammad Syafak Hanung, Sp.A. MPH
Message from the Director of UGM University Hospital

Assalamu’alaikum Wr. Wb.

On behalf of the Hospital of the Universitas of Gadjah Mada, I would like to say Congratulation for the 70th anniversary, the Faculty of Medicine Universitas Gadjah Mada on March 5, 2016. I hope that the Faculty of Medicine, Universitas Gadjah Mada keeps improving and going a step further to produce graduates who excel and play an active role for the betterment of the nation and the country of Indonesia.

The Faculty of Medicine has come a long way from the Hospital Tegalyoso Klaten to campus Mangkubumen and eventually join and remain in the magnificent campus in Sekip Bulaksumur. The Faculty has produced many health professionals in diverse fields to contribute to the progress of science and health fields. Some graduates have demonstrated a prominent role associated with the policy, management and health services in Indonesia.

As the oldest Faculty of Medicine in Indonesia, it is expected to be a pioneer to the development and advancement of medical education and health to the global level. The challenge ahead is increasingly complex and requires serious thought to increasing problems in the health field. Degenerative and non-infected diseases increase due to unhealthy lifestyles, while infectious diseases and the virus have not been resolved properly.

UGM Hospital provides full support in improving the quality of education in the Faculty of Medicine together with other hospitals joined in the Academic Health System (AHS) in Yogyakarta. We believe that we will further strengthen the position of the Faculty of Medicine to be the best. Cooperation that has been built together will generate strong synergies to achieve progress.

Long live Faculty of Medicine, Universitas Gadjah Mada.

Wassalaamu’alaikum Wr. Wb.

Prof. dr. Arif Faisal, Sp.Rad(K), DHSM.
Deans of Faculty

Prof. Dr. M. Sardjito MD, MPH

Prof. M. Sardadi
1954-1959

Prof. Drs. R. Radiopoetro
1961-1964

Prof. Dr. Ismangoen SpA(K)
1964-1966

Prof. dr. Ramlan Mochtar
1967-1969

Prof. dr. R. Soewasono
1970-1975

Prof. Dr. Teuku Jacob
1976-1979

dr. R. Soeprono
1979-1985
Prof. dr. Radjiman
1985-1991

Prof. Dr. dr. Soenarto Sastrowijoto, SpTHT(K)
1991-1997

Prof. dr. Purnomo Suryantoro, SpA(K), PhD
1997-2000

Prof. Dr. dr. Hardyanto Soebono, Sp.KK(K)

Prof. dr. Ali Ghufron Mukti, MSc.,PhD
2008-2011

Dr. Rr. Titi Savitri P., MMedEd., PhD
2011-2012

Prof. Dr. dr. Teguh Aryandono, SpB(K)Onk
2012-Now
Faculty Senate

Prof. Dr. M. Sardjito MD, MPH 1946-1954, 1959-1961

Prof. M. Sardadi 1954-1959

Prof. Drs. R. Radiopoetro 1961-1964

Prof. Dr. Ismangoen SpA(K) 1964-1966

Prof. dr. Ramlan Mochtar 1967-1969

Prof. dr. R. Soewasono 1970-1975

Prof. Dr. Teuku Jacob 1976-1979

dr. R. Soeprono 1979-1985

Dr. dr. Radjiman 1985-1991

Prof. Dr. dr. Soenarto Sastrowijoto, SpTH(K) 1991-1997

Prof.dr. Purnomo Suryantoro, SpA(K), PhD 1997-2000

Prof. dr. Marsyawan Heparis Nur Ekandaru Soesatyo, MSc., PhD Senate 2004-2010

Prof. Dr. dr. Hardyanto Soebono, Sp.KK(K) 2010-now
HISTORY

70 YEARS ADVANCING THE NATION’S HEALTH
The Struggle of Our Founding Fathers for National Sovereignty

During colonization era, there were two medical schools in Indonesia (formerly called Hindia Belanda): Geneeskundige Hoge School (GHS) in Jakarta and Netherlands Indische Arsten School (NIAS) in Surabaya. When Japanese came to Indonesia in the worldwar II, NIAS was closed, while GHS was changed to Djakarta Ika Daigaku. Medical students in that era were battling and actively contributing for independence. Some medical doctors were also active politically and struggling through intellectual diplomacy.

After independence was proclaimed in 1945, Djakarta Ika Daigaku was handed over by the Indonesian government and changed to Perguruan Tinggi Kedokteran (PTK). However, the situation was still unstable due to military aggression by Allied forces that came in October 1945. The medical students, the teachers in PTK were fighting against Dutch military. When Jakarta became chaotic, the founding fathers of Universitas Gadjah Mada: Prof. dr. Sarwono Prawirohardjo, Ir. Johannes and Drs.
Klaten period

Perguruan Tinggi Kedokteran (PTK) Klaten was established in March 5th 1946, and now is mentioned as anniversary date of Faculty of Medicine Universitas Gadjah Mada. Teaching activities and practical sessions were held in RSU Tegalyoso. At that time, all students stayed at the boarding house provided by PTK Klaten.

In 1948, there was a huge battle by Dutch military aggression II. Many colleges were attacked, including PTK Klaten. Therefore, PTK Klaten forcefully closed their academic activities. Many teachers and students supported our national warriors as medical teams. Some others also joined in guerrilla battle as warriors.

A year later (May 7th, 1949), Roem-Van Roeyen agreement was signed that returned Yogyakarta governance to Republic of Indonesia. Following the agreement, in May 20th 1949 at Pendopo Kepatihan Yogyakarta, a committee was appointed. The committee consisted of Prof. Dr. Soetopo, Sri Sultan Hamengkubuwono IX, Prof. Dr. Prijono, Prof. Ir. Wreksodiningrat, Prof. Ir. Harjono, Prof. Dr. Sardjito, Prof. Soegardo and Slamet Soetikno SH. They agreed to establish a National University that symbolizes national sovereignty.

Prof. Dr. Sardjito, the Head of PTK Klaten, agreed to establish PTK in Yogyakarta. Prof. Dr. Sardjito then asked a site in Yogyakarta to move all medical equipments and teaching materials from PTK Klaten because the situation in Klaten was still unstable. With generosity of Sri Sultan Hamengkubuwono IX, some buildings in Kraton Palace were permitted to be used to deliver academic activities. Perguruan Tinggi Kedokteran (School of Medicine) then occupied Mangkubumen building for teaching activities.

Moving PTK Klaten to Yogyakarta was indeed a thrilling action because Dutch aggression was still happening in Klaten. Prof. Sardjito went to Klaten

Radiopoetro decided to move PTK to Central Java. In order to evade from Allied forces, they were guerrilla through inland route. They transported medical equipments and literatures for 10 days from Jakarta to Klaten in November 1945.

With the available facilities, including RSU Tegalyoso, medical facilities and laboratory equipments, the PTK was opened in Klaten. The support from director of RSU Tegalyoso dr. Soenoesmo and all medical staff was unforgettable. Clinical teaching was mainly provided in Surakarta (RSU Jebres). Prof. Dr. Sardjito and dr. Poedjo Darmohoesodo were the main persons to protect the medical school in Klaten-Surakarta.
by bicycle and discussed with several teachers and students to plan the evacuation of PTK to Yogyakarta. They brought all the teaching materials and equipments, such as microscopes etc., placed in used cans or used boxes to deceive Dutch armies. They went through Merapi hills to evade Dutch bastion in Gondang. After 3 months with tireless efforts, all equipments were successfully transported to Yogyakarta.

Figure 2. A ceremony to celebrate the 23rd anniversary of Faculty of Medicine.

Great support was given by the Vice President of Indonesia, Drs. Moh. Hatta, Minister of Education Ki Mangoen Sarkoro and Minister of Health Dr. Soerono and Prof. Soetopo for establishment of the first national medical school (PTK). The opening ceremony was conducted by The First Indonesia President Ir. Soekarno in November 1st 1949.

Before PTK Yogyakarta was opened, there were some colleges already established in Yogyakarta: College of Engineering and School of Law. An idea to unite those colleges under the Ministry of Education was mentioned. In December 19th 1949, Universitas Negeri Gadjah Mada (UNGM) was established to unite all colleges in Yogyakarta. The Indonesian Government (signed by the President of Indonesia) released PP No. 37 to affirm that UNGM was under the Ministry of Education, therefore College of Medicine (Perguruan Tinggi Kedokteran), College of Dentistry (Perguruan Tinggi Kedokteran Gigi), College of Pharmacy (Perguruan Tinggi Farmasi) and RS Kedokteran (Teaching Hospital) were submitted to Ministry of Education.

Since 1954, UNGM was changed into Universitas Gadjah Mada (UGM) that consisted of several Faculties.

In response to the need for teaching spaces, Sri Sultan Hamengkubuwono IX donated Bulaksumur and Karangmalang area for UGM campus. Several buildings were then built to centralize all faculties in one place.
Figure 4. Inaugural ceremony of new medical doctor graduates. At that time, only few students could pass the study program, because in the early phase of Mangkubumen period the students did not have course syllabus but instead, they just followed their supervisors (called 'nyontrik').

Figure 5. New medical doctors who just graduated
Figure 7. During Mangkubumen period, UGM has several teaching hospitals: Pugeran, Mangkuwilayan, Mangkubumen and Mangkuyudan. This photo was taken in the ward of Pugeran hospital.

Figure 8. Mangkubumen hospital

Figure 10. In 1982 the idea to unite all UGM teaching hospitals was achieved by establishing Sardjito hospital.
Kampus Biru period

Cintaku di kampus biru (the great romance in the blue campus)

In 1982, finally all teaching facilities of the Faculty of Medicine were centred at UGM campus in Sekip.

The Faculty of Medicine had 11 buildings at that time with all the supporting facilities, laboratories and library.

In order to support the clinical teaching, all UGM hospitals spread all over Yogyakarta (RS. Pugeran, RS. Mangkuyudan, and RS. Mangkuwilayan) were united into one main teaching hospital. In 1982 the teaching hospital, RSUP Dr. Sardjito was established.

In this period, various innovations were fundamentally settled. Collaborations with several prestigious international partners were also made, such as with Maastricht University, Kobe University, John Hopkins University, Rockefeller foundation etc. This collaborations were mainly dedicated for capacity building and human resource development. Many junior staff were sent all around the world to learn from the best Universities in various medical fields. In addition, various international conferences were held in UGM that increased the credibility of UGM.

An important academic milestone was also made in this period. Problem-based learning (PBL) was initiated. Inspite of great challenges faced due to limited facilities and staff resistance, with patience and endless efforts PBL was finally implemented.
Faculty of Medicine Universitas Gadjah Mada was established as populist campus, school for all people. Our founding fathers sacrificed everything to settle the most fundamental milestone in nation’s history: education for the Indonesian people.”
Dr. dr. Radjiman was born on June 21, 1932 in Wonosobo and was the Dean of the Faculty of Medicine of Universitas Gadjah Mada (FM UGM) in the period of 1985-1991. With his leadership, the FM UGM gained many achievements.

When he was first appointed as a Dean, he faced many challenges to overcome, such as the limitation of human resources, equipment, and financial budget. At that time, he felt that the faculty members were complacent and there was no breakthrough to increase the university rank. At that time, students and medical graduates also did not have enough communication skills and there was limited relationship and collaboration between students and lecturers. There was no eagerness of the medical students to pursue or to get experience of studying abroad. The international and national collaboration with the Ministry of Health and other health institutions was very limited.

“Without good collaboration, we cannot move forward.”

Dr. dr. Radjiman
1985-1991
As the initial step in revamping FM UGM, Dr. Radjiman made the effort so that FM UGM could join the Network of Community-Oriented Educational Institutions for the Health Sciences, which served as the bridge between FM UGM to the world. The Network of Community-Oriented Educational Institutions for the Health Sciences eventually evolved into The Network Toward Unity for Health (TUFH), of which FM UGM is still registered as a full member.

In 1990, FM UGM had been appointed to organize an International Conference in Yogyakarta. This international conference was an achievement for the FM UGM at that time. Many universities in Indonesia and other international universities participated in this conference. Women Health and Public Health were chosen as the topic of the conference.

Besides striving to strengthen FM UGM internationally, he also built its internal system. Problem Based Learning (PBL) was the learning system which was firstly introduced to FM UGM. Changing Medical Education Curriculum from a conventional method into new curriculum based on PBL was not easy. Students and lecturers were reluctant to this change. With patience, Dr. Radjiman tried to communicate and approach faculty members to have more understanding about this new approach in medical education. He also invited a guest expert in PBL from The Netherlands for capacity building and to give a workshop about PBL and how to build an infrastructure for PBL curriculum, such as skills laboratory, library, building also books and journals for students and lecturers.

Around 1990, for the first time the FM UGM owned computers with internet connection through collaboration with Canada. Computers with internet connection could be used by students, lecturers, and supporting staff to implement PBL. Finally, PBL could be implemented in the FM UGM when Prof Soenarto was the Dean of the FM UGM.

When Dr. Radjiman was the dean of the FM UGM, students were actively involved in many faculty activities. They had a media to discuss and give suggestions for medical doctor curriculum and other faculty policy related to students. Many students got a prize in Scientific Olympiad and actively involved in Asian Medical Students Association (AMSA) until now.

Dr. Radjiman was well known as a democratic, humorous and humble leader. He was widely loved. Many family gatherings were organized to build solidarity between faculty members. This include activities such as competition in decorating medical garden, student choir, and other religious activities. Those activities gave nice memories for students, supporting staff and lecturers.

Dr. Radjiman is also passionate about art. He initiated the idea that FM UGM should have its own anthem. He asked Dr. Damudoro Nuradyo to arrange the anthem, which is now known as the “Viva Medika” hymne. Now it is the formal anthem of FM UGM. He also organized many concerts at FM UGM, such as Jazz Concert and Classical Concert collaborating with the Dutch cultural center and also sent students to participate in Student Choir Competition.

He hopes that the FM UGM will further flourish in the future, building wider collaborations including exchange programmes with other universities and institutions nationally and internationally, increasing research activities, maintain quality of medical graduate and maintain a good collaboration with hospitals and other institutions. He also hopes that the new leaders of FM UGM listen to all the needs of students, lecturers and supporting staff also and maintain collaboration with other institutions. Without good collaboration, we cannot move forward.
“Everything that was done by heart never makes us tired”.

Prof. Dr.dr. Soenarto Sastrowijoto SpTHT-KL(K)
1991-1997

Prof. Dr.dr. Soenarto Sastrowijoto SpTHT-KL(K), the dean of Faculty Medicine Universitas Gadjah Mada for two periods (1991-1997) is a professor of ENT surgeon, an expert in Medical Education and Bioethics and Humanities. His involvement in running medical faculty was already started when he was appointed as a Vice Dean in Education at the FM UGM in the era of Dr. Radjiman.

As a leader of FM UGM he tried to apply many styles of leadership. The leadership concept that he applied was a combination of “delegating” or spreading and delegating all tasks to the the staff; “supporting” when he coached all of his staff members and using also a “directing” leadership. He tried to use all of those leadership style to gain a better output. He also used another concept which is called “Different stroker for different folks”.

In the era of Prof. Soenarto leadership, one of the most prominent achievements was the innovation in medical education curriculum. Medical education curriculum was being transformed from informative curriculum to formative curriculum then it was continued by the application of Problem
Based Learning (PBL) curriculum. One of the important components in PBL is leadership. In this curriculum, the FM UGM would like to produce not only medical doctors but also professional doctors who can be “agents for change” and inspirators. Innovation in medical education is not only in undergraduate level but also in clinical teaching in specialization programs. His policy was triggered by his attendance in WFME (World Federation for Medical Education) conference. At that time he already thought about the International standardization of Medical Doctor that still included 30-40% of local wisdom in their curriculum. To achieve this aim, he developed an International Programme for Undergraduate and Medical Education which then followed by other universities in Indonesia. He mentioned his disappointment about how International programme running now in the FM UGM. Many teaching learning processes do not use proper English and the students do not come from many countries.

Human resource development in his era was to send academic staff studying abroad to pursue post graduate programs.

The most impressive point from him while leading the faculty was that he can be a dean who is closed to the non academic staff, academic staff and students. Every year he tried to come to his staff to greet them during led. He likes being involved in organizations since he was a medical student. When he was a young staff member he was active in giving a suggestion to the faculty member including organizing a meeting to decide whether Rockfeller Programme can be continued in the FM UGM.

Besides Innovation in Medical Education the milestone that was achieved during his leadership was the development of International Collaboration in Research. At this time WHO decided to choose the FM UGM as a collaborating partner including developing Faculty of Medicine Library headed by Dr. Radjiman. Another project was the collaboration with University of Aarkhus Denmark and UMEA University Sweden. The FM UGM also granted OECF (Overseas Economic Collaboration Fund) from Japan for 5 years. This project funded PhD program for academic staff and built Radiopoetro building. He also initiated collaboration with Harvard Medical School by sending ten senior and mid-career faculties under Freeman fellowship. He himself got Fulbright scholarship as a senior researcher. According to him, International collaboration have already been developed since Prof. Swasono and then followed by Dr. Radjiman. The success of nurturing the collaborations is partly due to the habit of inviting guests for dinner at home with his wife (Prof Yati) as well as with Dr Radjiman and his wife (dr Tri Sutartin).

National collaboration also flourished during his leadership, such as CHN-RL (Communty Health and Nutrition Research Laboratary) Project in Purworejo, H-PEQ (Health Professional Education Quality) with Ministry of Health and QUE (Quality of Undergraduate Project Improvement) Project. He hopes that international and national collaboration will flourish further in the future. He also suggests that senior faculties should be mentoring younger faculties. He hopes that the medical graduates from the FM UGM meet WFME standards to enable them to compete in ASEAN or other regions. Last, but not least, he hopes that FM UGM can produce professional medical, nursing and nutrition graduates who can be agent of change and inspirators for others not only in Indonesia but also in ASEAN and the rest of the world.
“...that a leader can not be made. A good leader can solve the problem based on the problems that he/she has to solve.”

Prof.dr. Purnomo Suryantoro, SpA(K), PhD
1997-2000
Prof. dr. Purnomo Suryantoro, SpA(K), PhD became the Dean of Faculty of Medicine, Universitas Gadjah Mada in the period of 1997-2000. In his era, one of the most important achievements was the development of Quality Assurance by Dr. Rossi Sanusi. This program was firstly implemented in QUE Project which had already started during the term of Prof Soenarto as the Dean. He mentioned that he did not do many innovation, but he tried to make the faculty leadership closer to the departments by regularly visiting the departments. His achievement was to get rid of fences between departments. His policy was to make a wider space for parking and increase safety of the faculty. To achieve this, the faculty built a gate and a security system to take care of campus safety.

His notable achievement was to increase FM UGM's world ranking. Another achievement was the official recognition of the Department of Nursing by the Consortium of Medical Sciences. In his period, the Undergraduate Programme Department of Nutrition also received a certificate of recognition from the Department of Higher Education.

The quality of FM UGM graduate is one of his main concerns. After completing his task as a Dean of the FM UGM, he still tries to find out how to educate a professional physician who can manage the patients holistically. Prof. Purnomo hopes that FM UGM can educate their students to be good and sceptical physicians. Students should not just follow what lecturers say, but also they can find a way by themselves to solve the problems.

When he was asked the type of leadership he used, he mentioned the “Garuda Ngayang” style referring to the Garuda bird observing the situation from above, and landing to the ground if he feels that he has to help or involved to solve the problem. When he was asked about what is the requirement of becoming FM UGM leader, he mentioned that a leader cannot be made. A good leader can solve the problem based on the problems that he/she has to solve.
“We have to work hard to improve our ranking in the World University Ranking. We should use the proper way to achieve this and always remember that our university is the first university owned by the government of the Republic of Indonesia”.

Prof. Dr. dr. Hardyanto Soebono SpKK(K)

2000-2008
Prof. Dr. dr. Hardyanto Soebono SpKK(K) is a professor of Dermatology and Venereology, and was appointed as the Dean in Faculty of Medicine Universitas Gadjah Mada (FM UGM) in the period of 2000-2004, and 2004-2008. His expertise is in Leprosy, Tropical Dermatology, Allergy and Immunology.

The main challenge he faced as the Dean was implementation of Problem Based Learning (PBL). PBL was not yet fully implemented even though this program had been partially implemented since the 80s. It was indeed a great challenge to fully execute this program. At that time, only one PBL Block in each semester was applied. The disadvantage of partial implementation of PBL was that there were many duplications of content given to the students, besides inefficient management. After a continuous effort, finally, PBL was fully implemented in medical curricula since 2002. Another challenge faced at that time was budget limitation in the FM UGM. An incentive for lecturers were also still limited.

When Prof. Hardyanto was appointed again as the Dean for the second term, he had been elected as the President of the Indonesian Association of Medical Schools (Asosiasi Institusi Pendidikan Kedokteran Indonesia/AIPKI). In this period, FM UGM was well-known as a trendsetter for other Faculties of Medicine in Indonesia. He had an obsession that all universities in Indonesia fully implemented PBL. He was very proud of FM UGM as the only faculty had implemented this approach on full scale. Other faculties tried but still unsuccessful at that time.

When he was asked about how to overcome the resistance on implementing PBL from some of the academic staff, he mentioned the strategies as the following. In the year 2004, after the legislation of Medical Practice Act No 29 in Indonesia, the National Standard for Medical Training and Standard of Competence for Medical Doctor had to be developed and implemented by all medical training in Indonesia which had been approved by Indonesia Medical Council (KKI) at that time. This recommendation was then being accepted at the national level. Consequently, all medical schools in Indonesia have to fully implement PBL, and nowadays these have been done.

When probed further about whether FM UGM as the pioneer and innovator of the PBL curriculum in Indonesia still implements PBL according to the philosophy of PBL, he answered that PBL implementation in the FM UGM corresponds to the medical doctors standard of competence. When firstly implemented nationally, many medical education experts from the FM UGM were invited to give many training and workshops in other universities in Indonesia. In the FM UGM itself, the medical curriculum has undergone many improvements every 5-6 years to respond to the needs. “In our curriculum, both horizontal and vertical block integrations took place. For example, in a Block addressing Reproduction, it cuts across knowledge from basic science, clinical science, up to public health. The disadvantage of this curriculum, is however, according to some teachers, the
understanding about basic science may not be adequate”. He recommends that to develop medical curriculum in this era, we have to refer to the competence standard where all medical doctors in Indonesia will serve the community as primary care physicians.

Another significant change occurred during the leadership of Prof Hardyanto as the Dean was in 2000, for the first time UGM was appointed as PT BHMN (Perguruan Tinggi Badan Hukum Milik Negara) as stated in Government Regulation (Peraturan Pemerintah-PP) no 153, 2000 together with another three universities, i.e. University of Indonesia, Institut Teknologi Bandung and Institut Pertanian Bogor. As a consequence, UGM became autonomous university in academic as well as non-academic affairs, including to manage and plan its own budget. At at time, it was at the first time for the Faculty to organize annual budget planning meeting (Rapat Kerja Anggaran Tahunan-RKAT). Therefore, the faculty had to manage this funding to support many activities. After PT BHMN was being implemented, UGM was then allowed to manage public funding. With limited budget from the central government, the faculty could then have additional sources to support many activities. Prof. Hardyanto and Prof. Sofia Mubarika joined leadership management training at the national level to manage this task.

To develop Skill Laboratory and to strengthen Health Professions Education in Indonesia, FM UGM received grant from the Government via the QUE Project for 5 years. After this project was finished, the activities were continued under the grant from PBSI (Programma Billaterale voor Samenwerking met Indonesie) or MUNDO (International Relation Office from Maastricht University from the Netherlands). After PBSI, FM UGM got another grant from NPT Project The Netherlands for another five years and Dr. Titi Savitri acted as the Project Manager. This project was used for Strengthening Competence Based Clinical Education using Problem Based Learning Strategy. Many academic staff pursued postgraduate (master and doctorate) degrees in The Netherlands.

Regarding the leadership style, Prof Hardyanto confessed that he used participative leadership style, combined with some authoritative style. Authoritative mangement according to him was sometimes useful in managing staff who for example had many ideas but were very difficult to be managed. “Financial incentive does not fully attract them, they have to be given good explanation and reasons why such a program have to be implemented”. Prof. Hardyanto was also being appointed as the President of Perdoski (Indonesian Dermatovenereologist Association) and the President of AIPKI for the second period.

In 2003, Radiopoetro Building was established. This building consisted of six floors which allocated for practical as well as research laboratories. The development of this building was initiated during the previous dean, supported by the JBIC (Japanese Bank for International Cooperation) Project, Japan.

Even when the funding was still limited, “Funds had to be managed in an efficient way”. Again the faculty was efficiently able to save money to build the Nursing Building independently. Besides Radiopoetro building, Graha Wiyata, Nursing Building and
Renovation of Faculty Administrative Building were carried out in his period of leadership.

In human resource development, many academic staff were sent abroad for pursuing doctorate degree. At that time, the FM UGM had 120 lecturers with Doctorate degree. In the year 2004, UGM ranked 73 but unfortunately it was decreasing afterward. “We have to work hard to improve our ranking in the World University Ranking. We should use the proper way to achieve this and always remember that our university is the first university owned by the goverment of the Republic of Indonesia”.

Last but not least, he hopes that FM UGM still maintains its reputation as a community university and in parralel it has to be a world class university also. With many young academic staff holding doctorate degrees, we are looking forward for their performance. We also need more professors. Our faculty has to build not only collaboration but also alliance. Alliance with hospitals especially, Sardjito Hospital as an academic hospital under the Ministry of Health. They must not only focus on patient care but also conducting research and education. We need to synergize the Vision and Mission of the University and the Hospitals. We need a better alliance to strengthen AHS (Academic Health System) with the Faculty of Medicine as a leader and Dr Sardjito Hospital, UGM Hospital, Hardjo Lukito Air Force Hospital, Dr Soeradji Tirtonegoro Hospital, Banyumas District Hospital and other hospitals and primary care facilities.
“...decision not only came from the top management but also from the participation of faculty members”.

Prof. dr. Ali Ghufron Mukti, MSc.,PhD
2008-2011

Prof. dr. Ali Ghufron Mukti, MSc.,PhD became the Dean of Faculty of Medicine Universitas Gadjah Mada in the period of 2008-2011. Prof Ghufron is a Professor in Public Health. He was the first dean who came from the public health department as for many periods deans came from the clinical department.

He actually never had any intention to be the leader of this faculty. After inaugurated he had to face many challenges. At that time many young academic employees had not been appointed as permanent employees due to the limitation of academic formation. The other problem was the lack of housing facilities for them. At that time, lecturers incentives were limited. Connection and collaboration between pre clinical, public health and clinical departments were also limited.

On the other hand, there was a high trust from the community to the reputation of UGM. This trust is an important factor for mobilization of communities, such
as through the parents association (POTMA) and alumni. This trust raised funding from POTMA for designing and building a student dormitory in a district hospital. Support from seniors who had a spirit in building the faculty is another strength in helping him as a faculty leader. Another achievement when he was the dean was that UGM ranked 103 in the QS world ranking. Subsequently, he was appointed as the Deputy Minister of Health.

While leading this faculty he was applying participative management where decision not only came from the top management but also from the participation of faculty members. He applied the balanced score card approach using 4 indicators (revenue, teaching learning process, internal and external satisfaction and organizational growth) to evaluate the faculty performance.

Using the above managerial style, he increased the faculty revenue from only 60 billions rupiah to 200 billions rupiah only in 3 years. He pointed that students and academic staff is the consumer of the Faculty organisation. To maintain the sustainability of the organization, developing the human resources is one of his main concerns. In his period Prof Ghufron tried to find a scholarship for academic staff to pursue post-graduate education abroad including organizing pre-departure training. When he had a chance to have a business trip to the Netherlands, he met the academic staff who studied there and tried to gather information about their needs including the uncertainty of their employment status.

For capacity building in participative management, FM UGM invited educational leader in medical education from Groningen The Netherlands Prof. Rhein Zwiestra Rector Magnificus University of Groningen. This capacity building initiative targeted to Heads of Department and Heads of Study Program who were invited periodically for workshops and obtained feedback from the trainers.

In recognition of achievement in Innovation in Medical Education, Prof Ghufron was also appointed as the President AIPKI (Indonesia Association of Medical Education Institution). At this time FM UGM was a pioneer in developing Competency Standard of Indonesian Medical Doctor. FM UGM was also a leader in developing Skill Laboratory Examination using OSCE programme. One of the dreams that has not yet been realized when he was the Dean of FM UGM was the development of the Postgraduate Building. Prof Ghufron hopes that FM UGM in the future becomes a world class university with international students from many countries.

Recently he is appointed as a Director of Human Resources and Asset of the Ministry of Research, Technology and Higher Education. He advised that future leader of FM UGM should have leadership skills, be persistent, have a broad national and international network, understands bureaucracy, and can be accepted by everybody.
“...a leader is a servant, so her achievement is when she can provide what everybody needs”.

dr. Rr. Titi Savitri Prihatiningsih, MA., M.MedEd., PhD

2011-2012

Dr. Titi Savitri, an expert on Medical Education, was the Dean of Faculty of Medicine Universitas Gadjah Mada in 2011-2012. Since she was a medical student, she was involved in the development of medical education in FM UGM. She was one of the assistants of Dr. Rossi Sanusi in developing Community Oriented Medical Education curriculum when Dr. Radjiman was the Dean of FM UGM. At that time, innovation in Medical Education Curriculum was just starting. Since then she was interested in Medical Education. Her interest was triggered by her complaint and unsatisfaction with the educational system in FM UGM when she was a medical student.

Dr. Titi Savitri also had experience working at British Council as a project officer, which gave the opportunity to manage health education project. This made her even more interested to learn medical education. Her job in British Council gave her a chance to travel around Indonesia and meet university leaders such as Rectors and Vice Rectors. She was promoted and moved to Manchester, UK to...
work there in 1993-1994. Her tasks was to organize European Union Scholarships and organized educational projects in India and other Asia Pacific countries under the Asia Pacific Directorate.

When she met Mark Ristler, a senior consultant from European Union in Brussels, he told her “When you quit from British Council, it will be easy for them to find new people to replace your position, but if you work here in British Council your country will miss you.” That was a turning point for her and she decided to go home. Fortunately Prof. Soenarto gave her a call, informing her on a vacancy to be a lecturer. At UGM she applied for this position and was accepted as a lecturer. She felt that working in FM UGM give her a chance to contribute more for her country.

The Dean of FM UGM at that time gave her a task to develop a proposal for QUE (Quality for Undergraduate Education) Project. Her experience working in British Council contributed to the development of this proposal and led to the success of FM UGM in obtaining the grant in 1996. With this QUE Project Grant, FM UGM developed Skills Laboratory, curriculum and human resources to pursue post graduate degree in medical education. She also developed the NPT project with the Netherlands government to reform medical education from content base to competence based curriculum with Maastrich University as a consultant. She was also trusted to develop another proposal for HPEQ Project, for strengthening the university management system.

She was appointed as the Vice Dean for Academic affairs when Prof Ghufron was the Dean. Subsequently, when Prof Ghufron was appointed as Deputy Minister of Health, she took over as the dean and continued reforming medical education. As a Dean, she put a lot of attention in supporting career development of both lecturers and supporting staff. She sent supporting staff to National University Singapore and Sydney Medical School so that they can directly experience how to manage medical faculty office professionally. They were also sent to learn IT management in Australia. After this programme there was a significant improvement in how their work.

According to Dr. Titi Savitri, a leader is a servant, so her achievement is when she can provide what everybody needs. When asked about her hope for the future leader of FM UGM, she hopes there will always be a continuity of the programme which has already been started and implemented by previous leaders. She emphasized that it is not easy to build a good system and it needs around 4-5 periods to establish such system. So the system can not mature if every leader changes their system and policy.

She believes that FM UGM has excellent human resources with extra ordinary talent, very good lecturer and very bright students. Thus, she highlighted that it is time to increase our reputation and rank in Asia and the world.
PRESENT PERIOD

70 YEARS ADVANCING THE NATION’S HEALTH
## Faculty of Medicine in Numbers (2015)

- **32** Departments
- **303** Full-time faculty
- **441** Part-time faculty & affiliates

### Activities

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<td>Learners in Nursing</td>
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<td>Learners in Clinical Specialty programs</td>
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### Faculty of Medicine Leadership

**Dean**

Prof. Dr. dr. Teguh Aryandono, Sp.B(K)Onk, Surgical Oncologist

**Vice Deans**

**Academic, Student and Alumni Affairs**

Prof. dr. Ova Emilia, MMedEd, SpOG(K), PhD, Consultant Social Obstetrics and Gynaecology

**Research, Community Service, Collaboration and Graduate Affairs**

Prof. dr. Adi Utarini, MSc., MPH., PhD, Public Health

**Finance, Asset and Human Resource Affairs**

dr. Ibnu Purwanto, SpPD(K), KHOM, Internist, Medical Oncologist
Assistants to Vice Deans

**Student and Alumni Affair**
Dr. dr. Carla Raymondalexas Marchira, SpKj(K), Consultant Psychiatrics

**Physical Asset and Information Technology**
Dr. Fitri Haryanti, SKp., MKes

**Human Resource Management**
Prof. dr. Suhardjo, SU., SpM(K), Eye Consultant

**Collaboration and Community Service**
dr. Endro Basuki, SpBS(K), MKes, Neurosurgeon

Administration

**Chair**
Drs. Djoko Suprono

**Academic**
Nurul Wulansari ST

**Finance**
Ir. Yulistiarini Kusumaningrum, MM

**Human Resource and Asset**
Mugiyarto, S.IP
AWARDS

2015

Doctor of Honoris Causa from Melbourne University, Australia

The University of Melbourne awarded Prof Yati Soenarto the academic title of Doctor Honoris Causa for her contributions to medical and health science during 40 years. The ceremony was part of the Inauguration of Priscilla Kincaid-Smith Oration on Health and Conferring of Degrees, held on November 10, 2015 at the Melbourne Brain Centre Auditorium.

ILTS Travel Grant Essay Competition
Dr Gunadi, PhD won the International Liver Transplant Society (ILTS) Travel Grant Essay Competition with the theme “Pushing Boundaries, Transforming Lives” aimed to increasing awareness and knowledge of Liver Transplant. This is part of the implementation of the Liver Transplant Symposium, which was held by the National University Centre for Organ Transplantation (NUCOT) and the International Liver Transplant Society (ILTS) on 6-8 November 2015 at the National University Hospital, Singapore.

Second International Accreditation from the Forum for Ethical Research Committee in Asia-Pacific
Medical-Health Research Ethics, Faculty of Medicine Universitas Gadjah Mada

International Accreditation from the International Medical Informatics Association
Public Health Graduate Program, majoring in Health Information System Accreditation by the International Medical Informatics Association for Master Program in Public Health, majoring on Health Management Information System (SIMKES). This is the first postgraduate program in Indonesia which is accredited by IMIA, an internationally accreditation institution of higher education who has a good reputation in the field of health and biomedical informatics based in Geneva, Switzerland.

WHO-TDR Awards for International Program in International Health
Faculty of Medicine Universitas Gadjah Mada

National Research Council (Dewan Riset Nasional-DRN)
Prof Adi Utarini is selected to be member of the National Research Council (DRN), technical commission on Health and Medicine for period of 2015-2018

The First Winner at the 13th International Medical School Physiology Quiz (IMSPQ) in 2015
Danny Agus Pramanana W, Widyan Putra Anantawikrama, Marcellus Korompis, Francisco Gilbert T, dan Mohammad Galih P

Three Silver Medals in Individual Prize category at the Siriraj International Medical Microbiology Parasitology and Immunology Competition (SIMPIC) 2015
Ahmad Musthafa, Yoshua Anthony Putra, Irfan Haris

National Scientific Competition for Students
Bronz Medal, PKM M category. Lintang Sagoro dan Abdul Malik Yoga P PUNTADEWA: Empowering the elderly to be productive, active, and healthy: Improving quality of life through health promotion and herbal medicine training.

2014

First Winner, Young Scientist Ristek Kalbe Science Award
Dr Gunadi PhD (Department of Surgery)
Title: The Importance of Molecular Genetics Analysis for Diagnosis of Diseases

Triton Award, First Winner Scientific Podium Competition), on the 39th Biennial World Congress of International College of Surgeons dan Best International Publication Award from Universitas Gadjah Mada
Dr. Sumadi Lukman Anwar, PhD
Title: “Sub-classification of cancer using DNA methylation patterns at imprinted loci and its potential for diagnostic and prognostic markers”

Patents for pharmaceutical preparation for treatment of sexual problems in human
Prof Dr. Mustofa MKes, Apt

SAME grant receiver at Aarhus University, Denmark with the main focus on stereology research
Dr Ginus Partadiredja PhD

The Regional Training Center for Health Research, WHO Tropical Disease Research Centre of Excellence on Comprehensive Family Planning Training, National Agency for Family Planning, Indonesia and UNFPA Centre for Reproduction Health
Gold Medal, SIMPIC (Siriraj International Medical Microbiology, Immunology and Parasitology Competition), held at Faculty of Medicine Siriraj hospital, Mahidol University, Thailand
Nurkholis Braman, Stevanie, Lilie Fransiska, Eric

Winner of Haematology and Genetics and Medical Physiology Oral Session - International Student Congress of biomedical Science (ISCOMS) 2014, University Medical Center Groningen (UMCG), Groningen, the Netherland
Sarah Safira Umarghanies
Correlation between hemoglobin and ferritin level in pregnant women in Indonesia

Special award on poster category in Canada and Korea
Michael Dwinata, Amadisto Gerwindrawan, Anditta Syifarahmah and Ariadne Aulia

Award for poster presentation on international scales in Germany, Malaysia, Jakarta and Netherlands.
Guntur Genedict Hutajulu, Lisa Novianti, Made Harumi Padmaswari, Sarah Safira Umarghanies
Second gold medals and 1 silver medal on 27th Annual National Student Scientific Competition held at Diponegoro University
Putri Istiqomah RH, Yasmin Noor Afifah, Ruli Aulia, Nadira, AUlia Fitri and R Ditya Devale Rinenggo

First Winner for Student with Best Achievement Mohammad Ali Zaenal

Oral presentation at the International Conference, 46th Asia Pacific Academic Consortium for Public Health
Lisa Novianti

National Scientific Conference on Epidemiology (NSCE)
Nur Aini Kusmayanti SGz, second best oral presentation
Misinem SKM, best poster
Edy Marujuang Purba SKM, third best poster

Tephinet NCD and Injury Mini Grant
Radian Ilmaskal, SKM, FETP Student
Evi Susanti Sinaga, SKM, FETP Student
I Nyoman Purnawan, SKM, FETP Student

2013

National Agency for Narcotics (Badan Narkotika Nasional)
Faculty of Medicine UGM

National Innovation Council
Indonesia-Australia Rotavirus research team for longterm academic-business-government collaboration
Faculty of Medicine UGM, Royal Children Hospital-Melbourne University, Murdoch Children Research Institute and Biofarma

ProSPER.Net-Scopus Young Scientist Award in Sustainable Development, United Nations University, Elsevier dan Alexander von Humboldt Foundation
dr Yodi Mahendradhata MSc, PhD

The best scientist in Ristek-Kalbe Science Award
dr. Susana Hutajulu PhD, SpOG(K), KHOM

International Publication, Tsutsui-Fujino Prize, Japan
dr. Aditya Tri Hernowo PhD

Intellectual Property Rights
Sri Hartini SKep, Ns, MKes
Title: Special spoon for patients with cerebral palsy

Medical device for postpartum haemorrhage
dr. Risanto Siswosudarmo SpOG(K),

Medical device (busi) for anal and rectal dilatation
Dr. dr. Rochadi SpBA(K)

Herbal drugs for antimalarial
Dr. dr. Eti Nurwening Sholikhah Mkes

Diagnostic kits for early detection of Nasopharyngeal Cancer
Dewi Kartikawati Paramita MSi, PhD

First winner, Poster Presentation, Hasanuddin Scientific Fair 2012 “Care, aware, find out and prevent Chronic Kidney Disease”
Andi Ashady FP dan Mahanani Satiti

First winner, Indonesian medical Olympiad 2012, cardiorespiratory branch
Arifah nur Shadrina dan Ivan Wudexi

Indonesia Millenium Development Goals (MDG) Award 2013, held by a special envoy, President of Indonesia.
Smoke-free houses program by the Faculty of Medicine Student Executive Board (BEM). Winner for category maternal and child health for youth organization/academician.

Award for the Most Inspiring Student’s Performance 2013.
Birrul Qodriyyah, in the National student achievement, Directorate General of Higher Education.
Educating Health Professional

We continuously innovate the curriculum to enable our future health professionals to demonstrate the best performance in pursuing their career in a more challenging atmosphere.

Our flagship program: CFHC-IPE (Community and Family Health Care with Inter-Professional Education)

The complexity of health problems together with the growing reality of external challenges in the form of climate change, poverty, globalization, and other environmental problems, requires health professions to work with professionalism. The competencies they need to master must be formulated in a way that graduates of health professions are ready to work in a collaborative manner within a team in the community, especially the family.

The Faculty of Medicine Universitas Gadjah Mada has three undergraduates programmes of health professions i.e: medicine, nursing, and health nutrition. Each student within these programmes have the responsibility to follow the curriculum and interprofessional competencies through CFHC-IPE.
program. This course gives students the experience to practice skills in a real setting, because they directly interact with the family/community, as well as working with different professions.

Besides educational activities, CFHC-IPE also have featured activities in the form of social activities. The social activities led by the CFHC-IPE Team and supported by all civitas academia of the Faculty of Medicine Universitas Gadjah Mada was held in the month of Ramadan by students of the 2nd semester and the 4th semester. These are: health screening at Dusun Sidokerto, Purwomartani, Kalasan, Sleman, Yogyakarta Province, blood sugar checks and book donations in the kindergartens, elementary and junior high school library.

**Competency Based Curriculum (CBC)**

Curriculum renewal is a habit to improve quality. Faculty of Medicine has been revising and renewing the medical education curriculum 2011 in 2013. The reasons are the changes of Indonesian Physician's Competency Standards (SKDI) 2006 into 2012, evaluation of CBC 2011, and feedback from students, graduates, and lecturers.

CBC 2013 is still applied through a block system. The fundamental change is the formulation of learning outcomes that affect the annual theme: the structure and function of the human body (first year), structural and functional disorders of the human body, basic medical practice and research, and identifying family risk factors to disease (second year), treatment of diseases in the human life cycle either in individual, families, and communities (third year), and emergency, disaster management, health systems and elective modules (fourth year).

In CBC 2013, the following is also given as longitudinal material: Basic Clinical Competence Training (BCCT), Community and Family Health Care with Inter Professional Education (CFHC-IPE), Learning Skills, Professional Behavior and Bioethics, Evidence Based Medicine (EBM), General Compulsory Courses (MKWU), and Preparation Thesis.

**Skills lab**

Skills laboratory is an important component in the medical, nursing and nutrition curriculum prior to entering the clerkship program. In this laboratory, we provide mannekins, instructors and clinical programs for students to comprehend along with their other learning activities.

**Developing Soft Skills**

Soft Skills has been integrated in the extracurricular activities and also in the curriculum. The skills are critical for our students to survive in the constantly changing environment. Therefore, currently we provide soft skills development in entrepreneurship and leadership. Each study program delivers their own activities.

**Internationalization of Higher Education**

Internationalization of higher education is important because there are many reasons that everything boils down to a demand for universities to keep pace with advances in science and technology in order to compete globally. Our main innovation for the undegraduate program is the elective program (incoming, outgoing out-country & outgoing in-country) and intercalated master. Incoming and outgoing abroad have started since 2012, while
the outgoing to within Indonesia has started in collaboration with Universitas Nusa Cendana Kupang. Many students are interested to participate in these programs.

Different from the elective courses, the master intercalated program is new for students. This was introduced to students in April 2015. In this program, the Faculty of Medicine collaborates with the University of Sydney, Groningen University, Maastricht University, Vrije University, Tübingen, Erasmus University, Umea University, University College Dublin, and Newcastle University. In 2016, the program will start with registration process. Students could join this program after they already obtain a bachelor degree. They then have a chance to take a master program at the university which in partnership with the Faculty of Medicine. The study length varies between 1.5-2 years. Once they graduated from the master program, they then continue with the clinical rotation program. An at the end of the program, students will receive the title of doctor (dr.) from UGM and a Master degree (MSc/MPH/MRes) from the host university.

Another strategy is to apply for accreditation at the international level for the second time. In 2009 the Faculty of Medicine was accredited by ASEAN University Network-Quality Assurance. Currently, we are applying for international accreditation through PAASCU (Philippine Accrediting Association of Schools, Colleges and Universities).

At the graduate program level, internationalization is also currently pursued. For the first time, the Faculty of Medicine is awarded to manage the International Postgraduate Program on Implementation Research by the WHO Tropical Disease Program. This program will be conducted for four years, both at master and doctorate level. In the First batch, 16 students from 11 countries in South East Asia and West Pacific enrolled. Another opportunity came from the USAID in Jakarta to provide an internship opportunity at USAID office for master students. For the residency education program, students have started to do hospital internship abroad. These opportunities will be further strengthened in the future in collaboration with the partner hospitals/universities.
Research and Publications

**Hirschsprung disease**
A young faculty member, Dr. Gunadi PhD has received the 2014 Young Scientist Kalbe Science Research Award on studying Hirschsprung disease (HSCR: MIM# 142623), the most frequent cause of a functional intestinal obstruction among neonates. Hirschsprung disease is a disorder with genetic heterogeneity. At least fifteen genes have been involved in the development of HSCR with the major susceptibility gene being the receptor tyrosine kinase RET. Recently, a noncoding RET variant in intron 1, rs2435357, is present in ~79% of HSCR patients with either Caucasian or Asian ancestry. Our previous study also reported that ~82% of HSCR cases show that the RET rs2435357 variant and the risk allele (T) are significantly over-transmitted to proband with a transmission rate (t) of 0.96 (Gunadi et al., 2014). The higher frequency of the risk allele (T) (0.82 vs. 0.58) and its transmission rate (0.96 vs. 0.82) in our population than those of Caucasian ancestry might be associated with the greater incidence of HSCR in the Indonesian population than Caucasian (Karina et al., under review). This association study was conducted in developed areas using high-throughput TaqMan PCR assay. Although the TaqMan method is less time-consuming, it requires a special more expensive PCR machine and a highly skilled analyst. We have developed the PCR-RFLP method as a reliable and affordable technique for genotyping of RET rs2435357 polymorphism in developing countries (Gunadi et al., under review).
A roadmap to discovery...

In ten years time, where are we heading? How are we going to build our excellence and dedicate our resources? Through series of intense discussion with internal and external stakeholders, we have formulated a research roadmap and five strategic initiatives as a guidance for this Faculty to move forward. The roadmap identifies two umbrella themes with three platforms across the themes pictured above.

The roadmap is accompanied by five strategic initiatives that will be implemented by the Faculty. These are: to strengthen research atmosphere, to improve quality of research proposal and research integrity, to increase productivity of doctoral staff and improve academic writing skills among the junior staff, to strengthen research management and to accelerate journal publications. Each strategic initiative will consist of several activities.

Research and international publications are going stronger as evident from the increasing trend shown. International funding continues to be the main source of funding for research (73.7%). Internal faculty funds allocated for research have also increased more than two folds in 2015 compared to year 2013.
Publication

The current atmosphere drives faculty members and researchers to produce more scientific publications, particularly in the international journals. Through publications, this Faculty will demonstrate its presence in the international world. Thanks to our civitas academia, the number of international journal publications has been steadily increasing for the last five years, with increased number of journal publications cited in Scopus. To accelerate the number, strategies and activities are put in place as a support system to create a better atmosphere to boost productivity of the faculty members-researchers in writing journal publications. One challenging journey is to have one Faculty journal (Journal of the Medical Sciences) indexed under Scopus.

In 2014, dr Sumadi Lukman Anwar PhD from the Department of Surgery has been awarded the best publication by the Rector of UGM for his publication at the Journal of Pathology 2014 (impact factor 7.4). He and his collaborator at the Hannover Medical School Germany have been working on epigenetic dysregulation particularly DNA methylation in cancer. They have found several candidates for clinical biomarker using DNA methylation in liver and breast cancer.

Anwar SL et al. have delineated a novel mechanism of RB1 inactivation through genomic imprinting dysregulation. RB1 (Retinoblastoma Gene) is a very important tumor suppressor gene and is commonly inactivated in cancers. In human hepatocellular carcinoma, the fifth most common cancer and the third leading cause of cancer mortality worldwide, loss of DNA methylation in RB1 imprinted locus resistance is the population of ovarian cancer stem cells (CSC). He also found that the Btk signaling is a very important regulator for ovarian CSC maintenance. Therefore, the elimination of ovarian cancer is a promising approach to solve the chemoresistant cells. A Btk inhibitor has been developed and studied to eliminate ovarian cancer stem cells. Application of Btk inhibitor could improve platinum sensitivity. The drug is now further undergoing clinical trials sponsored by a well-known pharmaceutical company. The novel approach has been appreciated by Ministry of Health and Welfare of Taiwan in 2014 as The Best Research of The Year (third place).
Many dreams come true...

For lab researchers, many dreams come true. A new laboratory is opened and functioning in early 2016 in Radiopoetro Building. This laboratory is equipped with more advanced equipments and a management system is already in place for researchers to access these equipments. We aim to provide a shared facility laboratory which is standardized and safe and also to improve the animal laboratory to support our researcher and lab technician better in the future. Laboratories are supported with biosafety training and practices, Good Clinical Laboratory Practice, and accreditation by the national accreditation committee.

Another research investment is the development of a biobank system for research, started with a retrospective system. Currently a database system has been developed retrospectively to enable researchers to store and retrieve the samples in an organized manner. We hope to be able to develop a prospective system in collaboration with our teaching hospital in the near future. Through networking with BCNet, Lifelines, IARC and NCI, we expect to broaden the network of Indonesian institutions working on research biobank system. A similar system development is also underway for researchers interested in using the biopaleoanthropology laboratory.

In addition to the biobanking system, opportunities for faculty members-researchers to conduct research with large sample size are made possible with implementation of Health Demographic and Surveillance System (HDSS) in Sleman. Currently, not only routine surveillance has been undertaken, several embedded studies have been performed using the HDSS sample frame. The chances of getting published in the international journals, hence, are expected to be increased.

Last but not least, to maintain the spirit of innovation and improvement, the Medical-Health Ethical Research Committee has launched the online submission system for ethical clearance. A new training aimed to strengthening postdoctoral training on research leadership and management was also carried out in collaboration with the LH Martin Institute, University of Melbourne. Twenty participants with PhD qualifications graduated in the last 5-6 years joined this training and it is expected that participants will be able to form a multidisciplinary research group and develop a joint proposal. This training together with the existing courses on Good Clinical Practice, Good Clinical Laboratory Practice, Good Health Research Practice, Ethical Clearance will hopefully strengthen our human resources.
In our new mission, we firmly state that Faculty of Medicine is committed to improve health status of the community through education, research and community service. Therefore, activities to serve the community has been increasing for the last three years reaching 312 activities in 2015 (or nearly 1 community service activity per day). A significant amount of funding has also been dedicated for communicate service.

Number of community activities conducted 2013-2015

Funds received (IDR)

Funds received for community service activities, 2013-2015
Eye examination and free spectacles for school children and community at Giri Panggang, Tepus, Gunung Kidul district.

Health education for elderly in Karangbendo, Banguntapan, Bantul district to improve knowledge on quality and side effect of herbal medicine.

Training to overcome depression and reproductive health problems for junior high school students at SMP Negeri 2, Cangkringan, Sleman.

Health education and medical examination for community in East Pereng, Prambanan, Klaten, carried out by faculty member from the Biochemistry Department (Nov 2015).

Faculty of Medicine UGM does not intend to become an ivory tower which has all the knowledge but unreachable to others. Instead, we adopt the philosophy of a water tower, with the water as a symbol of knowledge, shared to the rests of the Indonesian community and the world who need the information. Initiated by Prof Laksono Trisnantoro, many developments have occurred in the past two years to create websites containing specific topics of interest to reach general audiences and community of practice. Currently we have 33 websites specializing in different topics.

Further development of this “menara air (water tower)” movement leads to the creation of a knowledge and information “water” canal providing specific information according to the needs of the users. These range from guest lectures, blended-learning courses, research, seminar, publication, policy brief, news, up to music and poetry reading. Through this initiative, we dedicate our knowledge and learning experience for those who are unreachable and have limited access to knowledge. Knowledge should flow to all...

Menara Air: Faculty of Medicine as the water tower
Stronger Collaboration

We continue strengthening our collaboration with partners from within Indonesia and other countries. This partnership increases our performance and broadens opportunities for student exchange, guest lectures, joint research and publications, access to key networking and many others. In year 2015, we have 93 students undertaking outgoing electives/conferences abroad, 118 incoming electives from other countries and 139 collaborators visiting our Faculty. Our collaborators also give expert lectures for faculty members and students, and the number is increasing every year, i.e. from 26 in year 2013 to 52 in year 2015.

We thank our partners and hope to strengthen mutual collaborations in the future.
UGM and Yogyakarta are attractive for foreign students. The setting has a strong cultural orientation combined with educopolis atmosphere. Every year, the number of foreign students are increasing.
Alumni Association

Dr dr Sugiri Syarief MPA was elected as the Chair of UGM alumni association at Faculty of Medicine. The core team consists of: dr Yanri Wijayanti Subronto SpPD PhD (Secretary), drg Fara Silvia Yuliani MSc (Co-secretary), Dr dr Lientje Setyawati Maurits MS SpOK (Treasury), Dr rer nat dr BJ Istiti Kandarina (Co-Treasury), dr Krishnajaya MS (Vice chair I), dr Hasto Wardoyo SpOG (Vice chair II), dr M Syafak Hanung SpA (Vice chair III) and Dr Budiono Santoso PhD SpFK (Vice chair IV).

In year 2015, four seminars were organized by Kagamadok. The seminars discussed the following issues: closing the gap of MDG, the potential of intervention radiology research and innovation for humanity and gratification for doctors.

In addition to alumni organization, parents association of the undergraduate students also play a pivotal role. Their roles vary from giving scholarship, assistance to students in critical situation, to providing physical facilities for student dormitory at affiliated hospitals.
Our Main Hospital Network

Dr. Sardjito teaching hospital
Location: Yogyakarta
700 beds
Class A hospital, referral for Yogyakarta and South part of Central Java
JCI accredited for Academic Medical Centers (2014)
KARS (Indonesian National Accreditation Body for Hospitals) accredited for Paripurna (most comprehensive) (2014) and Teaching hospital (2011)

UGM hospital
Location: Yogyakarta
123 beds
Type B hospital, secondary care
Banyumas District Hospital
Location: Banyumas, Central Java
414 beds
Class B hospital, secondary care
KARS accredited for Class B teaching hospital

Dr Soeradji Tirtonegoro hospital
Location: Klaten, Central Java
410 beds
Class B hospital, secondary care
KARS accredited for Class B (2012) and teaching hospital (2013)
UGM hospital, formerly known as UGM academic hospital, was established in 2012. As a part of Universitas Gadjah Mada, UGM hospital is committed to provide health care and to fulfill three mandates in higher education: education and research, and community service. Our vision is to become a hospital that provides healthcare, education, and research with excellence and world class standard, self-reliant, and respect in serving the interest of society.

The hospital is striving to build physical structure and to improve the quantity and quality of human resources. Different strategies (in-house and off the job training as well as study visits) are used in various aspects, ranging from medical record management to upgrading competence, from neonatal resuscitation to...
laboratory service efficiency. In its early stage, UGM hospital has already achieved some milestones, such as opening the integrated surgery cluster, establishing ICU/NICU/PICU, attaining a formal status as type B hospital, initiating cooperation with the national insurance body (BPJS) and expanding its inpatient wards.

In education and research, RS UGM has been continuously improving its services, by making progress in administration, facilitating educational activities, conducting research and library collection, among others. To ensure the quality of their education, human resources UGM hospital have been certified as clinical instructors. The system of clinical education in this hospital is inter and trans-professional. Students from the Faculty of Medicine as well as other faculties and schools have been sent to UGM hospital to gain practical experiences.

Health care services in UGM hospital is delivered in integrated health care clusters with multi-professional teamwork. Within three years of its operational, there has been an increasing trend of hospital visits, in outpatient clinics, inpatient, emergency room, as well as number of surgery performed. For illustrations, the total number of patient visits in December increases three folds from the previous years. In the future, UGM hospital plans to develop centers of excellence in the field of neuroscience and behavior, integrated renal care, and child growth and development. Below, we illustrate few development in specific services.

**Radiology Unit**

Starting with only X-ray and two dimension of ultrasound machines, the service in Radiology has now been improving with additional facilities such as mobile X-ray, C-arm radiography and fluoroscopy, 4D ultrasonography and Doppler, transcranial doppler, bone mineral density, extracorporeal shock wave lithotripsy (ESWL), and multi-slices CT scan.

**Physiotherapy services**

As a difable friendly hospital, the physiotherapy unit in UGM hospital is served by one specialist in rehabilitation medicine, three physiotherapists, one occupational therapist, one speech therapist and one orthotic and prosthetic therapist to provide both outpatient and inpatient services. The staff work closely with medical, nursing and other allied health professionals. The assessment is performed comprehensively from establishing the diagnosis, giving individualized treatment, and evaluating the response.

**Hemodialysis Unit**

UGM hospital is equipped with 16 hemodialysis machines and more than 50 patients have received hemodialysis care. This figure is increasing over time. In the near future, the hospital will also provide peritoneal dialysis.
Dr. Sardjito Hospital

Trusted partner for health

Dr. Sardjito is the main teaching hospital for the Faculty of Medicine UGM. The history of Dr. Sardjito hospital is closely related to the establishment of the Faculty of Medicine UGM. The hospital was established through the Decree of Ministry of health in 1974 and was officially opened in 1982 by the President of Republic Indonesia. As a teaching hospital, Dr. Sardjito hospital provides the learning grounds for the undergraduate and post graduate students to master clinical skills.

The vision of Dr. Sardjito hospital is to be the national academic and referral hospital with an international standard in 2019. To achieve its vision, the missions are to give excellent, internationally-standardized, and affordable health services to all society through corporate and professional accountability development, to provide education and training in health sector to generate qualified human resources, to conduct research and development in advancing science, medical technology and health sectors with a global insight, and to improve employees’ welfare.
Dr. Sardjito hospital has undergone many amalgamation, reconstruction, and expansion processes up to now. As the largest and tertiary care hospital, Dr. Sardjito hospital functions as a referral hospital for Yogyakarta Special Province and the Southern part of Central Java. With 750 beds, 23 clinical departments and 29 units, the hospital offers a full range of specialty and sub-specialty care. The hospital is committed to deliver patient-centered high quality care through ensuring patient safety and implementing integrated care. Currently, the hospital has selected the following areas as excellent services: Integrated Heart Center, International Cancer Center, geriatric care, and organ transplant.

Integrated Heart Center

The heart center was initiated in 2004 by the Department of Cardiology. Over the years, the centre has been developing an integrated centre for both children and adult with heart problems, involving multidisciplinary team and supporting units. The Centre provides various clinical services such as echocardiography, holter monitor, cardiac catheterization, cardiac surgery and Intensive Cardiac Care. The cardiac arrhythmia service at RSUP Dr. Sardjito is one of the featuring services, in which Electrophysiology Laboratory is available.

International Cancer Center

A new building has been dedicated for the International Cancer Center (ICC) to ensure better care and support for those affected by cancer, which has steadily been increasing. ICC involves all relevant health professionals as an integrated multidisciplinary team to provide comprehensive care from prevention, screening, diagnosis, treatment, rehabilitation up to provision of end-of-life care. Care delivered at ICC is also based on best available evidence and supported by a strong research team with many international publications.

Liver Transplant

November 2015 marked the first living-donor liver transplant successfully performed at Dr. Sardjito hospital, with the supervision from Kyoto University Hospital team. Dr. Sardjito hospital is looking forward to becoming the national referral hospital for liver transplant and routinely performing the surgery for patients in need of transplant.

Awards

Dr. Sardjito hospital has received many national and international recognitions. One great achievement from the Joint Commission International accreditation as Academic Medical Center in 2014. Other awards includes:

• A accreditation status of academic hospital granted by the Ministry of Health
• Accredited by the Indonesian Hospital Accreditation Commission
• Awards from the Indonesian Hospital Association Center: awards in Management of Government Project, Human Resources Development Project, Clinical Service Improvement Project, and Patient Safety Project.
• Awards from Ministry of Environment: Blue certification, signifying its compliance to environmental standard.
Human Resource

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total No. of Academic Staff</td>
<td>741</td>
<td>744</td>
</tr>
<tr>
<td>Full-time, civil servant</td>
<td>210</td>
<td>232</td>
</tr>
<tr>
<td>Full-time, UGM employee</td>
<td>90</td>
<td>71</td>
</tr>
<tr>
<td>Clinical teachers from Sardjito hospital</td>
<td>161</td>
<td>159</td>
</tr>
<tr>
<td>Clinical teachers from affiliated hospitals</td>
<td>203</td>
<td>205</td>
</tr>
<tr>
<td>Retired</td>
<td>77</td>
<td>77</td>
</tr>
<tr>
<td>Academic staff qualifications</td>
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<td></td>
</tr>
<tr>
<td>Professor</td>
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<td>30</td>
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<tr>
<td>Associate professor</td>
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<td>64</td>
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<tr>
<td>Senior lecturers</td>
<td>123</td>
<td>154</td>
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<tr>
<td>Junior lecturers</td>
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<td>33</td>
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<tr>
<td>Teaching staff</td>
<td>399</td>
<td>405</td>
</tr>
<tr>
<td>Total No. of Support staff</td>
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<td>530</td>
</tr>
<tr>
<td>Full-time, civil servant</td>
<td>176</td>
<td>176</td>
</tr>
<tr>
<td>Full-time, UGM employee</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Non-permanent UGM employee</td>
<td>273</td>
<td>273</td>
</tr>
<tr>
<td>Contract UGM employee</td>
<td>46</td>
<td>46</td>
</tr>
</tbody>
</table>

**New Professors**

We are proud to have three new-female Professors in 2014-2015: two from the Department of Pediatrics (Prof dr Madarina Julia MPH, PhD, SpA(K) Consultant in Paediatric Endocrinologist and Prof Dr dr E. Siti Herini SpA(K) Consultant in Paediatric Neurologist) and one from the Department of Obstetrics and Gynecology (Prof dr Ova Emilia SpOG, MMed). Congratulations!
Congratulations to Our New PhDs (2014-2016)

• Dato’ Sri Prof Dr(HC) Tahir MBA - Universitas Gadjah Mada
• dr. Sri Awalia Febriana, M.Kes., Sp.KK., PhD - University of Groningen Netherlands
• Dr. Dra. Sri Herwiyanti, M.S - Universitas Gadjah Mada
• Dr. dr. Mubasysir Hasanbasri, MA - Universitas Gadjah Mada
• Christianie Effendy, S.Kp., M.Kes., Ph.D - Radboud University Nijmegen Netherlands
• Dr. dr. Titis Widowati, SpA(K) - Universitas Gadjah Mada
• Dr. dr. Wahyudi Istiono, M.Kes - Universitas Gadjah Mada
• Dr. dr. Yusmein Uyun, Sp.An.KAO - Universitas Gadjah Mada
• Syahirul Alim, S.Kp. M.Sc., Ph.D - Kobe University Japan
• Dr. Ibrahim Rahmat, Skp., Spd., M.Kes - Universitas Gadjah Mada
• dr. Muhammad Ary Zuchia, Ph.D - Taipei Medical University. Taiwan
• Dr. dr. Ahmad Asmedi, Sp.S(K)., M.Kes - Universitas Gadjah Mada
• Dr. dr. Cempaka Thursina Srie Setyaningrum, Sp.S(K) - Universitas Gadjah Mada
• Dr. dr. Supomo, Sp.B, Sp.BTV - Universitas Gadjah Mada
• Dr. dr. Neneng Ratnasari, SpPD,K-GEH - Universitas Gadjah Mada
• Dr. dr. Tri Ratnaningsih, Sp.PK(K).,M.Kes - Universitas Gadjah Mada
• Dr. Siti Helmyati, DCN., M.Kes - Universitas Gadjah Mada
• Dr. dr. Setyo Purwono, M.Kes., Sp.PD - Universitas Gadjah Mada
• Dr. dr. Siti Muchayat Purnamatingsih, MS., Sp.PK - Universitas Gadjah Mada
• Dr. Dra. Sumarni, MSI - Universitas Gadjah Mada
• Dr. dr. Ishandono Dachlan, M.Sc., Sp.B., Sp.BP-RE(K) - Universitas Gadjah Mada
• Dr. dr. Bambang Hastha Yoga Legowo Budiman, Sp.KJ(K) - Universitas Gadjah Mada
• Dr. dr. Andreasta Meliala, DPH., M.Kes., MAS - Universitas Gadjah Mada
• Dr. dr. Dwi Cahyani Ratna Sari, Sp.PA(K) - Universitas Gadjah Mada
• Dr. dr. Rul Afiyah Syarif, M.Kes - Universitas Gadjah Mada
• Dr. dr. Budi Pratiti, Sp.KJ - Universitas Gadjah Mada
• Dr. dr. Dicky Moch Rizal, Sp.And, M.Kes - Universitas Gadjah Mada
• Sri Warsini, S.Kep, Ners., M.Kes - James Cook University
• Lely Lusmilasari, S.Kp., M.Kes., Ph.D - Chulalongkorn University Bangkok Thailand
• dr Hanggoro Tri Rinonce, PhD - Kobe University Japan
• dr Vina Yanti Susanti MSc, SpPD, PhD - Gunma University Japan
• dr Tri Budi Hartomo PhD - Kobe University Japan
• dr Royhan Rozqie PhD - University of Tokyo Japan
• dr Dian Kesumapramudya Nurputra PhD - Kobe University Japan
• Dr dr Y. Widodo Wirohadidjojo SpKK(K) - Universitas Gadjah Mada, Indonesia
• Intansari Nurjannah SKp, MNSc, PhD - James Cook University, Australia
• Dr. dr Niken Trisnowati MSc, SpKK - Universitas Gadjah Mada, Indonesia
• Dr Lily Arsanti Lestari STP, MP - Universitas Gadjah Mada, Indonesia
• Dr dr Rina Triasih SpA - University of Melbourne, Australia
• dr. Muhammad Gahan Sasmito, PhD - Kobe University
• Dr. Hery Suseani Pangastuti, S.Kp., M.Kes - University of Indonesia
• Dr. dr. Emy Huriyati, M.Kes – Universitas Gadjah Mada
• Dr. dr. Irianiwati, Sp.PA.(K) – Universitas Gadjah Mada
• Dr. dr. Sugung Rai Indrasari, M.Kes., Sp.THT-KL(K) – Universitas Gadjah Mada

Retired Faculty Members and Staff (2014 and 2015)

• dr. Risanto Siswosudarmo, Sp.OG(K), 1976 - 2015
• dr. Bambang Budiono, SU, 1979 - 2015
• dr. Achmad Djunaidi, S.U., AIFM, 1979 - 2015
• Lilik Haryani, 1986 - 2015
• Drs. Suyitmo Legowo, 1992 - 2015
• Supriyadi, 1981 - 2015
• Chimay Rusda, 1993 - 2015
• Yusniarti, 1986 - 2015
• Murdaningsih, 2005 - 2015
• dr Prijono Tirtoprodjo SpPA(K) (Anatomic Pathology, 1975-2014)
• dr Edy Moeljono SpRad (Radiology, 1980-2014)
• dr Damodoro Nuradyo SpS(K) (Neurology, 1980-2014)
• dr Hartono SpM(K), Eye, 1976-2014
• Susi Hadidjah SH, MH (Medical Forensic, 1982-2014)
• dr Setyawati SpPK(K) (Clinical Pathology, 1979-2014)
• dr B Sunoko SpB, KBTKV (Surgery, 1977-2014)
• Dendeng
• Sarmidi
In Memoriam: We are indebted to the contributions they have made to this Faculty:

2015
- Prof. Dr. dr. Noerhajati Soeripto, DTM&H (1959-2002)
- Dr. Sudirman Sastrodiprodjo, Sp.KK(K) (1969-2001)
- Siti Khasanah, S.IP (Support staff, 1993-2015)

2014
- Dr dr Djoko Prakosa (Anatomy, 1973-2013)
- Prof Dr dr Salugu Maesadjti Tjokronegoro SpRad(K)

2013
- Fitriana Murniati SH, MH (Medical Forensic, 1997-2013)
- Dr Pungky Ardani Kusuma SpA (Pediatry, 1985-2013)
- Dr Kismardhani MSc, SpPK(K) (Clinical Pathology, 1990-2013)
Campus Atmosphere and Facilities

Sport facility at the Faculty of Medicine:
Basketball court

- Charity Culture Night 2015
- "Psikoart" by the Nursing Student Association (right above)

While resting after joining the Medika Funbike, participants may enjoy the Medika Idol competition. This is a singing competition (either Jazz or Dangdut track of music) with plenty of door prize gifts prepared.

Winner of Dangdut Medika Idol singing competition in 2014. Graduate students from Public Health department.

Our professional bikers: Dr dr Sudadi (Anesthesiologist) and dr Hendro Wartatmo (Gastroenterologist Surgeon). They cycled from Bandung to Yogyakarta (400kms) during the Bluxpit event, 65th Anniversary of UGM. (Left)
A collaborative concert: Visiting professor from Belgium, UGM faculty member and medical students

Dr. dr Budi Yuli Setianto Sp PD(K), Sp JP(K) (Consultant Internist and Cardiologist) spontaneously came to the front and give a special song to the audience.
To provide a more comfortable space for students, faculty members and teaching-learning activities, a new building called the Graduate Building will be built in 2016. Supported by Tahir Foundation, the building will consist of two connected towers eight floor each.
Broader use of GaMeL (Gadjah Mada e-Learning platform) for the undergraduate and postgraduate program, including the evaluation purpose of the clinical rotation.

Library is the heart of a University. The library of the Faculty of Medicine has a large collection of books, journals, digital collection and online databases. In addition to these collection, it is also equipped with IT facilities to enable video conferencing and life streaming, computer-based test examination with more than 100 computers.
### Finance

#### ACTUAL INCOME

<table>
<thead>
<tr>
<th>Source</th>
<th>2014 (in IDR)</th>
<th>2015 (in IDR)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government fund</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Civil servant salary and benefits</td>
<td>36,005,623,356</td>
<td>47,757,639,985</td>
<td>19.48%</td>
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<tr>
<td>Operational fund for state university legal entity (BOPTN)</td>
<td>669,475,500</td>
<td>4,858,884,044</td>
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</tr>
<tr>
<td>Grant: World university ranking, Center for Academic Policy, Strengthening collaboration, Alumni</td>
<td>0</td>
<td>2,605,000,000</td>
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</tr>
<tr>
<td>Public fund</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Education</td>
<td>177,338,702,854</td>
<td>197,454,773,961</td>
<td>80.52%</td>
</tr>
<tr>
<td>Non-education</td>
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<tr>
<td>ACTUAL EXPENDITURE</td>
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<tr>
<td>Government budget</td>
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<td>240,712,686,946</td>
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<td>Civil servant salary and benefits</td>
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<td>Operational fund for state university legal entity (BOPTN)</td>
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<td>Public fund</td>
<td>133,613,854,249</td>
<td>194,469,717,919</td>
<td>76.63%</td>
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</table>
PRESENT PERIOD

Let’s Build a Brighter Future...

With our commitment, we believe we can make changes to make a brighter future for our students, for our community and for all of us...

Faculty annual meeting with the new department’s chairs taken place in Solo 2015. All UGM Vice Rectors were present in this meeting.
DEPARTMENT PROFILE

70 YEARS ADVANCING THE NATION’S HEALTH
Department of Anatomical Pathology

Center of Excellence in Pathological Diagnosis, Education, and Research

1. Immunohistochemical staining shows HER2 expression of human breast cancer
2. Chromogenic in situ hybridization (CISH) examination reveals HER2 amplification
3. Our technician performs real-time PCR examination for supporting public service and research

Profile

Department of Anatomical Pathology was established in 1952, chaired by dr. M. Bambang Soetarso. At that time, the department was still merged with the Department of Legal Medicine, led by dr. M. Bambang Soetarso and dr. Moch. Saleh. These two departments were the separated in 1954, but still located in the same building in Mangkubumen. Three years later, the departments were moved to Pugeran Hospital and situated in a multi-floor building. This department was located in the ground floor and the second floor was partly used for practical session and museum.

Along with the relocation of Faculty of Medicine, in June 1983 the Department of Anatomical Pathology was moved to Sekip and placed into a new two-storey building. After the construction of Radiopoetro Building was finished in 2004, the department was relocated once more to this new building and located on the fourth floor. As a tribute for his major contribution in science, the name of Prof. dr. M. Bambang Soetarso is used as the name of a lecture room in the second flood of the Auditorium building.

Many achievements have been obtained for the last 70 years. The first cancer registry in Indonesia was pioneered by dr. Soeripto by doing population-based registry in Srandakan, Bantul, in 1980-1983. The department also sent some staff abroad to upgrade their knowledge and skills in specific fields. Dr. Harijadi took a short course on nasopharyngeal cancer in The Netherlands and France. Dr. FX Ediat Triningsih took clinical autopsy courses in Singapore, in situ hybridization course in England, and hygiene and tropical medicine in Japan. In 1977, Dr. Prijono Tirto Projo took fine needle aspiration biopsy (FNAB) course in Antonie van Leeuwenhoek University and Leiden University, The Netherlands. In 1985, Dr. Totok Utoro, obtained his DMed Sci degree from Kobe University, Japan. The knowledge and skills obtained abroad were expanded continuously into routine and semi-routine procedures in providing service and research.

Nowadays, the Department of Anatomical Pathology has become one of centers of excellence in pathological diagnosis, education, and research in Indonesia. Along with the innovation from histomorphology era to molecular-genetic era, the department always keeps up and takes part in scientific development of medical technology. In pathological diagnosis, the department...
provides many molecular-genetic tests using immunohistochemistry, in situ hybridization (ISH), conventional polymerase chain reaction (PCR), and real-time PCR technique, other than routine procedures for histomorphology and cytomorphology. In 2015, the department has become one of centers of excellence in immunohistochemical examination in Indonesia.

Despite actively participating in graduate student program, the department also offers education program to become anatomical pathology specialist and subspecialist. The department currently nurtures 19 residency doctors. That number increases steadily by year. The department also provides training for anatomical pathology laboratory analysts from other regions in Indonesia.

For researchers from other institutions, we provide services, such as paraffin block making, routine HE staining, histochemical staining, immunohistochemical staining, PCR, and result interpretation.

In order to improve diagnostic services, education, and research, the department develops international collaborations. Currently, the department is collaborating with Kobe University, Kyoto University, Hyogo University Japan, and Universitair Medisch Centrum Groningen, The Netherlands for joint research and knowledge-technology transfer.

service - Research Excellence Area

- Pathological Diagnosis
- Immunohistochemical staining using various antibodies: cytokeratin, vimentin, ER, PR, HER2, LCA, CD20, CD3, CD1a, desmin, S100, chromogranin, synaptophysin, NSE, Ki67, and many others
- In situ hybridization for breast cancer
- Liquid based cytology
- PCR and real time PCR examination
- Genetic analysis for colorectal and lung cancer (EGFR and ALL RAS mutation)
- HBV and HCV detection
- HPV genotyping
- Education
- Accredited “A” for education of specialist physician
- Research
- Mutation analysis in dystrophin gene of Duchenne/Becker muscular dystrophy
- Role of P13K and RAS pathway in astrocytoma
- BRCA-1 mutation in breast cancer
- Molecular subtype of breast cancer
- Clonality test and chromosomal translocation in lymphoid neoplasm
- EGFR and ALK mutation in lung cancer
- ALL RAS and RAF mutation in colorectal cancer
- C-kit mutation in gastrointestinal stromal tumor
- Molecular epidemiology of HBV, HCV, GBV-C, and TTV

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1952</td>
<td>Department of Anatomical Pathology and Legal Medicine established</td>
</tr>
<tr>
<td>1954</td>
<td>Department of Anatomical Pathology established as a separate department</td>
</tr>
<tr>
<td>1983</td>
<td>Moved to UGM campus in Sekip</td>
</tr>
<tr>
<td>1995</td>
<td>Immunohistochemical staining examination started</td>
</tr>
<tr>
<td>2004</td>
<td>Laboratory in Anatomical Pathology established in Radiopoetro Building</td>
</tr>
<tr>
<td>2010</td>
<td>ISH examination conducted</td>
</tr>
<tr>
<td>2012</td>
<td>PCR examination started</td>
</tr>
<tr>
<td>2014</td>
<td>Liquid based cytology started</td>
</tr>
<tr>
<td>2015</td>
<td>Center of excellence in molecular examination for breast cancer. Real-time PCR examination started</td>
</tr>
<tr>
<td>2016</td>
<td>HPV genotyping test started</td>
</tr>
</tbody>
</table>

Chair’s Message

Pathologists play an important role in determining definitive diagnosis. The advances in medical technology have changed the way to diagnose diseases. In the era of classical histomorphology, diagnosis is determined based on morphology on routine hematoxylin and eosin staining only. Now, in the era of molecular pathology, solely morphological-based diagnosis is insufficient because diseases, particularly neoplasms, have differences in genetic profile influencing their behaviour. Before performing targeted therapy to specific genetic mutations in neoplasm, it requires the integration of gene-based diagnostic tests into surgical pathology.

Department of Anatomical Pathology continues to develop new techniques and equipments in order to improve the accuracy of diagnosis in accordance with scientific developments and the patient’s needs.

Our vision is to become a center of excellence in pathological diagnosis services, comprehensive and innovative in education, research, and health services in Indonesia. We are very dynamic and open to the increasing demands of new knowledge and development of the latest medical technology.

Dr. dr. Irianiwati, Sp.PA(K)
Department of Anatomy

Starting an innovation...

Our first innovation emerges: Atlas in Musculoskeletal and Cardiovascular system, strain gauge sensor-implanted gynecologic bimanual examination mannequin and Western blot result using our own device.

Story behind the picture

We are proud of our “first time innovation”. The Atlas of Anatomy (A) was produced based on dissection in Musculoskeletal and Cardiovascular System. This atlas has attractive appearance and is supported by a 3600 rotational software. This is the first atlas using such kind of approach from a cadaver. The second innovation is a new Gynecologic bimanual examination mannequin implanted with Strain Gauge Sensor at palpation site (B). Using this approach student and examiner could obtain specific responses during clinical session in skills laboratory. The third picture is our first Western blot result, which still requires improvement to be perfect.

Profile

Department of Anatomy (previously called the Department of Anatomy, Embryology and Anthropology) was established in 1946 in Klanten and chaired by Prof Drs R. Radiopoetro. In 1949, the Department of Anatomy was moved to Mangkubumen and in 1980, the department moved once again to a new integrated campus in Sekip.

This department has a long journey in “Tri Dharma” which consists of education, research and public service. In education, Anatomy as a main basic science in medicine plays an important role in the development of curriculum and learning method. In the old days, students had the opportunity to do cadaver dissection in cadaver. Nowadays,
Chair's Message

Anatomy as a basic science in Medicine is regarded as a static science with no room to flourish. This situation challenges us to make changes. Innovation becomes the best solution to create anatomy as an attractive science during learning-teaching activities, research and community services. This year is the best time for us in the Department of Anatomy to take a step forward in techno-education innovation, translational research with disease-related model experiments and clinically oriented approach for anatomy science. We hope we can drive all resources to create innovative, creative and challenging activities in learning and researching anatomy. Let’s learn and share together!

Dr. dr. Dwi Cahyani Ratna Sari, MKes, PA(K)

prosection method is applied in teaching anatomy. Problem Based Learning (PBL) and Competence Based Curriculum (CBC) give influence in driving innovation in Anatomy. Almost all academic staff always contribute to curriculum development and become Block Coordinator Team in this PBL era. Basic anatomy is given for the first year student, continued with clinically oriented anatomy approach for the second and third year medical student. This department also produces many learning resources such as books, atlas, mannequin and replicas. Beyond Universitas Gadjah Mada, the Department of Anatomy also pioneers innovation in learning-teaching system in other Faculties of medicine in Indonesia, such as in the University of Hasanuddin, University of Sriwijaya, University of Diponegoro, Universitas Negeri Surakarta, University of Syah Kuala, and University of Lambung Mangkurat, Universitas Muhammadiyah Yogyakarta, Indonesian Islamic University and University of Tadulako. This department also contributes to postgraduate and and clinical specialist education, such as in neurology, oral surgery, forensic, obstetrics and gynecology, ear-nose-throat, and surgery.

Department of Anatomy has been internationally recognized as a research center in Anthropology, especially with the presence of Biopaleoanthropology laboratory led by Prof. dr. T. Jacob. Other faculty members, such as Prof. Soemijati Ahmad, dr Rismanto, dr Suryadi, dr Mansyur Romi conducted embryology and genetic research. Prof Soedjono Aswin established neuroanatomy and neuroscience research which is now continued by Dr Dwi Cahyani Ratna Sari. Prof Soebijanto, Dr. A. Pratiknya and Dr Djoko Prakosa established macroanatomy science, continued by dr. Dwi Yatmo and dr Santosa Budiharjo. Dr Djoko Prakosa was pioneering the development of Bengkel Anatomy to provide medical learning resources in the application of anatomy science. Recently, Molecular medicine, translational research and clinically applied anatomy are being conducted at Department of Anatomy, initiated by the younger staff such as, dr Arfian, dr Junaedy, dr Dian Prasetyo and dr Yana. Translational research and molecular medicine also become essential development in anatomy research. Development of disease model based on anatomical science combined with molecular approach poses a great challenge to improve research in Anatomy department, Faculty of Medicine.

Community service activities are carried out through implementation in fitness and renal health awareness programs, anatomy museum exhibition, health counseling and promotion, and collaboration with other professional and non-government organizations.

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Atlas of Anatomy produced</td>
</tr>
<tr>
<td>2013</td>
<td>Microanatomy Laboratory developed to support anatomy science related research using immunostaining, genomic and proteomic methods.</td>
</tr>
<tr>
<td>2014</td>
<td>Mannequins developed, combining strain gauge sensor for gynaecological and digital rectal examination.</td>
</tr>
<tr>
<td>2015</td>
<td>Atlas of Anatomy with 360 degrees rotational approach software developed for Cardiovascular-respiratory system.</td>
</tr>
</tbody>
</table>
Department of Anesthesiology and Intensive Therapy

Opening The New Horizon on Safe Anesthesia

Story behind the picture

November 11, 2015 was unforgettable. The first liver transplant surgery was commenced on that date, with three Anesthesiologists (one from Kyoto University Hospital and two from the department of Anesthesiology and Intensive Therapy Faculty of Medicine UGM-Dr Sardjito hospital) worked on the Recipient and two anesthesiologists working on the Donor. After 16 hours of surgery, Adelia was finally brought to the Pediatric Intensive Care Unit and extubated two days after the surgery. That experience was monumental. Many other patients like Adelia are still waiting for their turn and we hope to able to provide care for help them in the near future.

Profile

Our vision is to be an excellent center of education, research and service in Anesthesia in the Asean region by 2019. To achieve this, our mission are to offer innovative specialist education in Anesthesia and professional guidance for the anesthesist to produce quality human resources, to maintain the quality outcome of anesthesiologist through an educational process that fits to the national curriculum standards, to promote community service in the form of training and consultancy to meet the health needs of the community, to develop curriculum together with all centers of Anesthesia Education in Indonesia based on the development of science and technology, and to develop research.

Currently we have eight divisions in the Department of Anesthesiology and Intensive Therapy, including
Intensive Care, Neuroanesthesia, Pediatric Anesthesia, Obstetric Anesthesia, Regional Anesthesia, Pain Management, Emergency and Cardiovascular Anesthesia. Over the last six years five staff have completed their doctoral degree, in the field of neuroanesthesia, obstetric anesthesia and cardiovascular disease.

Our center has been appointed as a Center of Obstetric Anesthesia for consultant education program, has now entered the second year. Starting from a hospital-based program, now the program is moving toward a university based education program.

The cardiovascular team has been developed since twenty years ago. In cooperation with the National Hospital Heart Center Harapan Kita in Jakarta, currently our cardiovascular surgical team (consisting of Dr., Ngurah Artika SpAn, KAKV, Dr. Yudo Bhirowo Pratomo, SpAn, KAKV and Dr. Junikurniawati SpAn has been able to carry out cardiac surgery, with ten cases per year. The number of patients continues to increase by year.

Pediatric Anesthesia team who worked with the pediatric surgery team was pioneered by Dr. Muhdar Abubakar SpAn, KAP. Currently two pediatric anesthesia consultant joined this team, i.e. Dr. Djajantisari SpAn, KAP and Dr. Yunita Widyastuti SpAn, KAP, PhD. The team has experienced successful surgery for separating conjoined twins several times. The most recent surgery was the liver transplant in cooperation with Kyoto University Hospital, Japan. This team continues to grow.

Anesthesia Department is very concerned on patient safety. As a commitment, in collaboration with the Yogyakarta branch of Indonesian Society of Anesthesiologists and Intensive Therapy, a symposium and workshop on complications of anesthesia (SOAC) was offered starting in 2011. With better knowledge and understanding the complications of anesthesia, complications can be minimized and anticipated. The symposium is conducted annualy to attract increased number of participants. In 2013 in conjunction with the 3rd Symposium of Anesthesia Complications, our Journal of Anesthesia Complications has been launched. The journal has been published three times per year, mainly contains the results of research conducted at the Anesthesiology Department. In 2016, the journal started to publish its online version.

We aim to develop and strengthen the skills and knowledge of anaesthesiologists. Together with all anesthesiologist centers of education we improve our curriculum to meet the global standard of anesthesia. We invest in innovation and research that supports universal access to safe anaesthesia and start to develop simulation based anesthesia education. We also broadened our field of competency, for example by developing a Pain Clinic that is integrated with other specialities, Center for Obstetric Anesthesia and building our Organ Transplant and Conjoint twin separation team.

Chair’s Message

We aim to develop and strengthen the skills and knowledge of anaesthesiologists. Together with all anesthesiologist centers of education we improve our curriculum to meet the global standard of anesthesia. We invest in innovation and research that supports universal access to safe anaesthesia and start to develop simulation based anesthesia education. We also broadened our field of competency, for example by developing a Pain Clinic that is integrated with other specialities, Center for Obstetric Anesthesia and building our Organ Transplant and Conjoint twin separation team.

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Dr. dr. Sudadi, Sp.An., KNA., KAR

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>Anesthesiology was still a Laboratory in the Surgical Unit.</td>
</tr>
<tr>
<td>1981</td>
<td>The first Head of the Laboratory of Anesthesiology and Intensive Care was dr. Muhdar Abubakar SpAn and Head of Functional Implementation Unit (UPF) was dr. Sarosa Pandit H, SpAn.</td>
</tr>
<tr>
<td>1982</td>
<td>Laboratory of Anesthesiology and Intensive Care (now Department of Anesthesiology and Intensive Therapy) officially established</td>
</tr>
<tr>
<td>1985</td>
<td>Specialist education program on Anesthesia started.</td>
</tr>
<tr>
<td>1989</td>
<td>First resident trained (dr. I Gusti Rai Ngurah R Artika - now consultant on Cardiac Surgery Anesthesia), and officially recognized by the Ministry of Education and Culture as one of the centers for Anesthesiology and Intensive Care residency program.</td>
</tr>
<tr>
<td>1998</td>
<td>Department of Anesthesia changed into Department of Anesthesiology and Reanimation</td>
</tr>
<tr>
<td>2010</td>
<td>The name of department was changed once again to Anesthesiology and Intensive Therapy</td>
</tr>
</tbody>
</table>
Department of Basic and Emergency Nursing

We care, because life matters

Story behind the picture

The first Disaster Preparedness Training was conducted by the Emergency and Critical Care nursing staff division in 2011. The training was dedicated for the third year nursing students in order for them to master the life saving skills well.

Life does matter. Students must be well trained to save life.
The Department of Basic and Emergency Nursing was established as a new department in early 2016. The development of this department, however, has started since 1998 when the Department of Nursing was established with basic nursing and emergency nursing were among the divisions.

This department consists of ten academic staff members with minimum qualifications of Master degree. All staff members are dedicated to perform teaching, community services and research. Our department consists of two divisions. The first division, Basic Nursing, focuses on knowledge in basic nursing, nursing education and nursing management. Members of this division initiate seminars, workshops and trainings related to physical assessment system, nursing education, Standardized Nursing Language (SNL), diagnostic reasoning process, and clinical reasoning process.

We work closely with our partner hospitals, such as UGM hospital, Dr. Sardjito Hospital, and Banyumas district hospital to continuously improve patient care as well as teaching clinical practice, and undertake joint research. Together with our partners, we work on several issues such as patient safety issues, patient documentation and staff development through continuous nursing education event (CNE) both for our staff members and staff from our partner hospitals.

The second division, Emergency and Critical Care Nursing, focuses on knowledge in adult critical care nursing, pre-hospital and intra-hospital care, and disaster nursing. Staff in this department have been actively involved in disaster response team since 1998 up to present. In addition to establish Hospital Disaster Plan, this division also develops standards for palliative care as a guideline to provide care for the community.

Training on basic life support and disaster preparedness in community and disaster preparedness training for health professionals are routinely conducted. This division proactively work with professional organizations such as the Indonesian Critical Care Nurses Association, Indonesian Emergency and Disaster Nurses Association, and Disaster Response Unit (DERU) UGM.

International collaboration in research activities have been carried out with colleagues from other countries such as Japan, Thailand, and the Netherland. Several publications have been published in international conferences and journals which will enrich the body of knowledge in nursing related to this field.

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>1998</td>
<td>Basic Nursing Division and Emergency and Critical Care Nursing Division were Part of the Department of Nursing, Faculty of Medicine</td>
</tr>
<tr>
<td>2006</td>
<td>JICA grant on 'Mobile Rehabilitation by Empowering Local Community To Support Recovery of People Affected by My 27th Earthquake in Bantul District received</td>
</tr>
<tr>
<td>2007</td>
<td>JICA grant on the Emergency Response Training for Health Cadres in Disaster Prone Areas in Bantul, Yogyakarta, Indonesia received</td>
</tr>
<tr>
<td>2016</td>
<td>Department of Basic and Emergency Nursing established</td>
</tr>
</tbody>
</table>
Department of Biochemistry

Implementing Translational Research in Biochemistry

In the Department of Biochemistry, one of the main activities is performing laboratory analysis. We continuously develop genetic analysis from using Polymerase Chain Reaction (PCR) combined with electrophoresis technique to quantitative PCR.

**Story behind the picture**

At the beginning of the establishment, Biochemistry Department performed basic laboratory analysis such as Sahli method to quantify hemoglobin level in anemia diagnosis. As time goes by, laboratory techniques have evolved. Spectrophotometry, ELISA, and PCR are used to check different parameters in various diseases. One of our new techniques, which have been applied in the laboratory, is quantitative PCR (qPCR). This technique is more specific and sensitive to detect polymorphism or mutation and to quantify the target gene. The qPCR allows the researcher to monitor the amplification in real-time. Nowadays, qPCR is a powerful tool in genetic analysis.
Great development occurs in Biochemistry department. In research, we develop our laboratory techniques to improve the quality and quantity of researchers. Currently, we apply qPCR, the new molecular technique, for a more effective genetic testing using qPCR. We also attempt to register our MDA diagnostic to ISO certification. In education, this department not only improves the quality of teaching for undergraduate and graduate programs in our institution but also organizes some workshops for academic staff and students from other institutions. The workshops include basic molecular techniques and animal model preparation for nutrigenomic research.

In conducting education, research and community services, the department of Biochemistry actively and continuously collaborates both with institution in Japan (Kobe University) and in Indonesia, such as Lembaga Ilmu Pengetahuan Indonesia (the Indonesian Institute of Science), and Pusat Studi Pangan dan Gizi (Center for Food and Nutrition) UGM. We encourage our academic staff to participate in scientific and professional organizations such as the Indonesian Association of Biochemistry and Molecular Biology (Perhimpunan Biokimia dan Biologi Molekuler Indonesia-PBBMI), The Indonesian Association of Medical Nutrition Physician Association (Perhimpunan Dokter Gizi Medik Indonesia-PDGMII), The Indonesian Association of Food Technologists (Perhimpunan Ahli Teknologi Pangan Indonesia-PATPI), and Indonesian Association of Pharmacist (Ikatan Apoteker Indonesia-IAI).

The Department of Biochemistry also actively takes part in the community service activities by sharing knowledge with others, such as through organizing free medical treatment and biochemistry training for high school teachers in Yogyakarta.

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>Being the first in Indonesia to detect Survival Motor Neuron (SMN) gene deletion in molecular diagnose of Spindle Muscular Atrophy</td>
</tr>
<tr>
<td>2014</td>
<td>Publication award for “The Best Ratio of Staff to Publications” received from Faculty of Medicine UGM</td>
</tr>
<tr>
<td>2015</td>
<td>A scientific conference of the Indonesian Association of Biochemistry and Molecular Biology organized as an initial step to activate the association after a long vacuum for seven years</td>
</tr>
</tbody>
</table>
Department of Biostatistics, Epidemiology, and Population Health

On September 7-11 2015, Bayu Satria Wiratama, Hesti Yuningrum, Edy Marjuang Purba, Sri Sahayati, Defryana Rakebsa, Fatma Nuraisyah, Leyna Chunaifa, Mardia and Nur Aini Kusmayanti attended the 8th Global TEPHINET conference in Mexico.

BEPH has taken part in Field Epidemiology Training Program. The program, chaired by Prof Hari Kusnanto, has produced MPH field epidemiologists working throughout Indonesia. Our FETP students have been actively participated in international scientific meetings and courses around the world. Summary of student participation in international scientific activities.

- On September 7-11 2015, Bayu Satria Wiratama, Hesti Yuningrum, Edy Marjuang Purba, Sri Sahayati, Defryana Rakebsa, Fatma Nuraisyah, Leyna Chunaifa, Mardia and Nur Aini Kusmayanti attended the 8th Global TEPHINET conference in Mexico.

- Ms Listy Handayani, from 2014 FETP batch, recently got a TEPHINET mini research grant of $4500 for her study on “Maternal Determinants of Low Birth Weight in Temanggung District, Central Java Province”. Listy will conduct her research in 2016 and will be supervised by expert from the CDC consultant in maternal health. (TEPHINET: Training Programs in Epidemiology and Public Health Intervention Networks)


- Radian Ilmaskal, Defryana Rakebsa, Merlyn Sinaga and Agus Heri Setiawan of the FETP students won a scholarship to attend NCD training organized by the CDC in Atlanta, August 24-28 2015.

- In 6-31 July 2015, Evi Susanti Sinaga of the 2013 FETP batch attended National Cancer Institute (NCI) summer training about cancer prevention in Maryland, USA 2015.
Chair's Message

Congratulations for the 70th birthday of Faculty of Medicine UGM.

We are now facing public health problems at local and global settings that have features in common. We hope that FM UGM has the longest rooted in our “nusantara”, and with the widest in ASEAN and global networking.

In the 70th birthday, the school produces more competitive graduates nationally and internationally.

Dr. Mubasysir Hasanbasri, MA

DEPARTMENT PROFILE

BEPH department consists of faculty members who take care of the field of public health lectures in medical undergraduates, Master and PHD in the field of public health, epidemiology, and population health. Dr Mubasysir Hasanbasri MA and Riris Andono Ahmad MPH PhD are now the chair and the executive secretary of the department. Faculty members include Prof Siswanto Agus Wilopo PhD, Prof Hari Kusnanto DrPH, Prof Mohammad Hakimi PhD, Prof Djaswadi Dasuki PhD, Dr rer nat Istiti Kandarina, and other 5 faculty members are in their PhD programs.

Prof Agus Siswanto Wilopo PhD, Prof Mohammad Hakimi PhD, Prof Dr Djaswadi Dasuki PhD, and Dr Ova Emilia PhD has spawned a Master of Public Health in Maternal and Child Health and the Center for Reproductive Health.

In 2015, the center have completed the production of family planning module to be used as national curriculum for undergraduate medical teaching. The module was developed because of concern over the lack of a primary care doctor’s role in providing family planning services. While many physicians work in the areas where family planning services are in urging needs.

Vision:

- Working for the interest of public health.

Mission:

- BEPH wants to promote the health status of all the people of Indonesia, at the community, district, provincial, and national level, to reach the level of health status that is comparable to the population of the developed nations, through strengthening the productivity of education, research, and community services.

- BEPH fights for public health by working with all development sectors, the public and private institutions in within the country and at the global level.

Values:

- public health as public good
- evidenced based
- justice in public health
- cooperation with all health stakeholders

Goals:

In Education

- Recruit faculty members credible universities.
- Recruit outstanding students from all over Indonesia to study at our department.
- Organize a series of lectures, workshops and seminars that respond to society’s public health problems and professional needs of students.
- Promote graduates can work in strategic health institutions inside and outside the country.
- Develop educational programs that are relevant in solving problems of vulnerable groups and finding solutions to health inequity in Indonesia.

In public health research and program development

- Develop technical assistance for public in disease control infectious and non-infectious, reproductive health, public health nutrition, and the system of public health informatics for monitoring health status.
- Produce multidisciplinary researches, involving students and partners outside the university, that concern the public health problems of the vulnerable groups.
- Work together in doing public health research with various international agencies.
- Disseminate research findings in seminars and scientific publications at the national and international level.

In the field of community service

- Provide continuing education for professionals in the field of public health
- Develop policy papers for policy development in the areas of public health.
Department of Cardiology and Vascular Medicine

Integrated Education for Excellent Cardiologist

Story behind the picture

Graduating excellent cardiologist with exceptional competencies is the main purpose of Department of Cardiology and Vascular Medicine, Faculty of Medicine UGM. Supporting our purpose, 8 active divisions and 1 cardiology research unit with sufficient facilities and senior subspecialized staff are available with no need for students referred to other center to gain those competencies.

Department of Cardiology and Vascular Medicine, Faculty of Medicine UGM has 8 self-sufficient divisions and 1 cardiology research unit in providing cardiology education and excellent patient services. 1.) Ablation procedures in the Electrophysiology Laboratory, 2.) Cardiology Research Unit 3.) Cardiac MSCT examination, 4.) Echocardiography examination in pediatric division, 5.) Doppler Ultrasound examination 6.) Prevention and Cardiac Rehabilitation program 7.) Echocardiography examination in adult patient 8.) Coronary angiography examination in the Catheterization Laboratory 9.) Daily activity in CVCU (Cardiovascular Care Unit).
Profile

Department of Cardiology and Vascular Medicine, Faculty of Medicine UGM is quite a new department, established on the 28th of December 2004. Previously, it was still a part of the Internal Medicine Department. Before Department of Cardiology and Vascular Medicine was established, in March 2004 Cardiac Center in RSUP Dr. Sardjito was built, serving role as tertiary referral center for heart disease.

On the 28th of December 2004, Department of Cardiology and Vascular Medicine, was established as a center for Specialist training. Until today, students in our department has reached 50 students from all over Indonesia, with 19 cardiologist alumni.

Department of Cardiology and Vascular Medicine, Faculty of Medicine UGM with its 8 divisions and 1 cardiology research unit has been supported with numerous facilities to support the education process and completing its role as the center for specialist training.

This department has subdivision of Cardiology Research Unit (CRU) and also performs surveillance in registry system (mitral stenosis, atrial fibrillation, adult congenital heart disease, pulmonary hypertension, acute coronary syndrome, heart failure and vascular disease). Research ideas are expected to arise from these registry for the development of cardiology. Our department has been developing research network with Kobe University Japan in the field of pulmonary hypertension and congenital heart disease (atrial septal defect).

In 2011 Invasive and Non-surgical Intervention Cardiology Diagnostic Center and Electrophysiology Laboratory have been established to improve the patient service. Those services have played role as the excellent service in coronary heart disease and arrhythmia.

Until now, Department of Cardiology and Vascular Medicine, has 18 staff with high commitment to educate, deliver patient service and researchas mentioned in Tridharma of Higher Education. We have 2 professors, 9 PhDs, 10 consultants and 3 general cardiologists. Our deparment also has affiliation with 3 hospital network (RSUD Banyumas, RSUP Soeradji Tirtonegoro Klaten dan RS Harjo Lukito) to support education process.

Chair’s Message

Cardiology and vascular medicine has been rapidly growing with the improvement of cardiac and vascular disease management in the form of promotive, preventive, curative, rehabilitative and social cardiology as Tridharma of Higher Education implementation. These days, cardiovascular management of coronary heart diseases, peripheral vascular diseases, arrhythmias, congenital and structural heart diseases can be treated not only by medication but also by surgical or non-surgical interventions in the Department of Cardiology and Vascular Medicine, Faculty of Medical UGM. As a center of education, our department provides the training for future cardiologist with high competence in knowledge and skills, noble characters and prepared to work in Indonesia or abroad. For those who want to be trained to become an excellent cardiologist, our department provides the best offer.

Dr. dr. Budi Yuli Setianto, SpPD(K), SpJP(K)

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>2004</td>
<td>Cardiology and Vascular Medicine Department and RSUP Dr. Sardjito Cardiac Center established</td>
</tr>
<tr>
<td>2009</td>
<td>Center for Cardiologist Training approved</td>
</tr>
<tr>
<td>2012</td>
<td>Invasive Management of Arrhythmia developed</td>
</tr>
<tr>
<td>2013</td>
<td>Eight divisions of Cardiology and Vascular Medicine Department established</td>
</tr>
<tr>
<td>2015</td>
<td>CRU (Cardiology Research Unit) established</td>
</tr>
</tbody>
</table>
Department of Child Health

Dedication, compassion and innovation

Story behind the picture

Each new life brings hope. Babies and children can teach us a lot about how precious life is. With our dedication in promoting their health, our compassion in taking care of them, and our innovation in education, research and services, we are committed to help ending child health problems and to provide a better life.
Founded in the same period when the Faculty of Medicine, Universitas Gadjah Mada was established in 1946, the Department of Child Health is one of the biggest clinical departments. With 13 clinical divisions and 46 staff who work at Dr Sardjito Hospital, we provide a comprehensive approach to healthcare for the benefit of thousands of infants, children and adolescents annually. Referral patients come to us from all over Yogyakarta, South part of Central Java and several areas out of Java island. Our divisions have been the center of excellent in Indonesia. In 2015, the Hematology and Oncology division has been integrated with the International Cancer Center at Dr Sardjito. In parralel, Pediatric Cardiology also started to develop a sub-specialty center of care in collaboration with the Department of Cardiology, to form the Center for Cardiology.

Our clinical rotation and residency/training program has given learning opportunities with increasing levels of responsibilities and independence for our students through various inpatient and outpatient experiences. We are fortunate to be based in one of the national’s referral hospital, which provides challenging cases to enrich the general pediatrician competence in managing cases. We are also offering a learning environment that is built on mutual support, mentoring and friendship.

As part of the Faculty of Medicine UGM, the Department of Child Health enjoys to be part of the dynamic research environment where innovative and effective treatments and cures are under development. We have extensive international collaborations, such as with the Royal Children Hospital/The University of Melbourne, Vreij University, Saskatchewan University, Kyoto University, Kobe University, Taipei Medical University for various research, service, training and education. Along with the Pediatric Surgery, we are proud to collaborate with Kyoto University Medical School of Medicine for the first liver transplantation from life donor in Yogyakarta last November 2015. This will illustrate our continuous efforts to be at the forefront of healthcare for children in Indonesia.

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>Combined Master program (Master of Science in Clinical Medicine) and Residency program started</td>
</tr>
<tr>
<td>2006</td>
<td>Pediatric Research Office established as the center of surveillance for Vaccine Preventable Diseases WHO-Indonesia Ministry of Health</td>
</tr>
<tr>
<td>2011</td>
<td>Excellent accreditation for Pediatric Training Program from the National Board of Pediatrics</td>
</tr>
<tr>
<td>2015</td>
<td>Liver transplant from life donor performed for the first time</td>
</tr>
</tbody>
</table>
Department of Clinical Pathology and Laboratory Medicine

A good reputation built from knowledge, wisdom, and spirit to educate, do research, and serve the community

“Blood Banking and Transfusion Medicine as a breakthrough in the Department of Clinical Pathology and Laboratory Medicine Faculty of Medicine UGM and Clinical Laboratory Dr. Sardjito hospital”

Story behind the picture

Advance Course in Blood Transfusion which was held on August 13-14, 2015 is one of major event in developing Transfusion Medicine. This course aims is to develop the skills and increase knowledge of the Specialist, General Practitioner, Medical Analyst and Technical Transfusion Staff in Medical Transfusion. Blood Banking and Transfusion Medicine becomes one of the most eminent research, services, and education in the Department of Clinical Pathology and Laboratory Medicine Faculty of Medicine GMU / Dr. Sardjito hospital. Science development in this area has also been introduced to the residents through various international collaboration activities.
Profile

Department of Clinical Pathology and Laboratory Medicine Faculty of Medicine UGM was pioneered in 1954 by Prof. dr. RM. Tedjo Baskoro as the first head of Department. The development of this department and the Clinical Laboratory RSUP Dr. Sardjito have been integrated from the beginning. Currently, we have five divisions, namely Infectious Diseases & Gastroenterohepatology, Blood Bank & Transfusion Medicine, Hematology & Oncology, Immunology, Nephrology & Respiration, and Endocrinology & Cardiocerebrovascular. Since 2011, our Department also offers subspecialty training in Infectious Diseases and Blood Bank & Transfusion Medicine. Another program in subspecialty training was added in 2004 in the field of Hematology, Oncology, Immunology, Endocrinology accredited by the Indonesian Collegium of Clinical Pathology and Laboratory Medicine. For the undergraduate program, we actively contribute to educate medical doctors, nurses and dieticians.

Currently, we have 16 academic staff members dedicated in teaching, service and research. The staff member consists of one Full Professor, four PhDs, 12 Consultants, four specialists, and also a number of specialists from the affiliated hospitals. With adequate number of staff member, we are able to meet the ideal ratio of teacher to residents.

Blood Banking and Tranfusion Medicine, and also various laboratory tests to support the success of organ transplantation is our latest development. Our staff also plays a key role in managing the hospital infection prevention and control program at Dr Sardjito hospital. Development of thrombosis parameter, application of reticulocyte parameter in the management of anemia, and immunofenotyping for management of leukemia are currently applied.

The Department of Clinical Pathology and Laboratory Medicine has built strong collaboration in education, research and clinical services, such as with the following partners: Sysmex Japan, Sanquin Blood Bank The Netherlands, School of Health and Sport Sciences Faculty of Science, Health Education and Engineering, University of The Sunshine Coast Australia, and many others. In overall, all the above activities aim to improve quality of teaching, research and service performance.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>1954</td>
<td>Department of Clinical Pathology established</td>
</tr>
<tr>
<td>1981</td>
<td>Clinical Pathology service started in Dr Sardjito Hospital</td>
</tr>
<tr>
<td>1987</td>
<td>Became one of the five centers for Clinical Pathology Specialist Program in Indonesia.</td>
</tr>
<tr>
<td>1987</td>
<td>Automation of clinical chemistry examination started</td>
</tr>
<tr>
<td>2005</td>
<td>Immunology laboratory research established</td>
</tr>
<tr>
<td>2007</td>
<td>Prof. dr. Budi Mulyono, SpPK (K), MM was inaugurated as a professor of clinical pathology</td>
</tr>
<tr>
<td>2012</td>
<td>Consultant education program on Infectious Diseases and Blood Bank &amp; Transfusion Medicine started</td>
</tr>
<tr>
<td>2014</td>
<td>Consultant education program on Hematology, Oncology, Immunology and Endocrinology started</td>
</tr>
<tr>
<td>2015</td>
<td>Clinical Pathology takes part in conjoined twins surgery, heart transplants, kidney transplants, and liver transplants</td>
</tr>
</tbody>
</table>
Department of Dermatology and Venereology

Developing Excellence in Regenerative and Environment Dermatology

Profile

Department of Dermatology and Venereology was founded in 1954 in Mangkubumen, initiated by Prof. Dr. M. Sardjito as the president of the State Universiteit Gadjah Mada. Two years later, clinical activities were officially started after the first specialist graduated from the Faculty of Medicine Jakarta, dr. RM Rahardjo Nitiseputro, came in 1956. He was subsequently appointed as the Head of Dermatology and Venereology. In 1957, clinical specialization training was opened in 1957 with the first assistant dr. Soeliantoro Soelaiman. In 1960 all activities were moved to the hospital clinic Pudyowalujo Mangkuwilayan. Furthermore, in 1974 the Dermatology and Venereology moved to the Dr. Sardjito hospital along with several other clinics.

With 21 educational staff, comprising of one professor, 19 PhDs, 11 consultants, Department of Dermatology and Venereology has been actively...
Chair’s Message

During the last decades, Department of Dermatology and Venereology continues to develop new studies and techniques in order to more precisely diagnose and treat various skin diseases. The latest advancement is using autologous cell and tissue transplant not only for wound healing but also for treating scars and chronic skin diseases such as vitiligo. Phototherapy has also been used as routine treatment for skin diseases.

We have a vision to be the best institution in providing education and clinical services in Dermatology and Venereology at the national and international level. Our strategy is to develop research as the basis for improving quality of education and services.

dr. Fajar Waskito, SpKK(K), M.Kes

participating in teaching the undergraduate program in medicine, clinical rotation for medical students residency training, and also master-PhD supervision. Our department has hosted several international and national seminars/conferences.

Department Dermatology and Venereology has been gaining interest through the delivery of excellent studies, healthcare, and educational services based on Tri Dharma of Higher Education in the field of Education, Research, and Society Service. Basic as well as clinical research are conducted in our laboratory. We are testing drugs, cosmeceutical, medical devices, and medical policy research.

Our collaboration network is expanding to include government and non-government institutions at national and international level. We collaborate with several international institutions, such as Melbourne University, University of Amsterdam, University of Groningen, Malmo University Sweden, Marburg University and Ludwig Maximilian University Germany, Kobe University in Japan, and companies such as Unilever, Lion Japan, and Mandom corporation.

Based on our research findings, we apply the results for the sake of patient care. Tissue and cell transplant are now being used in wound treatment and various diseases. Phototherapy has been routinely used for chronic skin diseases such as psoriasis and vitiligo. We also routinely perform patch test for identifying causative allergen in contact dermatitis and drug allergies. The Division in Pediatric Dermatology and Genodermatosis has been conducting molecular genetic studies in many hereditary skin disorders, while the Division in Sexually Transmitted Infection has also been involved in nationwide HIV-AIDS control in addition to research activities. Our research activities in Dermatology and Venereology Department are preparing the Department to become an outstanding centre for training and research in dermatologic surgery.

The improvement of staff, students, and service facilities reveals a very promising development and advancement of the Department of Dermatology and Venereology, which will hopefully support the commitment for excellent education and medical services based on research. Our vision is to become an innovative and excellent institution in regional and international levels and to give the best medical service to the community.

Areas of Excellence and Research

- Cell and tissue transplant in wound healing
- Initiating stem cell research for aging skin
- Phototherapy
- Pediatric and genodermatology focusing in molecular genetic
- Patch test and allergen identification in allergy and immunology
- Referral centre for Severe Cutaneous Drug Reactions
- Occupational and Environmental Dermatology

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1954</td>
<td>Dermatology and Venereology Department established</td>
</tr>
<tr>
<td>1980</td>
<td>Postgraduate specialist training in Dermatology and Venereology started</td>
</tr>
<tr>
<td>1985</td>
<td>Phototherapy for chronic skin diseases applied</td>
</tr>
<tr>
<td>2005</td>
<td>Research laboratory established</td>
</tr>
<tr>
<td>2010</td>
<td>Gama chamber as a standard chamber in patch test produced</td>
</tr>
<tr>
<td>2011</td>
<td>Autologous tissue transplant and PRP for wound healing and scar treatment implemented</td>
</tr>
<tr>
<td>2012</td>
<td>Allergens identification using Thin Layer Chromatography and chemical analyses using Gas Chromatography – Mass Spectrometry applied</td>
</tr>
</tbody>
</table>
Department of Ear, Nose and Throat (ENT)

Towards excellent research and technology-based services

Story behind the picture

Since 2014, outpatient clinic services in the division of Pharyngolaryngology and Bronchoesophagology has been improving. Now, endoscopy can be done at the outpatient clinic. Moreover, integrated data management is improved as this is important for educating future medical doctors and ENT specialists.
Residency program in otorhinolaryngology (Ear, Nose and Throat-ENT), Faculty of Medicine UGM was firstly initiated by Prof. R. Oepomo at Mangkuwilayan hospital since 1959. The establishment of curriculum for the residency program was evolving until 1977 before it was finally standardized in 1977. The graduates achieved specialist degree in ENT. Starting from 1982, the department of ENT was moved to Sardjito hospital, while the residency education program was still held at Mangkuwilayan hospital. Eight years later in 1990, all activities of the department was successfully centered at Dr. Sardjito hospital, Faculty of Medicine UGM. The integration of education, research and service becomes more prominent since the unity of all activities at Dr Sardjito hospital and establishment of UGM University hospital. Innovation in the curriculum also took place when the Department participates in the Combined degree of Master program in Clinical Medicine and the residency program.

Research performance is continuously improving. All divisions consistently perform research as a fundamental aspect in the University life. Multicenter collaborations with national and international partners are also performed to enrich the scientific atmosphere. As the result, many papers were published in scientific journals.

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>1959</td>
<td>ENT Department established and the residency program also started.</td>
</tr>
<tr>
<td>1977</td>
<td>Standardized residency program at Mangkuwilayan and increased number of staff</td>
</tr>
<tr>
<td>1982</td>
<td>ENT Department moved to Sardjito hospital</td>
</tr>
<tr>
<td>1985</td>
<td>Academic staff started to take fellowships, post-graduate programs, subspecialties in Europe and Asian countries to develop divisions in ENT: Oncology, Neuro-otology, Otology, Rhinology, and Endoscopy. Collaboration with the Netherlands for Oncology division</td>
</tr>
<tr>
<td>2010</td>
<td>Multicenter study in national and international level</td>
</tr>
<tr>
<td>2013</td>
<td>Development of services in all divisions, equipped with advanced-high tech instruments</td>
</tr>
</tbody>
</table>

### Chair’s Message

We are committed to improve the quality of education, research, and public service. One of our strategy is to collaborate with international education center for Head and Neck Surgery (oncology division), such as AVL Netherlands in Deutch. Our curriculum is designed in modules following the standard from the Indonesian Otorhinolaryngology Head and Neck Surgery. Through education and research, we hope to improve the quality of clinical services, including Neurootology-micro ear surgery, Rhinology and Allergy, Pharyng-Laryngology, Bronchoesophagology, Oncology-Head and Neck Surgery, Plastic reconstruction, and community ENT service.

For more detail information please visit our website: http://tht.fk.ugm.ac.id

Dr. dr. Bambang Udji Djoko, SpTHT-KL(K), M.Kes
Department of Family, Community and Bioethics

Strengthening primary care education and services for the nation through professionalism and ethics

“The Rock of Primary Care” as a symbol of a life-long commitment towards strengthening primary care services and education

**Profile**

The Family, Community Medicine and Bioethics (DFCMB) is a new department at the Faculty of Medicine UGM, which was established in 2016. The department has two professors, one doctorate staff, three academic staff with masters in Primary Care and many adjunct faculty members from the clinical departments. The department was initiated in late 90’s when graduate courses in primary care medicine organised by the Association of Family Doctor Indonesia begun, continued with activities led by Prof Adi Heru Sutomo under the Health Professional Education Quality (HPEQ) Project in 2012. In this project, Prof. Michael Kidd (President, WONCA World Family Doctors’ Association) and the Dean of Flinders University Australia provided technical assistance.

The DFCMB, known as the Family Medicine Team, started a graduate courses in primary care medicine called the Weekly Clinical Updates on Primary Care, since 2011. This graduate course has been conducted in Yogyakarta and DKI Jakarta in collaboration with the local governments. The final session of this course became the Annual Conference which was also attended by Prof. Mark Alan Graber, Prof. Jason Wilbur and Prof. Lisa Soldat from the Iowa University.

**Story behind the picture**

Since 2011, Faculty of Medicine UGM in collaboration with the Department of Family Medicine, Carver College of Medicine, University of Iowa has been conducting Annual Clinical Updates of Primary Care. The uniform was inspired by the wardrobe of dr. Wahidin Sudirohusodo, one of the Indonesian leaders in primary care services.

The picture showed a fundamental commitment towards strengthening primary care services and education signed by the Sultan Hamengkubuwana X (the Governor of Yogyakarta), placed at Taman Medika, Faculty of Medicine UGM and witnessed by the Dean Prof Teguh Aryandono, Professor Soenarto Sastrowijoto and students from the Master of Family Medicine program. “The Rock of Primary Care” is now more than ever and will last forever.
Continuing our efforts to strengthen primary care education, in 2013 we initiated the Master program in Family Medicine, as a majoring in Clinical Medicine study program. Currently, more than 50 students are enrolled. In the future, we hope to be able to offer a specialization program in Family Medicine. Within its journey, the Center for Bioethics and Medical Humanities (CBMH) enliven the DFCMB.

The Center for Bioethics and Medical Humanities (CBMH) history started in 1997 as Bioethics and Medical Humanities Team led by Prof. Dr(HC). dr. Yati Soenarto, SpA(K), PhD. The team aimed to improve moral, ethical, and behavioral aspect of the medical students. The initial strategy was involving interdisciplinary experts, i.e. medicine, philosophy, psychology, social-humanities, civic, law, religion, which soon transformed into what the center is currently promoting, a trans-disciplinary approach.

In its further development, the center has evolved into an innovative and productive center with main vision “to improve bioethics and medical humanities education, research, and service in order to create highly qualified moral and humane practitioners”. The center aspires to achieve through its missions in education, research and service.

The center has made significant international contributions on bioethics development, through hosting international conferences, trainings, collaborative projects and research. We encourage and empower Asia-Pacific iniitiatives in enriching bioethics development in this global society. In line with that spirit, the center was appointed as the leading coordinator for the International Consortium on Bioethics and Humanities, which hosts the Asia-Pacific (Trans-nations) bioethics collaboration (initiator countries are Indonesia, Taiwan, Malaysia, Australia).

**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1990</td>
<td>Family Medicine Association in Yogyakarta Province initiated.</td>
</tr>
<tr>
<td>2000</td>
<td>Bioethics 2000: An International Exchange conducted (Harvard Medical School – Gadjah Mada Medical School)</td>
</tr>
<tr>
<td>2010</td>
<td>Family Medicine team formally established and chaired by Prof. Adi Heru Sutomo, MSc, PhD. Prof Mark Alan Graber from Iowa University first visited UGM</td>
</tr>
<tr>
<td>2010</td>
<td>Certified Courses (Grad. Certificate &amp; Grad. Diploma) on Bioethics (HELP) for Health Professionals started</td>
</tr>
<tr>
<td>2011</td>
<td>Annual Clinical Updates on Primary Care started</td>
</tr>
<tr>
<td>2011</td>
<td>International meetings in Taiwan, Malaysia, Bangkok held and attended by UGM and partner universities from Taiwan (TMU, NTU, CMU, NCKU), the Netherland (AMC), Malaysia (USM) and Washington (UW). In the same year, Bioethics and Medical Humanities Education network established.</td>
</tr>
<tr>
<td>2011</td>
<td>Partnership with University of Iowa, US, University of Maastricht The Netherlands and University of Flinders Australia, started</td>
</tr>
<tr>
<td>2013</td>
<td>Master program in Family Medicine started</td>
</tr>
<tr>
<td>2015</td>
<td>The National Board on Primary Care Doctors was established. The College of Indonesian Primary Care Doctors was also established and chaired by Prof. Hari Kusnanto, MPH, Dr.PH</td>
</tr>
<tr>
<td>2016</td>
<td>The Department of Family, Community Medicine and Bioethics established</td>
</tr>
</tbody>
</table>

**Chair’s Message**

The advancement of science and technology today has gone at very rapid speed, and it is not for a bad reason. By nature, human beings are curious creatures with aspiration for change and improvement. It is of our main concern to amplify those little voices and restore sights of humanity. Through the lens of bioethics, we hope to endorse the transdisciplinary attitude to pay our due respect in this transcultural environment to provide appropriate support in science and knowledge development in Indonesia.

Primary Care Medicine is not the care for the poor, from the unskilled health professionals, with less quality of services. The primary care medicine should be served with the highest quality of care for everyone (regardless of age, gender, race, religion, culture, and so forth), by competent primary care physicians in a ’24/7’ mode, at the easiest and most convenient access, most affordable cost, anywhere. "General Practice is the easiest profession to do badly, but the most difficult to do well." (Sir William Osler)

Prof. Dr. dr. Adi Heru Sutomo, M.Sc., D.Comm. Nutr
Department of Forensic Medicine and Medicolegal

Forensic Identification
The Department of Forensic Medicine of the Faculty of Medicine UGM-RSUP DR Sardjito in collaboration with Regional DVI team from West Java, Yogyakarta, Police-Medical Team and Australia’s DVI Team identified 21 victims of Garuda plane crash in 2007. A good team work resulted in fast and accurate identification process. Only within three days, all victims were successfully identified. This effort was appreciated by the Indonesian and Australian government as a good example of an effective and accurate DVI team work.

**Profile**

The Department of Forensic Medicine and Medicolegal was established in 1952, with the name Mediciana Forensi. Our department has delivered residency program in Forensic Medicine since 1977. Supported by 13 staf, currently our department is still continuously developing in the developing for a better education and practice excellence.

Science is dynamic. In the future, we hope to be able to develop further competence in the field of Biomolecular Forensic. With only one PhD in Biomolecular Forensic, the Department needs to attract more academics with this background. In addition, expertise in law will also improve the capacity of the department to keep up with the Medicolegal issues.

<table>
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<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1952</td>
<td>Department of Forensic Medicine established</td>
</tr>
<tr>
<td>1977</td>
<td>Residency program in Forensic Medicine started</td>
</tr>
<tr>
<td>2006</td>
<td>Identification of the victims in Yogyakarta earthquake</td>
</tr>
<tr>
<td>2007</td>
<td>Identification of the victims of Garuda plane crash</td>
</tr>
</tbody>
</table>

**Chair’s Message**

We realize that this department is still in the developing stage. However, we are determined to push ourselves in improving excellencies in teaching, research and services. We believe that we can accomplish our vision in 2025 through relentless effort and good strategic plans.

**dr. Ida Bagus Gede Surya Putra Pidada, Sp.F**
Department of Health Nutrition

Nutrition for a better health

The participants of 6th International Symposium on Wellness, Healthy Lifestyle and Nutrition. The important contribution of the Department of Nutrition and Health towards scientific community within the region.

The International Symposium on Wellness, Healthy Lifestyle and Nutrition (ISWHLN) is one of the regional forums on wellness, disease prevention, healthy lifestyle, food and nutrition. The conference was started in Yogyakarta-Indonesia (2010) and has been organized in several other countries in Asia Pacific region such as Thailand and Malaysia. The ISWHLN has played an important role in building network between scientists and health practitioners across the region to enhance health and wellbeing by a healthy lifestyle. This symposium was organized by Universitas Gadjah Mada, Universiti Sains Malaysia and Prince of Songkla University.
Profile

Department of Nutrition and Health, Universitas Gadjah Mada (UGM) was officially established in 2013, although the undergraduate degree in Nutrition and Health started since 2003. Our vision is to become an internationally recognized center of education, research and community service which places great emphasis on professionalism in preparing human resources that uphold moral values and pledge integrity on national interest.

We strive to be an excellent academic institution in the field of nutrition and health that recognizes local potential while continues to achieve international standards. In doing so, we focus on at least several areas including fostering international collaboration for research and human resource development, as well as strengthening our research in utilizing local food source to tackle malnutrition problems.

Currently we have built international collaborations, such as with Flinders University (Australia), Universiti Sains Malaysia (Malaysia), Taipei Medical University (Taiwan), and Universiti Kebangsaan Malaysia (Malaysia). With Flinders University, we collaborate with the School of Health Sciences for visiting lectures. We have a long collaboration with School of Health Science at University Sains Malaysia through hosting the annual International Symposium of Healthy Lifestyle and Nutrition (ISWHLN) which is hosted in different countries each year. Recently, we have also been collaborating with Taipei Medical University (TMU), Taiwan for an on-going annual event attracting practicing dieticians and academics interested in updating their knowledge in current practice of dietetics. In addition to strengthening our international collaboration, we have also strengthened our national collaboration through various events, such as organizing annual short course programs dieticians and academics in Indonesia.

All our national and international collaborations are essentially keys to strengthen our research and human resource development to answer local, national and international issues in nutrition and health. In addition, we also focus on research in utilizing local food sources for solving current issues in nutrition (functional foods and nutraceutical). We also strive to solve local and national issues as our first priority.

Because Universitas Gadjah Mada is a research university, research is a pivotal part of education system in our undergraduate school. Research in our school is aimed to solve problems in our region and used as a basis of evidence based nutrition that is developed in our faculty. We develop five divisions for scientific development. Clinical nutrition, community nutrition and food service management are the backbone research in our school because those are principal competencies of dieticians. Additionally, we also develop research in functional food and molecular nutrition to support the development of science on the role of nutrition on human health.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>Undergraduate program in Nutrition and Health started</td>
</tr>
<tr>
<td>2013</td>
<td>The Department of Nutrition and Health established</td>
</tr>
<tr>
<td>2013</td>
<td>The 4th International Symposium on Wellness Healthy Lifestyle and Nutrition held</td>
</tr>
<tr>
<td>2015</td>
<td>The UGM-Taipei Medical University (TMU) Joint Course on Clinical Nutrition and Food Service Management held in Taipei</td>
</tr>
</tbody>
</table>

Chair’s Message

The emerging prevalence of malnutrition and obesity in Asia-Pacific region has reached the alarmed rate which require immediate action. Nutrition is one of the pivotal factor in alleviating the health in the population. Department of Health Nutrition, Universitas Gadjah Mada, is very active in pursuing solution across our distinguished divisions: public health, clinical nutrition, food service management, metabolism and nutrition. The mission of the department is to perform education, research, and community service activities under good and professional governance according to local wisdom.

Dr. Toto Sudargo, SKM, MKes
Department of Health Behaviour, Environmental and Social Medicine

Addressing Global Challenges by Promoting Health Behaviour, Environmental Health, and Social Medicine

Posyandu revitalization as an effort to improve community awareness on the importance of health, especially in emergency situation (post Bantul’s earthquake, 2006)

Story behind the picture

Community service carried out by the Department of Health Behavior, Environmental Health and Social Medicine (HBESM) in response to 2006 Java earthquake in Bantul, Yogyakarta. The HBESM team revitalized Posyandu in Bantul by sending out students and lecturers for community service and collaborating with several partners, for example UNICEF Indonesia. The success of Posyandu revitalization program was due to participation of the community members and leaders (such as the head of RT/RW chairman, representatives of affected population) during planning, implementation and evaluation of the program.

Posyandu revitalization was conducted to better monitor and identify health problems especially in the area of nutrition, maternal and child health, maternity services, personal hygiene and environmental sanitation.
Between 18th century and 19th century, scientists had combined research and action in social behaviour and environmental health. This integration proved to be strategic in explaining and finding solutions for health problems. The importance of social determinants of health and how it affected health and environmental status was increasingly recognized in early 20th century. This indicated that interdisciplinary approach was needed to tackle health problems. The increased incidence of behavioural-related health problems also showed that social approach is needed in public health intervention. It is clear that the health status of the society is determined by many factors, such as behavior, environment and health.

In Faculty of Medicine, studies related to health behaviour, environmental health and social determinants of health had been developed since 1992. In 2008, the environmental health division was merged into the public health program department, followed by the occupational health division in 2014. Department of Health Behaviour, Environmental Health and Social Medicine (HBESM) was established in 2014 with the mission to improve internationally recognized education, research and community service in health behaviour, environmental health and social medicine.

The Department of HBESM also provides community services, for example consultancy, training, seminars, and community education activities. Community service aims to deliver intervention to help improving community health, especially those related to health behaviour, environmental health and social medicine. In addition, intervention which engages community empowerment also allows the Department of HBESM to translate theory and research into practice.

Research on health behaviour and promotion, environmental health and occupational health continuously evolve with the growing needs of the society. Research in the Department encompasses communicable disease, non-communicable disease, tobacco control, community empowerment, advocacy, climate change, environmental management system, environmental health risk analysis and occupational health. Department HBESM has established collaboration with local and international institutions, such as the local and national health ministry, World Bank, ILO, Family Planning board, ILO, IDRC, GTTEC, NIH, WHO, CDC, etc. With 20 years of experience in research and practices in health behaviour and environmental health, Department of HBESM enthusiastically embraces the integration of health behaviour, environmental health and social medicine approach to answer the global demands of health problems and promote effective interventions.

Profile

Chair's Message

HBESM department is a newly established department in Faculty of Medicine UGM. We aim to produce graduates who have advanced expertise in health behavior, environmental health and social medicine. The strength of our department lies on health behaviour, social medicine, and qualitative studies. The establishment of this Department could further contribute to global health challenges, such as climate change as climate change is closely related to health behaviour and environment. Human behavior can both be the cause and the solution of climate change issue. The development strategy of this Department will be based on local wisdom, social and humanitarian aspects. To improve the quality of HBESM department, we should keep moving forward by maintaining our national and personal conscience and always proud to be ourselves.

dr. Fatwa Sari Tetra Dewi, MPH., PhD.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1986</td>
<td>Health behaviour and public health education established</td>
</tr>
<tr>
<td>1993</td>
<td>The health behavior and public health education division changed its name into the health behavior and promotion division</td>
</tr>
<tr>
<td>1994</td>
<td>Collaborate with The Indonesian Ministry of Health in “Provincial Health Project V” in providing scholarship for postgraduate students majoring in health promotion, public health postgraduate program in Indonesia.</td>
</tr>
<tr>
<td>2015</td>
<td>The Indonesian Society for Health Promotion and Education (PPPKMI) established</td>
</tr>
<tr>
<td>2016</td>
<td>The new department of health behaviour, environmental health and social medicine established</td>
</tr>
</tbody>
</table>
Department of Health Policy and Management

Educating new generations of global and local health leaders for a healthier world

Story behind the picture

Becoming a water tower, Health Policy and Management Department in Faculty of Medicine, Gadjah Mada University is committed to deliver better knowledge to build the best policy and management in health system for national purposes. Our aim is to ensure the Indonesian health system to achieve a better health and welfare, as well as to be ready in facing ASEAN Economic Community.

Profile

Established in 2016, Health Policy and Management (HPM) Department is a new department at the Faculty of Medicine, Universitas Gadjah Mada. Although the department is officially new, the academic program on health and policy management has already been existing as majoring in Public Health Post-Graduate Program since 1992 and as part of the undergraduate program in Medicine.

In undergraduate medical curriculum, HPM manages various learning blocks about professionalism, health system and disaster management. In postgraduate level, the department manages four study programs consisted of the Hospital Management Program (Minat Manajemen Rumah sakit-MMR), Health Policy and Service Management Program (Kebijakan dan Manajemen Pelayanan Kesehatan-KMPK), Health Management Information System Program (Sistem Informasi Manajemen Kesehatan-SIMKES), and Health Insurance Policy and Management Program (Kebijakan Pembiayaan dan Manajemen Asuransi Kesehatan-KPMAK). Besides that, Health Policy and Management Department actively participates in teaching the specialist program, consultant program, nursing program, and health nutrition program.

The involvement of this department in undergraduate and postgraduate program aims
to create graduates’ ability and characteristic that can implement health policy and management knowledge principles. The graduates are also expected to have characteristics as a leader and can think systematically. Considered from the professionalism side, the graduates from Health and Policy Management Postgraduate Program are expected to reach their highest professional level as supervisor/program manager and executive/senior manager. Some of them are also expected to be competent public stakeholders.

Health Policy and Management Department’s vision is to become a Department that can drive the development of science in health policy and management and being recognized by all science users in Indonesia and worldwide. Department’s institutional missions are to provide health policy and management knowledge support in developing the public health status in Indonesia; to develop science of health policy and management by education, research, and community service; and to support faculty and departments in Universitas Gadjah Mada to develop their own knowledge.

Health Policy and Management Department in 2015 had accepted 129 postgraduate students, consisted of 58 students in Hospital Management Program, 38 students in Health Policy and Service Management Program, 14 students in Health Insurance Management and Financing Policy Program, and 19 students in Health Management Information System Program. Some of the students are part of our collaboration with Jakarta Special Provincial Health Office, hospitals, and health service institutions spread from all across Indonesia.

We have 18 staff who are lecturers in Health Policy and Management, consisted of: three Professors and seven PhDs, four Doctoral Candidates who will graduate in 2016, and four young lecturers who are still Master graduates. Besides all permanent lecturers above, Health Policy and Management Magister Program also have 64 non-permanent lecturers originated from many institutions, not only from health science background but also from non-health science background.

Chair’s Message
Greetings from Health Policy and Management Department, Faculty of Medicine, Universitas Gadjah Mada. This newly-formed Department invites all people to study the science of policy and management in effort to increase the leadership in health sectors and in any branch of medical science in one mission, that is to increase the public health status.

Prof. dr. Laksono Trisnantoro, M.Sc., Ph.D.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991</td>
<td>Science development of Health and Policy Management in Medical Faculty, Gadjah Mada University began</td>
</tr>
<tr>
<td>1992</td>
<td>In September 1992, Gadjah Mada University’s Hospital Management Master Program started. Before its establishment, there was a Community Health Center’s Project that was funded by Ford Foundation in CCHC Program in the mid-decade of 1980s.</td>
</tr>
<tr>
<td>1995</td>
<td>Health Policy and Service Management postgraduate program started</td>
</tr>
<tr>
<td>1996</td>
<td>Drugs Management and Policy postgraduate program founded</td>
</tr>
<tr>
<td>2000</td>
<td>Health Insurance Management and Financing Policy postgraduate program founded</td>
</tr>
<tr>
<td>2005</td>
<td>Health Management Information System postgraduate program founded</td>
</tr>
<tr>
<td>2006</td>
<td>Hospital Management postgraduate program achieved ISO certification</td>
</tr>
<tr>
<td>2014</td>
<td>IT-based Hospital Management postgraduate program to reach students from The Eastern Side of Indonesia initiated</td>
</tr>
<tr>
<td>2015</td>
<td>Health Management Information System Program achieved IMIA International Accreditation</td>
</tr>
</tbody>
</table>
Department of Histology

Together we build the excellence

Story behind the picture

Team building can be done through different activities, practice makes perfect, and done harmoniously; basically these are the principles used in our department, regarding various activities within limitation of resources.

Our department supports teaching and research activities in the field of histology, cell biology, immunology and tumor biology. Additionally, we have 15 years of providing national courses ranging from immunology, tumor biology, techniques on molecular biology, immunology and microtechniques.

We seek excellence through the use of web-based research support, quick responses, providing resources for the latest techniques, and standardized capacity of the staff through internal and external trainings.

Despite time spent for teaching and research supports, our staff produces good quality researches as well, with collaborators among all WHO-IARC, Royal Adelaide Hospital, Vrije Universiteit Amsterdam, Netherlands Cancer Institute, Aarhus University Denmark, Kyoto Univ, and Riken research institute Japan.

These can not be achieved alone...
Profile

Department Histology, Faculty of Medicine, Universitas Gadjah Mada was founded in 1969 by Prof. dr. R. Adisewojo at Mangkubumen Campus. In the period of 1969-1970, WHO delegation, led by Prof. Dr. M.J. Wess provided valuable support in the form of equipment, as well as scholarship for the academic staff and technicians. Department of Histology then relocated to Faculty of Medicine in Sekip Campus in 1980. Since 1996 the department was developed into “Department of Histology and Cell Biology” to be also focusing on cell biology.

The department has 12 academic staff (2 professors, 6 PhDs, 1 PhD candidates, 1 M.Sc, and 2 interns), and 10 support staff. All the academic staff have Master degree in Histology and microtechniques, in addition to their own interests, such as immunology, tumor biology, and neuroscience. The main research interests underlie the formation of division at the Department of Histology and Cell Biology. This department also manages Histology and Cell Biology Master courses aiming for preparing human resources with good capacity in doing biomedical research.

Besides teaching activities, our department routinely provides normal histological sections for education and research purposes in Indonesia. We supervise researches, and providing microtechnique facilities (from small animal dissection, tissue processing, staining, and computer-assisted microphotography). Currently we put forward the use of stereology for better quantifying information provided from 2D-section. For laboratory activities, our research lab has become a model for the application of Good Clinical Laboratory Practice at the Faculty of Medicine UGM.

Started from grant received from the Netherlands Cancer Foundation in 2000, we have build annual courses on immunology inviting experts from Netherlands and Indonesia to discuss immunology and cancer; later, this course has expanded to non-cancer topics as well. We also provide research expertise and courses in molecular biology, immunology, and molecular cell biology nationwide. We build knowledge and expertise, through training abroad (mostly) and further we require an in house training to strengthen the capacity of most (if not all) staff. However, we encourage our staff to seek their research interests. So far the research topics are breast cancer (genetic, and circulating DNA), nasopharyngeal carcinoma (the use of EBV based biomarkers and tools for screening, and risk determination), Chronic Myeloid Leukemia, Immunology and herbal medicine, and Neuroscience.

Welcome to the Department of Histology and Cell Biology.

Chair’s Message

Histology is a branch of medical science focusing on normal microscopic structure of cell and tissues and their related function. Histology bridges biochemistry, molecular biology, physiology, disease process and the effect of disease. Therefore, the needs to develop Histology area is essential and we further expand this into Histology and Cell Biology. Our vision is to become reference for the development of education and research in the field of Histology, Molecular Cell Biology and Immunology in Indonesia.

The department has 12 academic staff (2 professors, 6 PhDs, 1 PhD candidates, 1 M.Sc, and 2 interns), and 10 support staff. We provide laboratories for techniques surrounding microtechniques, and support teaching/research activities in the field of Histology, Molecular Cell Biology, Immunology, and Tumor Biology for all education strata; while in research our staff focus on Immunology, Tumor Biology (including genetic), and Neuroscience.

Welcome to the Department of Histology and Cell Biology.

Dewi Kartikawati Paramita, S.Si.,MSi., PhD

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1969</td>
<td>Department of Histology established</td>
</tr>
<tr>
<td>1996</td>
<td>The name of Department changed into Department of Histology and Cell Biology to enlarge the scope of science.</td>
</tr>
<tr>
<td>1999</td>
<td>Lab Tumour Biology established in collaboration with The Netherlands Cancer Foundation and Vrije Universiteit Amsterdam (this lab become the seed of Molecular Biology, est. 2005)</td>
</tr>
<tr>
<td>2000</td>
<td>Course on Immunology funded by The Netherlands Cancer Foundation and supported by Vrije Universiteit Amsterdam started. This becomes annual courses and forum for research collaborations in cancer in Indonesia</td>
</tr>
<tr>
<td>2014</td>
<td>Stereology on microtechniques introduced</td>
</tr>
</tbody>
</table>
Department of Internal Medicine: now and then

“Left: Our head of department from the past up to present. Right: Activities conducted in Department of Internal Medicine”

Story behind the picture

The photographs above are the Department leaders and our respected teachers who have set strong fundamental basis of our current department. They are Prof. dr. Sardadi, dr. R. Arjono, dr. Poestika Sastroamidjojo, dr. Harjono Adenan SpPD KGEH, Prof. Dr. H.AA. Husain Asdie SpPD KEMD, dr. Soebagjo Loehoeri, SpPD, KPTI, Prof. Dr. dr. M. Sjabani M. Med. Sc, SpPD KGH, dr. Ibnu Purwanto SpPD KOM, and dr Heru Prasanto SpPD KGH.
Profile

Initiated in 1950’s at Pugeran Hospital, the Department of Internal Medicine has started the very first services. In 1980’s, the outpatient clinic was then moved to the second floor of Dr. Sardjito hospital. According to the second congress of the Indonesian Association of Internal Medicine Association of Indonesia in 1973, UGM was appointed to be the center for residency training in Internal Medicine. One year later, Dr. Ny. Poestika Sastroamidjojo, Department’s chair, established seven divisions, namely Infection, Renal and Hypertension, Endocrinology, Cardiology, Gastro-entero-hepatology, Hematology Oncology, and Rheumatology. When it started, the first students were dr. Hari Sukarto, dr. Haryono, dr. Moefroedi, dr. Sutjitro, dr. Elias Parjono, dr. Adiwijono dan dr. Asdie. Currently, we have graduated more than 400 Internists. Along with the scientific development in Internal Medicine, we now have eleven divisions. In 2010, according to Indonesian Association of Internal Medicine (SK No 57/KIPD/SK/V/2010), education of subspecialty program began in the department for the following subspecialties: Endocrinology, Rheumatology, Geriatrics, Tropical Medicine, Hematology Oncology, Gastro-Entero-Hepatology, Renal-Hypertension and Pulmonology.

With the increasing number of patients, Department of Internal medicine is challenged to keep improving service quality. Currently, we excel in interventional pulmonology, HIV service, herbal medicine, endoscopy and Diabetic clinic. We are also committed to be active in conducting research. Many of our studies have been published in highly-respected journals and resulted in patent for phytopharmaceutical product (Remapo by Prof. dr. Nyoman Kertia). To support activities in international publication, currently we also publish our own international journal, namely Acta Interna.

Chair’s Message

“Our department has a mission to improve the quality of professional education of Internal Medicine Specialist in accordance with the national competency standards and to implement activities and community service in a professional manner. To achieve this mission, the services provided by the Department of Internal Medicine are constantly updated and refined through improvement in infrastructure as well as improving the quality of human resources through capacity building of physicians and researchers and provision of training facilities. As chairman of the department, this will be our never ending tasks”

Prof. Dr. dr. Nyoman Kertia, Sp.PD-KR

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950’s</td>
<td>Department of Internal Medicine established at Pugeran Hospital</td>
</tr>
<tr>
<td>1973</td>
<td>Residency program was firstly launched</td>
</tr>
<tr>
<td>1980’s</td>
<td>Moved to Dr Sardjito Hospital</td>
</tr>
<tr>
<td>1999</td>
<td>First renal transplant performed</td>
</tr>
<tr>
<td>2005</td>
<td>HIV services clinic launched</td>
</tr>
<tr>
<td>2012</td>
<td>Services for Diabetic foot launched</td>
</tr>
</tbody>
</table>
Department of Medical Education

National and International Leadership for Better Medical and Health Professions Education and Services

Profile

The Department of Medical Education (DME) was established in 2005. This Department was the first medical education department established in Indonesia. In 2006, the first Master Program in Medical Education in Indonesia was established in this department. Since its establishment, DME has been steadily growing and continues to lead in medical and health profession education majors in national level and have pioneered several national bodies and educational strategies such as AIDIPROKESI, ISLaND, National Standard of Medical Doctor Competency (SKDI), Indonesian National Committee of Medical Students Competence Assessment Indonesia, Indonesian Journal of Medical Education (Jurnal Pendidikan Kedokteran Indonesia). Key staff members also play active roles in AIPKI, BSNP, and the National Board of Primary Doctors (Dokter Layanan Primer).

Nowadays, DME has six PhDs in Medical Education, two PhD candidates and more than five Masters in Medical Education with several adjunct faculty members who contribute significantly at national and international levels, such as in the World Federation of Medical Education (WFME), Association of Medical Education in Europe (AMEE), LINQED, South East Asian Regional Association in Medical Education (SEARAME), and ASEAN University Network-Quality Assurance (AUN-QA). With four faculty members as FAIMER fellows, DME is currently preparing to be the first FAIMER Regional Center in Asia-Pacific.

DME is also leading in research in medical and health education domains such as in teaching-learning, learning resources, assessment-program evaluation, curriculum development,
Chair’s Message

National and international challenges in the 21st Century and beyond are the basis for the Department of Medical Education to set its vision to become leaders in medical and health profession education in ASEAN, Asia and the World as well as to set its mission to provide excellent education and training programs, high quality research, and best consultancy-community services for all its stakeholders.

To pursue this vision and mission, DME has embarked on its continuous quality improvement efforts in human resources development, facilities and infrastructures set up, as well as programs, systems and services strengthening.

Having been established in 2005, DME has the privilege to pool young, passionate, value-based and enthusiastic academic and supporting staff. These are invaluable assets that will sustain this Department in the years to come and boost the Department’s engagement in national and international endeavors to improve quality of education which will eventually improve the quality of human life.

“Tut Wuri Handayani” (Let the students lead the way)-Ki Hajar Dewantara

This message emphasized the heart and the core abilities of a teacher to promote the student-centered learning principle

dr. Gandes Retno Rahayu
MMedEd, PhD

and management-leadership in health profession education. Hundreds of research have been done by the academic staff and students, and many has been published in reputable journals in national and international level such as Medical Teacher, Education for Health, South East Asian Journal of Medical Education, Indonesian Journal of Medical Education, and the others. Patent products in medical and health professions education also achieved as results of collaboration between academic staff and students.

At faculty level, DME also assists the faculty executives in developing/innovating curriculum, student assessment, Community and Family Health Care (a community-based inter-professional education program), and skills laboratory. Through a passion in leading and developing the flow of medical and health professions education, our motto is: “Strive for Better Medical and Health Professions Education”

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>Department of Medical Education (DME) established as the first DME in Indonesia</td>
</tr>
<tr>
<td>2006</td>
<td>Masters in Medical and Health Profession Education started as the first Master program in Medical Education in Indonesia</td>
</tr>
<tr>
<td>2007</td>
<td>The Indonesian Journal of Medical Education established – the first accredited journal in medical education in Indonesia</td>
</tr>
<tr>
<td>2009</td>
<td>dr. Titi Savitri P, MA, MMedEd, PhD appointed as SEARAME (South East Regional Association of Medical Education) Executive Committee, and later the Vice President (2015)</td>
</tr>
<tr>
<td>2010</td>
<td>dr. Titi Savitri P, MA, MMedEd, PhD appointed as Senior Trainer and Chief Quality Advisor in ASEAN University Network Quality Assurance</td>
</tr>
<tr>
<td>2012</td>
<td>dr. Gandes Retno Rahayu, MMedEd, PhD appointed to be LINQED Executive Committee</td>
</tr>
<tr>
<td>2013</td>
<td>dr. Mora Claramita, MHPE, PhD received the Lyn Clearihan Awards for the best paper in Asia Pacific Family Medicine Journal 2011</td>
</tr>
<tr>
<td>2013</td>
<td>The Indonesian Association of Health Profession Education (Asosiasi Ahli Pendidikan Profesi Kesehatan Indonesia-AIDIPROKESI) established and chaired by dr. Titi Savitri P, MA, MMedEd, PhD</td>
</tr>
<tr>
<td>2013</td>
<td>dr. Gandes Retno Rahayu, MMedEd, PhD, dr. Yoyo Suhoyo, MMedEd and dr. Rachmadya Nurhidayah, MSc lead the national committee of Indonesian Medical Doctors Competence-Based National Examination</td>
</tr>
<tr>
<td>2013</td>
<td>dr. Widyandana, MHPE, PhD appointed to be Chairman of the Indonesian Skills Laboratory Network and Development (ISLaND)</td>
</tr>
<tr>
<td>2014</td>
<td>dr. Titi Savitri P, MA, MMedEd, PhD appointed to be a WFME Senior Advisor</td>
</tr>
<tr>
<td>2014</td>
<td>FAIMER Fellow Grants received by dr. Gandes Retno Rahayu, MMedEd, PhD, dr. Mora Claramita, MHPE, PhD, dr. Titi Savitri P, MA, MMedEd, PhD and dr. Yoyo Suhoyo, MMedEd.</td>
</tr>
<tr>
<td>2014</td>
<td>Fulbright Senior Scholar dr. Mora Claramita, MHPE, PhD led the national initiatives towards strengthening primary care services and became the member of National Board of Indonesian Primary Care Doctors</td>
</tr>
<tr>
<td>2014</td>
<td>dr. Gandes Retno Rahayu, MMedEd, PhD appointed as the Indonesian representative for AMEE (Association of Medical Education on Europe)</td>
</tr>
<tr>
<td>2014</td>
<td>An inter-professional education called : Community and Family Health Care (CFHC) Program started and led by dr. Ova Emilia, MMedEd, PhD</td>
</tr>
<tr>
<td>2015</td>
<td>The Best Department for Financial Management granted by the Faculty of Medicine, UGM</td>
</tr>
</tbody>
</table>
Department of Medical Surgical Nursing

Patient-centered care for better patients’ quality of life

Bedside teaching by a lecturer for the internship students. The lecturer performs diabetic wound care management at the mini hospital, a skills laboratory for the nursing students.

Story behind the picture

Becoming a medical surgical nurse requires mastering various skills that can be achieved through quality education. The picture above is capturing one of our teaching activities, i.e., a bedside teaching with a scenario on diabetic wound care management. Wound care is one of important skills for nurses, not only in medical ward but also in surgical ward.
Department of Medical Surgical Nursing is a new department in Faculty of Medicine UGM. Previously, this department was still a division when the Department of Nursing was established in 1998. The medical surgical nursing division was first integrated within the sub-department of emergency and critical nursing. However, since 2008 it became a separate division on Medical Surgical Nursing.

Currently, we have seven academic staff members with Master and PhD qualifications. Our teaching activities focus on the undergraduate program and master program in nursing with research embedded in all levels of education. We conduct research in priority areas, such as cancer care, long-term care, palliative care, chronic disease management and prevention, infection control, infectious disease and stroke. Through research and education, we make our best effort to improve clinical services. In 2015, we produced more than 10 publications, consisting of paper presentations, journals and textbooks. Continuing education to update our research skills is implemented through workshops and joint research, involving colleagues from Dr. Sardjito Hospital, UGM Hospital, Soeradji Tirtonegoro Hospital, and Banyumas district Hospital. Training and educational programs are also held for the purpose of community services, such as programs to improve the capacity of health cadres and residents in community on disease prevention, rehabilitation, and long-term care management.

International atmosphere in Nursing has been strengthened through collaborations with overseas institutions. Annually, we invite professors from Radboud University (The Netherlands), Anglia Ruskin University (United Kingdom) and NCKU (Taiwan). These collaborations are significant to boost our international research collaborations in palliative care, chronic care management and prevention, and other areas. International exposures also benefit students and academic staff through academic exchange, and international conference.

Starting from 2015, the department offers Master Program in Nursing, majoring in Medical Surgical Nursing. Our goal is to produce professional medical surgical nurse graduates, able to contribute to a better patient-centered care nursing services.

**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>Medical Surgical, Emergency, and Critical Nursing Divisions were Part of the Department of Nursing, Faculty of Medicine</td>
</tr>
<tr>
<td>2005</td>
<td>The first standardized nursing language (Nanda, NOC, NIC) seminar in Indonesia conducted</td>
</tr>
<tr>
<td>2008</td>
<td>Research collaboration granted by Sigma Theta Tau</td>
</tr>
<tr>
<td>2010</td>
<td>The first palliative care seminar in Indonesia initiated</td>
</tr>
<tr>
<td>2014</td>
<td>The first international palliative conference conducted</td>
</tr>
<tr>
<td>2015</td>
<td>Master program in Nursing, majoring in Medical Surgical Nursing established</td>
</tr>
<tr>
<td>2016</td>
<td>Department of Medical Surgical Nursing established</td>
</tr>
</tbody>
</table>
Department of Mental Health and Community Nursing

Serving the community to create a healthy nation

A group of nursing students provide health care in community

Story behind the picture

Nurses from the Department of Mental Health and Community Nursing provided care to individuals with mental health problems. The elderly and adults were treated in their family, community, hospital and nursing home. Becoming a mental health and community health nurses require mastering diverse skills that are applied to the clients in primary and secondary health services, as well as in the community. The picture above is capturing one of an integrated health care activities in the community.
**Profile**

Department of Mental Health and Community is a new department in the Faculty of Medicine, UGM. This department integrated two sub-departments (Mental Health and Community Nursing) in the Department of Nursing, established in 1998.

Recently, our department consists of 8 academic staff members with Master and PhD qualifications. Our research strategic plan articulates major research topic in mental health areas, such as disaster mental health nursing, community mental health nursing, care of mental health nursing in hospital, smoking cessation behavior, vulnerable family, elderly nursing care in family and nursing home setting, and nutritional problems in community. Our staff also conduct clinical services through research and publication. In 2015, we published more than 20 publications, consisting of paper presentations, journals and textbooks. Our collaboration with mental health nurses in teaching hospitals, such as Dr Sardjito Hospital, UGM Hospital, Soeradji Tirtonegoro Hospital, and Banyumas Hospital through joint workshops, research, surveillance training also enhance our research performance and competence. In addition, efforts to strengthen our international network has been carried out by collaborating with James Cook University (Australia), Kobe and Kobe Women University (Japan) and University of Boras (Swedia).

To fulfill our responsibility to the community, we conduct training and educational programs for health cadres and residents in the community focusing mainly on mental health treatment in home care setting.

**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>Mental Health Division and Community Nursing Division established as part of the Department of Nursing, Faculty of Medicine</td>
</tr>
<tr>
<td>2005</td>
<td>The first standardized nursing language (Nanda, NOC, NIC) seminar in Indonesia initiated</td>
</tr>
<tr>
<td>2005</td>
<td>The Jogjakarta Mental Health Nursing Association established and the National Conference of Indonesian Mental Health Nursing organized and led by the division</td>
</tr>
<tr>
<td>2016</td>
<td>Department of Mental Health and Community Nursing established</td>
</tr>
</tbody>
</table>

**Chair’s Message**

I would like to welcome you to the Mental Health and Community Nursing Department, Faculty of Medicine, UGM. Our department offers a supportive learning environment in bachelor degree in nursing. Students have broad opportunities to enhance their critical thinking and skills, supervised by highly-qualified staff. We invite you to improve the quality of nursing education, research, and services at the Department of Mental Health and Community Nursing, Faculty of Medicine UGM.

Dr. Ibrahim Rahmat, SKp, SPd, MKes
Department of Microbiology

Enhancing Technology to Combat Infectious Diseases

Story behind the picture

The picture above was taken from “The Sepsis Study” that was started in late 2013 in Thailand. The study was then continued in Vietnam and Indonesia with supports from Ministries of Health of Indonesia, Thailand, and Vietnam, as well as the South East Asia Infectious Disease Clinical Research Network (SEAICRN) global partners, including the US National Institute of Allergy and Infectious Diseases, the Wellcome Trust, and the World Health Organization (WHO).

Conducted by the SEAICRN, the sepsis study seeks to identify the causes and outcomes of sepsis, improve its treatment, and help public health authorities and medical researchers across South East Asia to better respond to other potentially deadly public health threats in South East Asia as new infectious diseases emerge.

Other study which was also supported by WHO, are AFIRE (Acute febrile illness that require Hospitalization), and Tripod (Tuberculosis research of Ina-respond on drug resistance).

Profile

Our vision is to become Indonesia’s leading center of excellence in the field of clinical microbiology, which is scientific cultured, high quality, and represent the soul of local wisdom by 2020.

These are the eminent services at the Microbiology Department:

- Provide microscopic examination: Direct examination, gram staining, acid fast bacillus staining (AFB), staining for specific microorganism: Diphtheria, yeast and other fungi, bacterial spore, capsule etc.
- Dark field microscope for direct observation of Leptospira
- Culture and identification of aerob and non aerobic bacteria, including fastidious microorganism, such as Helicobacter pylori, S. Pneumoniae etc.
- Antibiotic susceptibility test of bacteria
- Antifungal susceptibility test of fungi
- Examination of drinking water
- To explore the potency of antimicrobe for new drug, including antibacteria, antifungal and anti TB
Chair’s Message

I am very happy to welcome you and to introduce our department. One of our missions is to develop advance microbiology in Indonesia, through education, research and community service. We are actively involved in the education of undergraduate, postgraduate and clinical specialist programs. Starting in 2010, we also have clinical microbiology specialist program that educate general practitioners to become clinical microbiology specialist (SpMK). Clinical microbiologist eagerly contribute to ideas and actions to improve the quality of the infectious diseases management in Indonesia.

Various studies are currently being conducted by our faculty staff. In addition, the number of national and international research collaboration has also been improving, always be greeted with enthusiasm and with confidence that collaboration will always provide strength and broaden our insights. Thank you for visiting our profile. We welcome you with a warm presence in our department.

For more detail information please visit our website: www.microbiol.fk.ugm.ac.id

dr. Tri Wibawa, Sp.MK.,Ph.D

Examination of antigenemia and Viruria of Cytomegalovirus (CMV)
Molecular identification for Rotavirus
Molecular identification of MDR TB (Xpert MTB/RIF) and Drug Susceptibility Test of M. Tuberculose
Identification Biofilm-Forming capability of microorganism
Monitoring the numbers of germs in the Hospital
Monitoring career / food born diseases on nutritional installation staff/ Food Company
Monitoring of microbial hospital waste management

In addition, many collaboration research were performed in our department, such as the following research in virology:

Surveillance Rotavirus causes diarrhea, “Extension for Hospital-Based Surveillance and strain characterization of Rotavirus Diarrhoea in Indonesia” held since 2009 until now, in collaboration with WHO-SEARO. This project aimed to develop vaccines against rotavirus in the stage of clinical trials Phase IIb, in collaboration with the Murdoch Children Research Institute and PT. Biofarma.

Dengue virus, “Genotyping and phenotyping of dengue virus to Predict the severity and clinical manifestation of dengue virus infection” and “Association of polymorphisms of DC-SIGN (CD209) Carbohydrate Recognition Domain with Dengue Virus Infection.”

Identification of secondary metabolites of fungi Actynomycetes that have potential anti-dengue.
IDAMS (International Research Consortium on Dengue Risk Assessment, Management and Surveillance)

Bacteriology research:

Comparison of the potential combination of imipenem and other antibiotics with a time-killing curve test, checker board and E-test for antibiotic multiresistant isolates of Acinetobacterbaumannii
Evaluation of the use of Xpert MTB/RIF in diagnosing TB for children: Operational research (funded by the Global Fund)
National Program of TB care: Lab examination of TB MDR and TB HIV (supported by the Global Fund)
The Prevalence of CLABS (Central line associated blood stream infection) among patient in NICU, Sardjito hospital (in collaboration with BioMedical Engineering Dept, UMCG, The Netherlands)
Antibiotic resistance in gram-negative ESBL, AmpC and MBL clinical isolates of Pseudomonas sp.

Mycology (Fungi) research:

Antifungal effects and its mechanism: (1) -N-2-metoksibenzi1,10-fenantrolinium bromide on planktonic cells and biofilms of Candida albicans cells
Characteristics of virulence factors in C. albicans

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Clinical Microbiology Specialist Program launched</td>
</tr>
<tr>
<td>2014</td>
<td>Research collaboration with US National Institute of Allergy and Infectious Diseases, the Wellcome Trust and the World Health Organization (WHO) undertaken for three research projects</td>
</tr>
<tr>
<td>2014</td>
<td>Development of Rotavirus vaccines Phase IIb, in collaboration between the Murdoch Children Research Institute, Pediatric research office and PT. Biofarma</td>
</tr>
</tbody>
</table>
Department of Neurology

Neurology for better life

Story behind the picture

Neurology department was built by our founding pioneers: Dr. Soeharso, Dr. Lucas Mellala and Dr. M. Landung Soebijantoro (A). Within department of neurology we have various activities in order to improve the patient quality of life. Picture number B1 Cognitive stimulation is conducted by experienced staff to improve the cognitive performance of patient with history of brain insult. Picture number B2 Acute stroke patient is closely monitored by senior staff and residents in Stroke Unit. Picture number B3 Electroneuromyography (ENMG) examination aimed to assess the functional condition of peripheral nerve that is useful for determining a further management in patient with peripheral nerve injury.

A. Founding pioneer department
B1. Cognitive stimulation
B2. Acute stroke patient monitor by senior staff
B3. Electroneuromyography (ENMG)
Profile

At the beginning of its establishment in 1950, Department of Neurology together with Department of Psychiatry became one department, chaired by Prof. dr. Soerojo. Along with the rapid development of neuroscience and psychiatric science, Department of Neurology was separated from Department of Psychiatry in 1977. The founding pioneers of our department were the ‘trio’ of Dr. Soeharso, Dr. Lucas Meliala and Dr. M. Landung Soebijantoro.

Department of Neurology currently has ten divisions, aligned with the study groups in the Indonesian Neurologists Association (Persatuan Dokter Saraf Indonesia-Perdossi). With a total of 26 staff dedicated to education, research, and clinical care (consisting of four professors, two PhDs, and five 5 Doctorates), we hope to fulfill our missions.

Our department has developed a Stroke Unit, Memory Clinic, Sleep Clinic, and Electromedic Clinic (Electrophysiology clinic consist of Polysomnography, EEG-Brain Mapping, EMG/ENMG, and Evoked Potential) that support education, research, and clinical care in neurology. We have several modality in neurorestoration such as interactive and computerized cognitive stimulation, and also Transcranial Magnetic Stimulation (TMS). We also implement Bobath concept as one of the integrative management for motor rehabilitati on especially in poststroke patients, together with physical and occupational therapy conducted by the Rehabilitation Medicine Unit. We also implement Transcranial Doppler (TCD) examination for diagnostic and evaluation especially in cerebrovascular disease.

We are committed to research through improving quality of research and increasing number of international publications. Some academic staff are also active in activities such as writing textbooks about various aspects of neurology such as stroke and vertigo, developing stem cell center at Faculty of Medicine/DrSardjito hospital and conducting endovascular intervention.

We are committed to continuously improve quality of clinical care, education, and research to become the forefront in neurology.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>Department of Psychiatry established</td>
</tr>
<tr>
<td>1960</td>
<td>Neurology-Psychiatry wards were separated from the Internal Medicine wards in Pugeran Hospital</td>
</tr>
<tr>
<td>1977</td>
<td>Department of Neurology was separated from the Department of Psychiatry. Neurology ward was moved to Mangkubumen hospital.</td>
</tr>
<tr>
<td>1982</td>
<td>Neurology wards and clinics were moved to Dr. Sardjito Hospital</td>
</tr>
<tr>
<td>1986</td>
<td>Department of Neurology became the center for neurology specialist education</td>
</tr>
<tr>
<td>2004</td>
<td>Stroke Unit and Electromedic Clinic established</td>
</tr>
<tr>
<td>2005</td>
<td>Memory Clinic established</td>
</tr>
</tbody>
</table>
A surgery was carried out on a patient with abdominal tumor, suspected as ovarium origin.

The patient was referred to Dr. Sardjito Hospital due to abdominal tumor. During examination, the tumor is suspected as ovarium origin.

The patient was treated following the best currently available evidence with debulking surgery and frozen section examination. The frozen section showed that the tumor was malignant. Therefore, a surgery was performed with surgical staging procedure by removing the uterine para-aortic and pelvic lymph node, omentum and peritoneal biopsies. The surgery was done with our best expertise.

In educating the profession of Obstetrics and Gynecology we prioritize the best quality of patient management, in parallel with conducting research for the benefit of our patients in the future.
DEPARTMENT PROFILE

**Chair’s Message**

We are committed to improve our quality of education. One of our strategies is by collaborating with several education centers for Obstetrics and Gynecology, such as the Royal College of Obstetrics and Gynecology (RCOG) in England. Our curriculum is designed in modules following the standard from Indonesian Obstetrics and Gynecology Society and RCOG. Research is always our priority. We have important collaborators from all over the world to promote high quality research in Obstetrics and Gynecology. Through education and research improvements, we hope to improve quality of clinical care services, including maternal health care, gynecology oncology care, infertility clinic, urogynecology management and Obstetrics & Gynecology surveillance and health promotion.

For more detail information please visit our website: www.obgin-ugm.com

dr. R. Detty Siti Nurdiati, Sp.OG(K), MPH.,PhD

**Profile**

Department of Obstetrics and Gynecology (Obsgyn) was established in March 5th 1946 in Klaten. At that time the school was named Perguruan Tinggi Kedokteran. When the school moved to Yogyakarta, the Department of Obstetrics was one of the pioneers. Therefore, we have been conducting teaching and practice excellence for 70 years.

Many key milestones have been achieved. Currently, the Department of Obgyn has five divisions: Maternal Fetal Medicine, Fertility, Endocrinology and Reproduction (FER), Social Obstetrics, Gynecology Oncology, and Urogynecology & Reconstructive Surgery. Since 2005, Department of Obgyn has also been able to provide subspecialty training in FER, followed by the subspecialty training in Social Obstetrics since 2010. To fulfill our commitment to improve quality of education, one of our strategies is to collaborate with international education center for Obstetrics and Gynecology, such as the Royal College of Obstetrics and Gynecology (RCOG) since 2012. Our curriculum is designed in modules following the standard from the Indonesian Obstetrics and Gynecology Society and RCOG. We hope that these efforts will also result in improved quality of care.

Service and teaching activities in the division of Maternal Fetal Medicine and FER are mainly located in Gedung Bedah Sentral Terpadu (GBST) since 2002. The center for Fertility (Klinik Permata Hati) firstly conducted in vitro fertilization (IVF) in 1997, and currently becomes one of the best fertility center in Indonesia. Our commitment to excellence in teaching and medical service is supported by research. Therefore, the Obstetrics and Gynecology Research Unit (ORU) plays an important role to support the research system in this department. In 2012-2015 ORU and the Clinical Epidemiology & Biostatistics Unit became the leading research institution that held Cochrane systematic reviews in Indonesia.

We now have in total 54 academic staff dedicated in teaching, service and research, including five Full Professors, four PhDs, 20 consultants, and five specialists in Sardjito-Faculty of Medicine UGM, and also another 25 Specialists in our affiliated hospitals. With adequate number of staff, the ratio of teacher:residents is now ideal, 1:1.87.

Our department has key partners in education, research and clinical services, such as the Dutch School, The Hague Hospital, Taipei Medical University, Umeå University, UNFPA, RCOG, IARC, NCId and many others. Active collaborations are in place through staff exchange, academic and research collaborative research to improve quality of our teaching, research and service performance.

**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>1946</td>
<td>Department of Obstetrics and Gynecology established</td>
</tr>
<tr>
<td>1959</td>
<td>Specialty training in Obstetrics and Gynecology started</td>
</tr>
<tr>
<td>1997</td>
<td>First IVF successfully conducted</td>
</tr>
<tr>
<td>2002</td>
<td>Permata Hati clinic for infertility established</td>
</tr>
<tr>
<td>2005</td>
<td>Subspecialty training launched</td>
</tr>
<tr>
<td>2012</td>
<td>MoU with RCOG signed to provide MRCOG-I examination</td>
</tr>
<tr>
<td>2012</td>
<td>Obstetrics and Gynecology Research established</td>
</tr>
</tbody>
</table>
Department of Ophthalmology

Better Ophthalmology Service through Better Education, Research and Community Service

Story behind the picture

Our activity in JOGED.COM involves residents, co-assistants and medical students together to conduct Diabetic Retinopathy (DR) screening and general eye check for diabetic persons in the community. At the same time, we collect data for the epidemiology of DR in the community and train residents to assess and give education on prevention of diabetes-related blindness.
Our department has five missions, i.e. improving education and training in Ophthalmology, pursuing high impact research and development in Ophthalmology, enhancing community services to improve eye health status of local community, strengthening internal management and nurturing welfare of faculty member based on professionalism.

On education and training, we train undergraduate medicine and general Ophthalmologist. Currently, our Department has graduated nearly 200 ophthalmologist who served the community across the nation and has achieved rapid growth in terms of annual workload of more than 200,000 outpatient visits, 5,000 major eye surgeries and 7,000 outreach cataract surgeries. To ensure high quality of care, we regularly delivers seminars, workshops, or scientific meeting at the national or regional level, at least twice a year.

Without research, advancement of science and care in Ophthalmology would have not occurred. In our department, our key research is the development of new DR screening method using automated Rapid Assessment of Diabetic Retinopathy (RADR) system, and novel glaucoma implant. Also, studies on identification of potential gene-environment interactions between exogenous progesterone and the incidence of orbito-cranial meningioma among the Indonesian females and application of collage cross linking in cornel ulcer and keratoconus are being carried out.

Integrating activities in research, education and community services has been our strength. Supported by our partners, the academic staff have constantly been involved and provided mass cataract surgery and DR screening in the community throughout the country.

Ophthalmology department received the Award for Excellence amongst all departments within the Faculty of Medicine in two consecutive years (2014 and 2015).

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1950</td>
<td>Eye service began in Balai Pengobatan Mata and eye clinic at Jenggotan and Kidul Lodji</td>
</tr>
<tr>
<td>1954</td>
<td>The first ophthalmology resident commenced the training and finished in 1958</td>
</tr>
<tr>
<td>1978</td>
<td>Standardized and structured Consortium of Health Science curriculum for residents incorporated into the training, few years before moving to Dr Sardjito hospital</td>
</tr>
</tbody>
</table>
Department of Parasitology

Innovation in Parasitology to Improve Public Health

Story behind the picture

One effective way to control dengue is by breaking the transmission chain to control vectors. The instrument will collect and count the number of pupae in larger water reservoirs, prevailing over the difficulties in surveillance activities for the past years. Pupal-based dengue vector surveillance using Gamadotik vacuum is principal due to several reasons: quantification of vector population density as Pupal Index, identifying water reservoirs that play major contribution in enhancing vector population, and both reducing the vector density and filtering the water collected altogether. The collected pupae may further be evaluated for its dengue virus capacity and insecticide resistance status.

Gamadotik, a mosquito larvae vacuum manufactured by the Department of Parasitology, Faculty of Medicine Universitas Gadjah Mada. The instrument is most useful for surveillance of dengue vectors.
Profile

Human resources in the Department of Parasitology consist of two staff with master degree, 6 PhDs, one professor, along with nine technicians and the support staff. From its establishment, the Department of Parasitology has been contributing to education, research and community service. Educational system for undergraduate program is based on Problem-Based Learning system, while for the advance learners we contribute to master programs in Tropical Medicine, Basic Medical Science and Biomolecular (majoring in Parasitology), Public Health, Specialist physician education program and the doctoral program.

Research work is conducted both independently and in cooperation with local institutions and international partners. Current advance research works are: development of recombinant proteins for serologic malaria transmission measurement, identification of transovarial dengue transmission using monoclonal antibody, and detection of mosquito resistance to insecticides using biological, biochemical and molecular assays.

Community service has always been carried out in accordance with community needs to control the transmission of parasitic diseases, such as improving community role in dengue surveillance in Minomartani Village, malaria elimination program coordinator in Kulon Progo, and screening of intestinal parasite infestation in Central Maluku.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1993</td>
<td>Monoclonal antibody of Brugia malayi developed</td>
</tr>
<tr>
<td>1994</td>
<td>Plasmodium Cultivation method in vivo and in vitro in Parasitology laboratory established</td>
</tr>
<tr>
<td>1996</td>
<td>Monoclonal antibody for detection dengue virus in mosquitoes based immunohistochemistry (IHC) method developed</td>
</tr>
<tr>
<td>2000</td>
<td>In vivo and in vitro antiplasmodial activity test conducted</td>
</tr>
<tr>
<td>2002</td>
<td>Mapping on biodiversity of mosquitoes vector produced</td>
</tr>
<tr>
<td>2009</td>
<td>Serology measurement for malaria transmission intensity developed</td>
</tr>
<tr>
<td>2014</td>
<td>Detection of mosquito insecticide resistance using biological, biochemistry and molecular assay developed</td>
</tr>
<tr>
<td>2016</td>
<td>Recombinant protein of Plasmodium sp for malaria serology measurement developed</td>
</tr>
</tbody>
</table>

Chair’s Message

“Indonesia as a tropical country has never been exempted from diseases caused by parasites. Striving against malaria and other infectious diseases is one of the MDGs targets and still not yet achieved entirely. Department of Parasitology, Faculty of Medicine, Universitas Gadjah Mada excels in parasitic and vector borne disease control in Indonesia. With advanced laboratory facilities and qualified human resources, Department of Parasitology has conducted a variety of research and community services to support the government in eliminating parasitic diseases. Every single activity is also supported by a teamwork of the leader and staff which has always been fostered in improving the quality of work. Informal regular meetings between staff while having meals and breaks allow discussions and flow of information regarding current research and even personal issues. Let the good work commence.”

Tri Baskoro Tunggul Satoto, dr, MSc.,PhD.
Department of Pediatric and Maternity Nursing

Qualified nurses for a better maternal and child health

Bedside teaching about antenatal care for nursing students undertaking maternity internship
Pediatric Nursing and Maternity Nursing have been embedded in School of Nursing, Faculty of Medicine since 1998. Later in December 2015, Pediatric Nursing and Maternity Nursing were merged into one department, The Department of Pediatric Nursing and Maternity Nursing. The department consists of two divisions as embedded in the name. These divisions conduct education, research and community services (Tridarma Perguruan Tinggi) for bachelor degree in nursing since 1998 and Master of Nursing since 2012.

Our vision in 2020 is to become a center of development in national, regional and international level for pediatric nursing and maternity nursing in education, research and community services based on Indonesian culture and humanity. To achieve the vision, the department has a strategic plan to develop research on anemia management model for pregnant women, health reproduction for adolescent, child and maternity health in disaster, comprehensive nursing care for unhealthy child and child with special needs, child growth and development based on family centered care, palliative care for children and family, and nursing intervention based on local wisdom.

The department has several important collaborations with many institutions in national and international level to enhance education, research and community services. Our department has ten lecturers, half of them are PhDs in nursing and the rests are Masters and Specialists in nursing. Our lecturers have also published many research articles in international journals.

**Profile**

Improving competencies in pediatric nurses and maternity nurses is critical in managing child and maternal health problems in Indonesia. As one of the departments in School of Nursing, Faculty of Medicine, pediatric nursing and maternity nursing department contributes to produce highly qualified nurses through innovative and evidence-based learning process. Our department also provides community services such as nursing care, consultation, and training.

**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1998</td>
<td>Pediatric nursing and maternity nursing as sub-divisions of the Nursing department, Faculty of Medicine Universitas Gadjah Mada established</td>
</tr>
<tr>
<td>2012</td>
<td>Master program in Nursing, majoring in maternity nursing and pediatric nursing started.</td>
</tr>
<tr>
<td>2015</td>
<td>Department of Pediatric nursing and Maternity nursing established</td>
</tr>
</tbody>
</table>

**Chair’s Message**

Fast improvement of nursing science especially in the field of pediatric nursing and maternity nursing, as well as high community demand on excellent nursing care, are challenging for us to improve quality of education. We are committed to increase quality and quantity of our human resources, through continuing education, academic writing to produce proposal and scientific publication, and collaboration with reputable institutions. In the future, we hope to have an excellent program that contributes to increasing the competence of professional nurses in pediatric nursing and maternity nursing.

Lely Lusmilasari, SKp, MKes, PhD
Department of Pharmacology and Therapy

Providing Excellence in Education and Research on Pharmacology

Excellent research will support excellent education. The education of medical doctor and other health professional who are excellent in pharmacology and scientist who are capable to conduct cutting edge biomedical research requires broad base education in various aspects of pharmacology and therapy. Supported by competent lecturers and skilled supporting staff, we are prepared to offer the best education for our students.

Story behind the picture

High-Performance Liquid Chromatography for identifying and quantifying of drugs and other substances
Profile

Department of Pharmacology and Therapy has a long history. Teaching of pharmacology started in March 4th 1946, and pharmacology subject was called “Drug Efficacy”. The working group of Clinical Pharmacology was established in 1979, and developed into Department of Clinical Pharmacology in 1987. The Department of Pharmacology was then developed into Department of Pharmacology and Toxicology. The pharmacy section which was developed in 1950 to serve public and clinical rotation of medical students had been developed into Department of Medical Pharmacy in 1970. Department of Pharmacology and Therapy was merged from these three departments in 2009, initiated by the Dean.

Our department offers a wide range of undergraduate and postgraduate study option since we have staff working in the field of laboratory, clinical, community, and policy research. We even have research activities in collaboration with industry.

Most of our staff take part in national and international board, such as vice rector, National Committee on Drug Evaluation, National Committee on Indonesian Drug Informatory, Member of the International Narcotics Control Board, Board of Governor of International Clinical Epidemiology Network, Chairman of National Committee on Health Insurance for the Poor (Jamkesmas) Drug Formulary, National Committee on Patient’s Safety in Hospital, National Committee on Traditional Medicine Evaluation, Medical and Health Research Ethics Committee, and Regional Trainer on Good Clinical Practice.

Our laboratory has capacity to support various research topics from preclinical to clinical study, supported by excellent equipments and skilled technicians. Animal facility, clinical study room, cell culture facility, drug and substance assay in biological fluid facility, herbal medicine research facility, genomic to proteomic research facility are some of our facilities to support research in pharmacology.

In 2015, we enrolled two of our laboratory methods, i.e. acute oral toxicity test and Bioavailability-Bioequivalens test, for accreditation from national accreditation comittee (Komite Akreditasi Nasional/KAN). We are now in the process to obtain accreditation for those two methods.

Many of our research were published in high impact national and international journals. This leads the department to be in the third rank of department with highest journal publications in the Faculty of Medicine.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>Pharmacology and Therapy Department established, merging three departments</td>
</tr>
<tr>
<td>2010</td>
<td>National meeting for Indonesian Pharmacology Society (Ikatan Ahli Farmakologi/IKAFl) hosted</td>
</tr>
<tr>
<td>2014</td>
<td>Patent for pasak bumi as aphrodisiac obtained</td>
</tr>
<tr>
<td>2014</td>
<td>National accreditation for acute oral toxicity and BA/BE test proposed</td>
</tr>
<tr>
<td>2016</td>
<td>The BPOM’s award (an award from Indonesian National Agency for Drug and Food Control) received by two faculty members</td>
</tr>
</tbody>
</table>
Department of Physiology

Revealing the Human Body Phenomenon

Measuring various body functions in adolescent in order to revealing human body phenomenon

Story behind the picture

Department of Physiology performs several studies to reveal the phenomenon in human body. One of the studies was conducted to understand the effect of coffee consumption containing caffeine or decaffeinated in young adults. This study illustrates our efforts to keep up with the lifestyle that can affect the human body physiologic functions in relation to study of diseases risk factor. Results from these studies can improve lifestyle as preventive modality.

This picture is only an example of many studies conducted in the Department of Physiology that reveal the phenomenon of the human body, from cell to system and organism.
Profile

Department of Physiology is one of a few departments which became the forerunner of the Medical Faculty Universitas Gadjah Mada. The history of Department of Physiology was started back in 1946, during the resolution of independence. Nowadays, we have nine active staff, consisting of five PhDs, and three PhD candidates and one Master qualification. We are also supported by one Professor emeritus and two Senior Lecturers. Our department has two divisions, namely Division of Integrated Physiology and Division of Applied Physiology. Division of Integrated Physiology focuses on studies of various system organs in the human body. Division of Applied Physiology focuses on application of the Physiology, such as Work Physiology, Environmental Physiology and Exercise Physiology.

Our commitment is facilitating the students to enrich their knowledge in Physiology. In the undergraduate programme, in addition to giving lectures, we also provide some practical sessions to stimulate critical thinking. In order to reveal the human body phenomenon, we invite students in Master and Doctorate programme to work together in research related to Physiology, from molecular, cellular to the whole aspects of human body.

We provide three laboratories (in vivo, in vitro and human body system) to support research in Physiology field. We also perform multi disciplinary research, as well as build networking with other institutions. In vivo laboratory provides various facilities to conduct a study using small animals, such as mice, rats and cats. The laboratory equipments enable researchers to conduct research in behavior, exercise and cardiovascular Physiology. In vitro laboratory provides facilities to conduct cellular research. The human body laboratory is equipped with ECG, treadmill, ergocycle, spirometer etc.

We commit to publish our works in highly respected journals. Until 2016 we have more than 20 international publications with increasing number in the future as our commitment to improve research performance.

Our department has routine activities such as “short course on basic cell culture”, community services, sending delegation to join an International Quiz in Physiology. In 2015, for the first time, our students won the International Quiz in Physiology.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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</thead>
<tbody>
<tr>
<td>1946</td>
<td>Department of Physiology established</td>
</tr>
<tr>
<td>1965</td>
<td>Founding the Indonesian Association of Physiologist (Ikatan Ahli Ilmu Faal Indonesia-IAlIFI)</td>
</tr>
<tr>
<td>1976</td>
<td>Center for Sport Physiology established</td>
</tr>
<tr>
<td>2005</td>
<td>Short Course on Basic Cell Culture started</td>
</tr>
<tr>
<td>2015</td>
<td>Won the international physiology quiz (IMSPQ) for the first time</td>
</tr>
</tbody>
</table>
Department of Psychiatry

No Health Without Mental Health

Committee members of 1st National Conference on Consultation Liaison Psychiatry in Hotel Inna Garuda Yogyakarta, March 8-10, 2013.

Story behind the picture

There is no health without mental health. The good mental health and resilience are fundamental to physical health. Consultation liaison psychiatry is the branch of psychiatry that specialize in the interface between general medicine and psychiatry. It has brought psychiatry very close to other departments and provided more comprehensive management to patient with physical illness. Psychiatric Department Faculty of Medicine, Universitas Gadjah Mada held The First National Conference of Consultation Liaison Psychiatry with “Excellent Psychiatry” theme in Hotel Inna Garuda Yogyakarta, at March, 8-10, 2013. This is the important achievement of our department that can run the national conference successfully.
The Department of Psychiatry is one of the centers for psychiatry specialist education in Indonesia. With comprehensive competencies in various subdisciplines, we have a broad opportunities to offer many programs. Our collaborators are also supporting initiatives to improve education, service, research and community services.

As one of the centers for psychiatry specialist education, the principal objectives of our residency training program is to prepare clinicians to master the state-of-the-art clinical skills and knowledge. In the future, psychiatrist must comprehend psychiatry differential diagnosis, medical and psychosocial treatments, and also able to understand and apply team work, management practices, and health economics. We are committed to teach our future clinicians to become successful in implementing these approaches.

Dr. dr. Carla Raymondalexas Marchira, Sp.KJ(K)

The vision of Department of Psychiatry is to become the center of psychiatric education competitive at national and international level, and to offer programs to support the development of psychiatric knowledge, research and community services in 2020.

Currently the department is developing strategies to improve the image and achievement in education, research and community services through providing facilities and capacity building programs for human resources. Three staff members (dr Mahar, dr Carla and dr Ronny) were trained at the Department of Global Health and Social Medicine Harvard Medical School, US to learn about social medicine working with Prof Byron Good and Prof Mary-Jo Good.

Staff members in our department hold several subspecialties, such as Community/Social/Culture Psychiatry, Child and Adolescent Psychiatry, Biology Psychiatry, Forensic Psychiatry, Geriatric Psychiatry, Addiction and Substance Abuse, Psychotherapy, and CLP (Consultation Liaison Psychiatry). Research activities have also been encouraged and findings from several studies have been published in books and scientific journals. Research projects has been obtained from national and international funding, for instance Early Psychosis Research (Harvard Funding), Inter-university Partnership to Improve Mental Health Care in Indonesia with Harvard and Syah Kuala Universities (USAID funding 2011-2014) and Implementation and Evaluation of an Integrated Mental Health Program at Community Health Centers In Yogyakarta (Dubai Project-Harvard University Funding 2015-2017). Seminar and national conferences on rehabilitation programs, child psychiatry, and consultation liaison psychiatry are also held by the Department.

Regarding collaboration, we continuously build efforts to expand and intensify collaborations with in-country and international partners. Through collaboration with many institutions such as Jogjakarta Special Provincial Health Office, Ghrasia Mental hospital, Banyumas District hospital, Soeroyo mental hospital in Magelang, UGM University hospital, Taipei Medical University, Department of Psychiatry Kobe University, Department of Global Health and Social Medicine Harvard Medical School in many areas (education, research and community services), we hope to be develop “Excellent Phsyicatry in this department.

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1949/50</td>
<td>Neuro-Psychiatry Department established, with Prof dr. Soeroyo from Magelang Psychiatry Hospital as the chair of department.</td>
</tr>
<tr>
<td>1959</td>
<td>Neuro-Psychiatry polyclinic and wards established by Prof FKE Kluge form Germany.</td>
</tr>
<tr>
<td>1977</td>
<td>Neurology-Psychiatry Department splitted into two departments, i.e. Department of Neurology and Department of Psychiatry. Prof Soejon was the first chair of Department of Psychiatry.</td>
</tr>
<tr>
<td>1979</td>
<td>Psychiatry polyclinic at Pugeran hospital moved to DrSardjito Hospital</td>
</tr>
<tr>
<td>1980/81</td>
<td>Psychiatric ward moved to DrSardjito Hospital until today.</td>
</tr>
<tr>
<td>2013</td>
<td>The First National Congress of Consultation Liaison Psychiatry held in Yogyakarta.</td>
</tr>
</tbody>
</table>
DEPARTMENT PROFILE

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DEPARTMENT PROFILE

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DEPARTMENT PROFILE

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DEPARTMENT PROFILE

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The demand for accurate diagnosis and minimally-invasive therapy has pushed the radiology field to the invention of CT, MRI, and nuclear imaging. CAD mammography enables spotting malignant lesions in the breast which increases diagnostic accuracy. Interventional cath-lab uses minimally-invasive yet safe method to accurately diagnose and treats vascular and non-vascular lesion. Elastography US calculates the density of a lesion to predict its malignancy. Linear accelerator produces high-energy beam to destroy malignant cells inside the body.

With these high-technology modalities, Radiology Department is proud to be a leading education and research center for radiodiagnostic, radiotherapy, and nuclear medicine.
Profile

Radiology Department was established along with the Faculty of Medicine, Universitas Gadjah Mada in 1949. During that period, the department was located in Surakarta and only in 1970, when the Radiology Department was established along with the construction of Dr. Sardjito hospital in Yogyakarta. Radiodiagnostic services started in early 1975, followed by radiotherapy service in December 21, 1975 after a radiotherapy technologist was placed in Dr. Sardjito hospital.

Dr. Arif Faisal was the Chair of Radiology Department for the period of 1987-1991 and 1992-1996. During these periods, the number of residents increased, along with the improvement of services, education, and scientific activities. New radiological equipments such as whole body CT Scan, SPECT Gamma Camera, Ultrasound unit, X-ray unit, and Mammography supported the development of this department.

Along with rapid advancement of technology up to 2015, the Radiology Department has gained stronger interest through the delivery of excellent health care and educational services. New equipments arrived to facilitate the desire the provide high quality of care, such as 64-slices multi-slice CT Scan, new cath-lab equipment, colour doppler and elastography ultrasound, CAD Mammography, Digital Radiography X-Ray, and Linear Accelerator radiotherapy unit.

Currently, the Radiology Department has 14 active radiologist staff member, two assistant staff, 67 residents, and seven foreign students from Palestine. Radiology Department has been actively participating in the educational process of medical doctor. Patient load increases with almost 250 radiodiagnostic patients per day, and 60 radiotherapy patients per day on average. Increased number of staff, students, and service facilities reveal a very promising development and advancement of the Radiology department. The department also established multi-center studies with other departments as well as other faculties and institutions. For example, collaborative research with Department of Electrical and Information Technology Faculty of Engineering and Department of Computer Science & Electronic UGM, Cancer Center Dr. Sardjito hospital, and Informatics Department, Science and Technology Faculty, State Islamic University of Sunan Kalijaga.

Service-Research Excellence

- Computer-aided Detection Mammography
- Minimally-invasive Interventional Radiology
- Elastography Ultrasound
- Linear Accelerator Radiotherapy Unit

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1946</td>
<td>Radiology Department established</td>
</tr>
<tr>
<td>2000</td>
<td>Cath-Lab for Interventional Radiology established</td>
</tr>
<tr>
<td>2010</td>
<td>64-MSCT Scan installed</td>
</tr>
<tr>
<td>2014</td>
<td>Multi-center studies with other departments- institutions established</td>
</tr>
<tr>
<td>2015</td>
<td>Take part in the successful liver and kidney transplant in Dr Sardjito Hospital</td>
</tr>
<tr>
<td>2015</td>
<td>Collaborative team on the first surgery of conjoined twins in Dr Sardjito Hospital</td>
</tr>
<tr>
<td>2015</td>
<td>Contribute to the International Cancer Center Tulip (Linac, CAD mammography, US elastography)</td>
</tr>
</tbody>
</table>

Chair’s Message

Radiology Department plays an important role as supportive department for other departments in diagnosis and therapy.

During the last 100 years, radiology continues to develop new techniques and equipments in order to diagnose diseases more accurately and treat malignant cells using radiotherapy. The latest advancement is using the minimally invasive interventional radiology to treat vascular and non-vascular diseases.

Radiology Department has a vision and mission as an educational institution that produces high quality graduates who are competent in Radiology and Informatics. As a dynamic department we will do our best efforts to always be adaptive to the increasing demands and development of latest medical technology.

Dr. dr. Lina Choiridah Sp.Rad(K)
Department of Surgery

Commitment to deliver excellent health care, education, training, and research

Story behind the picture
The Department of Surgery Faculty of Medicine Universitas Gadjah Mada commits to deliver the best practice in the health surgery care. In collaboration with other departments particularly the Department of Pediatric, we recently have successfully performed the first liver transplant at Dr Sardjito hospital.

Profile
Department of Surgery Universitas Gadjah Mada has been established in 1949 in the same year with the establishment of Universitas Gadjah Mada. In 1950, Department of Surgery has initiated teaching activities for two students, carried out by Prof.dr. Moch Salim. Since its establishment, the Department of Surgery has grown rapidly during the past few years. The Department of Surgery has emerged as one of the most prominent surgical training program in Indonesia offering extensive programs of specialization and sub-specialization including in Digestive Surgery, Oncology Surgery, Orthopedic and Traumatology, Pediatric Surgery, Neurosurgery, Urology, Thorax and Vascular Surgery, and Plastic Surgery. Residency training programs are coordinated within several subdivision including General Surgery, Orthopedics, Urology, Neurosurgery,
Chair's Message

As the head of the Department of Surgery Faculty of Medicine Universitas Gadjah Mada, I would like to highlight the following development and recent improvement in patient care, structural organization, education and training, as well as research program.

Supported by 42 full-time surgeons in 8 specialized sub-divisions, the Department of Surgery offers an integrative and innovative surgical care. With this strong human resources, we move toward a multidisciplinary clinical approach focusing on advancing discovery and innovation in surgery to serve our community.

Our mission is to provide the highest level training for surgical residents as well as teaching MD students with the most recent medical knowledge and cutting-edge surgical approaches.

Moving forward from maintaining culture and social values, we are directing our future to be a center for surgical care, training, education as well as scientific research. We strengthen collaboration with other departments for translational research in surgery.

dr. Rosadi Seswandhana, Sp.B, Sp.BP-RE(K)

and Pediatric Surgery. The Department of Surgery continues to excel and make major contributions to the University and Indonesia.

A significant contribution was also made by this Department in the disaster management since 1990. We actively participated during tsunami in Aceh in 2004, Yogyakarta earthquake in 2006, Merapi eruption in 1994, 2006 and 2010, as well as other national disasters. In addition to deliver excellent care to patients, we have also contributed to the rapidly changing healthcare system in Indonesia.

The recent advance in 2015 was the first successful liver transplant performed at Dr. Sardjito Hospital.

We also offer great quality of teaching for both MD and residency. Our residency program is one of the most competitive in Indonesia. Most of these residencies are filled with top rank applicants. The first two years of training in surgery is elaborated as Surgical Foundation with lecture preparation and basic skill development to prepare for national exam for basic surgery. In the national level, our residents have shown their quality. In the national exam for general surgery in 2015, our resident has achieved the best score among other participants. In 2014, we received award as the best oral presentation in Indonesian College of Surgeons meeting in Bali and the following year in 2015, two orthopedics residents have been selected as the best and the third best oral presenters at the national orthopedic meeting in Bandung. The academic year 2015 has been very busy and productive for both undergraduate and postgraduate students. Annual seminar by Sub-division Orthopedics has been very successful with significant participants from general practitioners as well as potential orthopedic resident. Surgery training for MD students as compulsory program has been excelled with help from regional hospitals and elective program in 2015 has been successfully completed by some international students from the Netherlands, Germany, South Africa, and Canada.

The Department of Surgery also endorses multidisciplinary care in collaboration with heart, vascular, digestive health care, transplantation, and oncology that can promote greater collaboration among specialists across disciplines and departments. In addition, robust research program has led to 12 international publications in 2015.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1949</td>
<td>Department of Surgery established</td>
</tr>
<tr>
<td>1950</td>
<td>First surgical care and training for MD students started</td>
</tr>
<tr>
<td>1955</td>
<td>Surgical ward in Mangkubumi hospital established</td>
</tr>
<tr>
<td>1982</td>
<td>The Department of Surgery moved to Sardjito Hospital</td>
</tr>
<tr>
<td>2008</td>
<td>Semilumar valve design for Ventriculo-peritoneal Shunt by dr. P. Sudiharta, Sp.B, Sp.BS has been accepted and produced for patients with hydrocephalus</td>
</tr>
<tr>
<td>2009</td>
<td>Several complicated surgery procedures including Whipple procedure, radical neck dissection, vascular brain surgeries, and open heart surgery successfully performed at the Dr. Sardjito Hospital</td>
</tr>
<tr>
<td>2010</td>
<td>Training program for four subdivisions within Dept of Surgery: orthopaedy, urology, neurosurgery, and pediatric surgery in addition to General Surgery</td>
</tr>
<tr>
<td>2015</td>
<td>First successful liver transplant performed at the Dr. Sardjito Hospital</td>
</tr>
</tbody>
</table>
STUDY PROGRAM

70 YEARS ADVANCING THE NATION’S HEALTH
Undergraduate Programs

Undergraduate Program in Medicine

Faculty of Medicine (FM) is one of the 18 faculties in Universitas Gadjah Mada (UGM). March 5th, 1946 was pronounced as the official date for commemorating the beginning of the FM UGM, prior to establishment of the University. The undergraduate program in Medicine was the first program initiated at the Faculty of Medicine.

Students are admitted through various entrances at National and University level, as well as through an international undergraduate program’s selection. Competition for an admission is immaculate. On average, one applicant has to compete with 300 other applicants for the national and university selection. Annually,
there are about 300 undergraduate students accepted in this program.

Innovation in medical education has long been initiated and widely known in this program. In the academic year 1992/1993, the Faculty started implementing a Problem Based Learning (PBL) system. In 2003, the curriculum was delivered into 21 learning blocks. Ten years later (since 2013), the curriculum has been tailored to the National standard of competence for medical doctor (Standar Kompetensi Dokter Indonesia-SKDI) version 2012 and designed for 3.5 years of bachelor phase and two years of clinical rotation phase.

The spirit to create innovation also applies to the internship program. In October 2009, the faculty organized a two month internship program for the fresh graduates of medical doctor to provide an opportunity to practice as a medical doctor in the clinic setting and in type C or D hospital setting. The graduates received certificates after completing their internship. This model was then adopted by the Ministry of Health (MOH) as it has been considered to successfully give a positive impact for medical education development in Indonesia. Therefore, MOH declared internship program to be compulsory for all fresh graduates of medical doctors in Indonesia.

Curriculum innovation and quality implementation of in the learning process will not be achieved without continuous quality improvement system. Responding to the increased global competitiveness in health professional, the demand to be internationally recognized leads the Faculty to participate in international accreditation programs that will be carried out by external quality assurances agency, such as the Philippine Accrediting Association of School, College and Universities (PAASCU) applying the World Federation for Medical Education (WFME) standard and the Asean University Network Quality Assurance (AUN QA). These will enable the Faculty to gain international reputation together with other world’s top medical schools.

In this spirit of globalization, two international programs are also offered to undergraduate students to improve their global vision, namely international elective exchange and international intercalated master program. These strategies are inline with achieving the vision of the Undergraduate program, i.e. to become an innovative and excellent program in Medicine through applying the global standard to serve the interest of the nation and humanity delivered by competent human resources.

For further information please visit: www.fk.ugm.ac.id
The Undergraduate Program in Nutrition and Health was founded in 2003 as the first undergraduate program in nutrition in Indonesia with a primary focus on human health in three areas of competences: clinical, community nutrition and food service management. The program is designed to equip a Bachelor of Health Nutrition who are scientifically and practically capable in addressing health issues related to nutrition by offering rigorous and thorough nutrition education through classroom theory and hands-on application in the instructional laboratory. This program is also the first one in Indonesia that successfully arrange a one-year elective Dietetic Internship Program for students who already receive their Bachelor in Nutrition. After completion of their internship, students will receive a dietician certificate.

Every year, about 300 students are enrolled. Student entrance to this program is highly competitive and toughest in UGM. In 2015, this program has five lecturers with doctoral degree, 15 lecturers with master degree, 18 guest lecturers, and supported by eleven academic staff.

The Nutrition program is firmly building its track to become an internationally recognized center of education, research and community service in health and nutrition. It places great emphasis on professionalism in preparing human resources that uphold moral values and pledge integrity on national interest through education, research, and community service activities under good and professional governance according to local wisdom. The content and quality of the program has been evaluated and successfully meets the national accreditation standard for higher education.

International collaborations are also given high priorities in this study program. Currently it has various collaborations in research, academic, and capacity building for academic staff and students with University Sains Malaysia, Taipei Medical University, and Flinders University. Under these collaborations several activities have been conducted since 2008 until now, such joint research, joint courses, student exchange and Annual Symposium.

For further information please visit www.gizkesehatan.ugm.ac.id
Undergraduate Program in Nursing Science

The undergraduate program in Nursing Science has maintained a continuous development since its inception in 1999 through curriculum development, continuous quality improvement, application of block system approach, and a vast network of partnership with local, regional and international institutions. In 2015, this program received an A level for its national accreditation in Indonesia.

The program aims to produce a highly qualified professional nurse that is defined as professional, innovative, creative, and humane, has leadership and research capability, and competent in the management of nursing care. Also, it is expected to follow international standards and ethics, and value the local wisdoms. Nursing program is actively involved in international collaborations for academic staff and student exchanges, research collaborations, joint seminars and conferences, and many activities for curriculum development.

For illustration, in 2006 and 2008, the nursing program received two grants from JICA for rehabilitation and community empowerment program in respond to an earthquake in Yogyakarta area during that period. Also, since 2007, this program has been regularly receiving and sending its students for an exchange program to other countries, such as Sweden, Netherland, Thailand, Taiwan, Japan, and so forth.

Since 2013, nursing students has also been participating in the Comprehensive Family and Community Health Care – Interprofessional Education (CFHC-IPE) along with students from the undergraduate program in Medicine and Nutrition and Health. This special program is designed to introduce an integrated care from healthcare professionals to individual, family and community.

For further information please visit www.keperawatan.ugm.ac.id
Graduate Program

The Faculty of Medicine UGM continuously strives to be the leader in providing education for health professionals in the region. To achieve this, the Faculty also prepare future health leaders by offering master and doctoral degree programs. Currently, the number of graduate students at the Faculty of Medicine exceeds the number of undergraduate students.
Master in Public Health

The Postgraduate program in public health was established in 1982. This program aims to equip graduates with leadership capacity, to develop new concepts and theories through research and to implement public health principles in advocacy and health policy at the national and international levels. To cater the large population of Indonesia and wide geographic area of the country, the program offers different learning strategies. There are programs for those who are able to study on a full-time basis and part-time basis, as well as Information Technology (IT)-supported program for those who work in remote areas coupled with limited human resources available to replace the positions of those taking study leaves. The duration of study varies, i.e. 18 months and 24 months of study. After fulfillment of all requirements, students are awarded MPH degree (Master in Public Health).

Amongst the graduate programs, the Master program in Public Health is the largest in terms of programs offered and number of students enrolled. Every year, more than 250 master students are accepted. A total of nine professors, twelve lecturers with doctoral degree, and 32 teaching assistants are available to support the education process in the master program, as well as many external expert as consultants. Currently, the program offers majoring in two clusters, namely Advance Public Health and Health Policy and Management.

Advance Public Health cluster:
1. Field Epidemiology Training Program
2. Health Promotion and Behaviour
3. Maternal and Child Health
4. Nutrition
5. Occupational Health
6. Environmental health
7. Health Policy and Management
8. Hospital management
9. Health financing and insurance
10. Health Information System

In addition, we also offer an International Master Program in International Health and Implementation Research on Tropical Diseases. The International Master of Public Health in Implementation Research on Tropical Diseases is the newest Master scheme in collaboration with the Master on Tropical Diseases study program, supported by the WHO Special Program on Tropical Diseases Research (TDR). This program has started in 2015 with 16 students from 11 countries. A number of scholarship will be offered for students from low-middle income countries in the Asia and Pacific Region until 2019.

Overall, the Master program in Public Health has received national and international recognition. The master program in Public Health has received an ‘A’ accreditation from the National Accreditation Agency for Higher Education (BAN-PT) and an international accreditation from the International Medical Informatics Association (IMIA) in 2014 for the majoring in Health Informatics and Management. Several courses have also been accredited by TropEd, a network for education in international health.

For further information, please visit: www.ph.fk.ugm.ac.id
Master in Tropical Medicine

Master program in tropical medicine was established in 1994 in response to challenges of tropical diseases as well as to conduct basic and applied studies on endemic diseases in local settings and worldwide. Previously this master program stands as a concentration under the Master Program in Public Health before it becomes an independent Master program in 1997.

Currently, the program offers three concentrations: Infectious Disease Control, Immunology and Molecular Biology of Tropical Diseases, and Clinical Entomology. Each year about 20 students are admitted. Partnering with the master of public health program, a new public health master scheme in Implementation Research on Tropical Diseases has been offered since 2015. The master program involves 24 Professors, 22 PhDs, 13 Clinical Specialists, and 11 Masters.

Master in Medical and Health Profession Education

The Faculty of Medicine Universitas Gadjah Mada started a Master Program in Medical and Health Profession Education in 2006 to increase the quality of medical and health education by increasing the medical and health educators competencies and professionalism, as well as the number of researcher and innovator in medical education.

This master program has access to experienced teachers and tutors, which consist of five Professors, ten PhDs, and 25 Masters, from various field of study, i.e. medicine, nursing, pharmacy, dentistry, public health, and education. Our teachers also hold senior roles, such as senior consultant and medical education leaders in our teaching hospitals. This is a valuable opportunity for students to learn from physicians who are leading by example and bringing the taught components of the programme to life. Up to 2015 a total of 149 students have been accepted in the program.

The master program has been accredited by the National Accreditation Agency for Higher Education (BAN-PT). Voice of the program is also being heard on an international level through Titi Savitri Prihatiningsih, MD, MA, M.Med.Ed, Ph.D, whom has been appointed to be one of the Executive Committee at South East Regional Association of Medical Education (SEARAME) for 2007-2016. SEARAME is a WHO body which focuses on medical education. Collaborations with other institutions at
Master in Clinical Medicine

Established in 1997, the program offers master degree in various major of interests, including clinical epidemiology, maternal and perinatal medicine, and family medicine. In addition, since 2004, the program has also offered a unique combined master-specialty program. Under this scheme, students receive both a master degree and a medical specialist title after completing the program. The curriculum consists of general basic lectures, which are mandatory for all students, and major-specific lectures, which are designed specifically for each major and only taken by the students in each major. The students must conduct research and write a thesis to complete the program. At the end of the course, the students are awarded a Master of Science (M.Sc) degree. The program has been accredited “A” by LAM-PTKes, a national accreditation body for health profession higher education institutions.

In 2015, a total of 173 students were enrolled in the program. The students mostly consist of those with medical doctor’s background, in addition to dentistry, midwifery and nursery backgrounds.

During the last three years, approximately 155 research activities have been supported by various grants and 250 scientific publications in peer-reviewed journals, including 106 international and 144 national publications. The international publications tend to increase in recent years. There were 8 international research-scientific presentation awards and 13 national awards received by the students within the last three years. There were also many achievements at both national and international level received by the lecturers, including some patents.

For further information please visit medicaleducation.fk.ugm.ac.id

Master in Basic Medical and Biomedical Science

Started in 1980, Master Program in Basic Medical and Biomedical Science is determined to be a master program applying an international standard. Several majorings are offered: Anatomy, Medical Anthropology, Biochemistry, Biomedical Science, Pharmacology, Histology and Cell Biology, Physiology, Parasitology, and Molecular Medicine. A total of 43 students were admitted in 2015, taught by eight Professors, 43 Doctors, two Masters and three academic staff. Upon completion, the graduates will be awarded Master of Science (MSc).

The program aims to produce graduates who are: (1) competent in applying basic medical and biomedical science in order to help solving individual or public...
health problems using scientific principles; (2) competent in academic skills and thus able to develop knowledge and eager to pursue higher academic degree at the doctoral level; and (3) recognized at national and international level.

For further information please visit: www.ikd.ugm.ac.id

Master in Nursing

Started in 2011, this master program aims at producing ethical, humane and high quality graduates who master scientific theoretical approach, have curiosity, spirit to learn and managerial ability to contribute to development of nursing science, research and service independently or by collaborating with other professions as well as graduates who are able to demonstrate the uniqueness of nursing profession. Such objectives are achieved through conducive learning method and atmosphere, and supported by collaboration with domestic and foreign institutions.

The master program has the vision to be a leading education center in the field of master in nursing through continuous innovation in creating life-long learning environment in order to develop science and technology, leadership and excellent nursing service that contributes to comprehensive problem solving at national, regional and international level in the next 10 year period. The mission is to produce graduates of master in nursing through the implementation of a quality higher education in nursing, research and community service and always improve towards achieving international standard with democratic, national and international perspectives. Currently, the master program offers two majorings: pediatric and maternity nursing.
Clinical Specialty Training Program

Clinical specialty training or residency program is composed of structured training and hospital services in a subordinate position under full professional responsibility. This program aims to produce specialists who have knowledge, skills and professional attitude to enable them to solve medical-health problems using scientific approach, and to apply their knowledge in delivering care to the public using the highest standard of care possible in their field of specialization. An entry to the Clinical Specialty Training Program is very competitive. Every year, more than 600 medical doctors applied and only about 250 medical doctors are accepted. Residents spend most of their training program at Dr Sardjito Hospital, and also at two other main affiliated hospitals, i.e. Dr Soeradji Tirtonegoro Hospital and Banyumas District Hospital. Residents also have the opportunities to gain clinical experiences from many public and private hospitals which collaborate with the Faculty of Medicine.

The Faculty of Medicine UGM is currently offering 20 medical specialties training for medical doctor to become a specialist, namely: Anesthesiology, Pediatric Surgery, Orthopedic Surgery, Medical Forensic, Surgery, Psychiatry, Pediatrics, Dermatology and Venereology, Internal Medicine, Ophthalmology, Neurology, Obstetrics and Gynaecology, Pathological Anatomy, Clinical Pathology, Radiology, Otorhinolaryngology, Clinical Microbiology, Urology, Cardiovascular and Neuro-surgery. The education programs differ in length and structure according to specialities. Funding for this program comes from various sources, i.e. individual, local government, Ministry of Health and various scholarship schemes. Soon, education program for clinical consultant will also be offered under University arrangement.

The number of strategic collaborations for academic and world-class research activities, developed by the Clinical Specialty Training Program have been increasing in recent years, both with local and international institutions, and in synergy with affiliated hospitals. The Clinical Specialty Training Program also have a major contribution in community services. This efforts are social mandates as our role to improve nation's welfare and continuing community service.

For further information please visit www.ppds.fk.ugm.ac.id
Doctoral Program in Medicine and Health Science

Doctoral Program is the highest level of a formal education in higher education institution and it has started since 2007. Applying a research-based doctoral program equivalent to a PhD degree, the program is well-structured and monitored to enable the participants to complete the degree within five years on average. The program is nurtured by distinguished Professors and lecturers with national and international reputations in teaching and research. It is also supported by competent administrative staff and convenient educational facilities.

The goal of the doctoral program is to prepare the next generation of leading health researchers, high quality university lecturers, and policy makers. The cornerstone of the doctoral experience at the Faculty of Medicine is the research apprenticeship that all students undertake, typically under the guidance of their academic advisor but often with other expert as well.

The doctoral program offers five programs: Doctoral program in Basic Medical Science, Public Health, Clinical Medicine, Medical Education and Nursing. To further stimulate research interests, the doctoral program develops a total of 39 research clusters, which are highly focused areas of research and reflecting specific specialties. A research cluster is led by recognized scientist leaders in the field and can be affiliated with various departments, study programs and research centers under the Faculty. PhD candidates are able to select a research cluster/s according to their research interests. The academic staff of the Doctoral program consists of 29 Professors and 53 Doctoral.

Doctoral program participants are required to have master qualifications or medical specialist qualifications. In 2015, more than 200 doctoral students are actively engaged in the program and a total of 219 Doctoral degrees has been awarded. A pre-doctoral program is provided to introduce the academic system in the doctoral program to prospective students, to introduce a range of research clusters and to assist prospective students in developing a research proposal to be submitted in the application.

For further information please visit www.s3fk.ugm.ac.id
RESEARCH CENTER

70 YEARS ADVANCING THE NATION’S HEALTH
Clinical Epidemiology and Biostatistics Unit

The Indonesian Clinical Epidemiology-Evidence-Based Medicine Network Meeting in Yogyakarta, December 2014

Story behind the picture

This picture was taken during the International meeting on clinical epidemiology where the Clinical Epidemiology and Biostatistics Unit (CEBU), Faculty of Medicine Universitas Gadjah Mada was appointed as chair of the Indonesian Clinical Epidemiology and Evidence Based Medicine (ICE EBM) network for the period of 2015-2017.

Profile

CEBU was established in year 1986 under the leadership of late Prof. dr. Tony Sadjimin SpA(K), MSc, MPH, PhD. The center contributes to improve the quality of health care, medical education and research, and public health policy in developing countries. The commitment of Dr Sardjito Teaching hospital toward this center was shown as this center became a joint center between the Faculty of Medicine and Dr. Sardjito teaching hospital. Both institutions have been providing support for CEBU to conduct its educational, training and research activities.

In 1980, CEBU became a member of the International Clinical Epidemiology Network (INCLEN) and at that time was the only Indonesian member of INCLEN. Its reputation in education and training was confirmed in 1992 when CEBU was appointed to be the only
Chair’s Message

The center’s mission is to perform and promote research using clinical epidemiological methods to answer questions about the causes of, diagnosis of, therapy for, and prognosis of disease and disability. The center also provide training and short courses to the students at various levels and in various disciplines on statistical, epidemiological, and clinical epidemiological methods used to address clinical research questions. In addition, this center perform education and clinical research and foster scientific collaborations both national and international research institutes and universities. We would like to encourage all staff to join us in strengthening our capacity in clinical epidemiology and EBM for providing the best care for our patients.

dr. R. Detty Siti Nurdiati Z. MPH, PhD.,SpOG(K)

Clinical Epidemiology Research and Training Center (CERTC) in Indonesia for South-east Asian region. In the same year, CEBU started its master degree in clinical epidemiology participated by students from Indonesia, Philippines, Thailand, China, Vietnam and Iraq. For practicing clinicians, clinical epidemiology and EBM goes beyond knowledge. Application in daily practices should be enhanced in using the best available evidence for making decisions. Therefore, clinical epidemiology and EBM are also integrated in the curriculum since the early years of medical education. As for research, the landmark study was Vitamin A deficiency in children (MORVITA). Since then, many research activities have been carried out prioritizing in improving quality of care in the hospitals. Further activities in research and training has led to CEBU as a trainer on Cochrane Systematic review and then appointment as the Indonesian Cochrane Node. Other training activities delivered are EBM, Evidence-Based Clinical Practice Guideline, Patient safety and Clinical Risk Management, Data analysis for improving healthcare services, and Infection Control and Hospital Epidemiology. Guided by the Board of Fellow, the organization of CEBU will be continuously strengthened in the future to support the development of disease registry and clinical trial unit at Dr Sardjito Teaching hospital.

CEBU has a great commitment and concern in good quality of health care with a multidisciplinary approach for solving priority health problems both at the hospital and community settings. The main activities of CEBU are: (1) facilitate teaching and learning in clinical epidemiology (master science program in clinical epidemiology and in the undergraduate program), (2) research activities in hospital and community setting, and (3) consultations in applied clinical and health research.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
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<tbody>
<tr>
<td>1980</td>
<td>Member of the International Clinical Epidemiology Network (INCLEN)</td>
</tr>
<tr>
<td>1986</td>
<td>CEBU Faculty of Medicine Universitas Gadjah Mada first established under the leadership of Prof. dr Tony Sadjimin SpA(K), MSc, MPH, PhD.</td>
</tr>
<tr>
<td>1992</td>
<td>Appointed as the Clinical Epidemiology Research and Training Center (CERTC) in Indonesia for South-east Asian region.</td>
</tr>
<tr>
<td>1992</td>
<td>Master Degree in Clinical Epidemiology started</td>
</tr>
<tr>
<td>2014</td>
<td>National Training on Research Methodology, Evidence Based Practice Guideline started</td>
</tr>
<tr>
<td>2014</td>
<td>National Training on Cochrane Systematic Review started. Appointed as the Indonesian Cochrane Node, as part of the Australasian Cochrane Center and Chair of the Indonesian Clinical Epidemiology and Evidence-based Medicine Network for 2015-2017.</td>
</tr>
<tr>
<td>2015</td>
<td>National Training on Patient Safety, Infection Control started</td>
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</tbody>
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Center for Reproductive Health

For Better Maternal and Child Health

Story behind the picture

Center for Reproductive Health (CRH), in collaboration with the Bill and Melinda Gates Institute for Population and Reproductive Health, John Hopkins University and the National Family Planning Coordinating Board, hosted the Monitoring Performance and Accountability 2020 (PMA2020). The general purpose of this survey is to determine indicators and achievement of Family Planning programs such as socio-demographics characteristics of respondents, including residency, dwelling, wealth quintile, age, parity and education in Indonesia periodically. PMA2020 will be implemented until 2018 and consists of 6 Rounds.

Profile

CRH is a research center engaged in research, training, consultancy, monitoring and evaluation of programs. Activities intended to improve the health, growth and development of the human life cycle in the areas of sexual and reproductive health, maternal and child health, as well as changes in the population, including the mother and baby, family, youth, women, the elderly, and populations with special health needs.

CRH has built a Community Health and Nutrition Research Laboratory (CHN-RL) since 1994 in Purworejo district and has facilitated numerous studies by faculty and students, test new interventions as well as providing training for local government staff. Since 1999 it was accepted as member of INDEPTH-Network (a network of scientists in the field of population and demographics worldwide) with the name of Health Demographic and Surveillance System (HDSS) Purworejo.

The center was chosen as a Center of Excellence in International Comprehensive Right Based Family Planning Training. This is part of the cooperation between the National Family Planning Coordinating Board and John Hopkins University.
Board and CRH, supported by UNFPA which is a manifestation of the commitment of the Government of Indonesia on South-to-South cooperation as a member of the G20, as well as an investment in human resources in the field of reproductive health.

At this time, the Center organizes some activities;

1) Training in a comprehensive Family Planning, which is the implementation of the activity as the Center of Excellence.

2) Clinical Trial Comparative Effectiveness, Safety, and Acceptance Contraceptive Containing Lynestrenol (Nexton® and Exluton®) for Women Breast feeding. In cooperation with PT Hansen Laboratories, the BKKBN as the responsible and supervised by BPOM, aimed to determine the efficacy, safety, and acceptability of contraceptives containing Lynestrenol Nexton® is compared with the innovator Exluton® for breastfeeding women. Expected to be one of the alternative contraceptive options for breastfeeding mothers in Indonesia.

3) The study entitled “Surveillance of the burden of HIV infection and HPV type-specific distribution in Central Java, Indonesia: implications for a prevention strategy “in the Small Grant scheme with a duration of one year was conducted in Purworejo (surveillance region). These activities collaborate with the Nossal Institute University of Melbourne.

4) The Performance Monitoring and Accountability 2020 (PMA 2020). Family Planning surveillance data collection that is supported by the Gates Institute at Johns Hopkins University’s Bloomberg School of Public Health. Results are expected to support the nationally representative survey, low cost and fast, using the technology of communication tools to collect, analyze, and disseminate information on family planning and other health-related information at the household level and health facilities. The survey was conducted in eleven countries, including Indonesia.

5) Quantitative Assessment of Family Planning Supply Chain (Logistics). This activity is a survey of contraceptives supply in family planning service facilities in the project area of My Choice in four provinces (North Sumatra, Jakarta, Central Java, and South Sulawesi). Assessment was carried out in cooperation with the JSI Research & Training Institute, Inc. and in coordination with the National Family Planning Coordinating Board. The collection of data in the field were using tablet technology (android) and data were sent to the server via the Internet soon after collected.

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**Milestones**

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994</td>
<td>Started baseline data collection for longitudinal surveillance called CHN-RL (Community Health and Nutrition Research Laboratories). Surveillance is located in Purworejo district Central Java</td>
</tr>
<tr>
<td>1995</td>
<td>Applied researches joined through collaboration with funding from; JHU, SIDA-SAREC, UNICEF, WFP, UNFPA, INCLEN.</td>
</tr>
<tr>
<td>1999</td>
<td>Become member of INDEPTH-Network as HDSS-Purworejo</td>
</tr>
<tr>
<td>2008</td>
<td>Changed the name into: Center for Reproductive Health.</td>
</tr>
<tr>
<td>2014</td>
<td>Center for Reproductive Health as Center of Excellence to support training activities in Family Planning Services.</td>
</tr>
</tbody>
</table>
Center for Tropical Medicine

A Leading Research and Training Institute in Tropical Medicine

Eliminate Dengue Project (EDP)-Yogya embraces local wisdom by respecting individual and communal decision. Supported by Tahija Foundation, research project upholds the principles of autonomy and freedom of choice, thus community participate voluntarily.

Story behind the picture

The research on Wolbachia mosquito in Bantul has not only obtained supports from district government but also from the Vice governor of Yogyakarta Special Province, Sri Paduka Paku Alam IX. On Dec 8 2014, Sri Paduka Paku Alam IX symbolically placed the bucket containing eggs of Wolbachia-Aedes aegypti in one of residential houses at RT 9 Jomblangan, Banguntapan, Bantul. This placement marked the launch of the Eliminate Dengue Project (EDP)-Yogya in controlling Dengue by releasing Wolbachia-Aedes aegypti in Jomblangan and Singosaren 3, Banguntapan, Bantul.

Profile

The Center for Tropical Medicine, Faculty of Medicine Universitas Gadjah Mada was established in 1996 through the University Research Graduate Education (URGE) project grant from the Directorate General of Higher Education, Ministry of Education, Indonesia. The vision of the Center is to be an internationally recognized center for research and training in tropical diseases. In line with this vision, the missions are (1) to develop new knowledge, tools, intervention, strategies for tropical disease control and (2) to strengthen the capacity of human resources in disease endemic areas.
With almost 20 years of experience in research, the Center maintains an extensive portfolio of collaboration with reputable national and international partners which ensure relevance and quality of research and training. To improve our capacity to manage research project we recently developed a new organization structure which involves establishment of five disease-based research divisions, namely TB, HIV/AIDS, Malaria, Dengue and Neglected Tropical Diseases (NTDs).

Currently the Center manages twelve research projects, of which ten are multi years and international projects funded such as by WHO, European Commission, Bill and Melinda Gate Foundation, KNCV, Belgium-DGDC, and USAID. The only multi year and national project is EDP-Yogya, funded by Tahija Foundation in Jakarta. Our research project portfolio varies from biomedical (e.g. Human immune response to Tuberculosis infection), clinical (e.g. International Research Consortium on Dengue Risk Assessment, Management and Surveillance-IDAMS study and Neglected Infectious Disease-NIDIAG Project), to implementation research (e.g. EDP-Yogya, Clinton Health Access Initiative Project, and HIV Awal Testing and Treatment Indonesia-HATI Project).

As a training center, the Center for Tropical Medicine has been internationally recognised. We were appointed as TBCTA Regional Training Center for Tuberculosis Control in Asia since 2008. The Center has organised various training courses related to health research and disease control program both nationally and internationally, such as Budget planning and project management, Hospital DOTS Linkage, TB Infection Control, Public Private Mix for TB Control, Effective Project Planning Evaluation and Operational Research. The Center was also appointed as the Regional Training Center (RTC) for health research for the Southeast Asian region by WHO/TDR in 2010. Its mandates is to improve research capacity in South East Asia. More than 25 trainings on Good Clinical Practice (GCP) and Good Clinical Laboratory Practice (GCLP) both in house and national training, have been conducted successfully. In 2015, the Center has conducted four regional courses, i.e. GCP, GCLP, Good Health Research Practice (GHRP) and Implementation Research (IR). Almost 600 participants have been trained by the Center from 2008 to 2015.

Our center also provides consultancy services, particularly to the Ministry of Health and different stakeholders in the development of proposals and policies such as developing Global Fund Round 9 proposal, GF Concept Notes, National Strategic Plan for TB and National Strategic Plan for Sexual Transmitted Infections.

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>Officially established</td>
</tr>
<tr>
<td>2008</td>
<td>Appointed as TBCTA Regional Training Center (RTC) for TB Control</td>
</tr>
<tr>
<td>2010</td>
<td>Appointed as RTC for health research supported by WHO/TDR</td>
</tr>
<tr>
<td>2013</td>
<td>The Postgraduate Program of Tropical Medicine was managed separately from the Center</td>
</tr>
<tr>
<td>2015</td>
<td>New organization structure: formation of five disease based divisions</td>
</tr>
</tbody>
</table>
Center for Bioethics and Medical Humanities

Pride in Modesty

Story behind the picture

This humble office building has been the main site for bioethics activities, including development of knowledge, research and production of innovative ideas. Painted with team efforts and collaborative work, all bound with sense of togetherness, this old building has been a testament of how physical limitation should not be a barrier for productivity and excellence.

Profile

The Center for Bioethics and Medical Humanities (CBMH) history was established in 1997 as Bioethics and Medical Humanities Team, led by Prof. dr. Yati Soenarto, SpA(K), PhD. The team aimed to improve moral, ethical, and behavioral aspects among the medical students. The initial strategy was involving interdisciplinary experts, i.e. medicine, philosophy, psychology, social-humanities, civic, law, religion, which soon transformed into what the center is currently promoting, a transdisciplinary approach.

In its further development, the center has evolved into an innovative and productive center with the main vision “to improve bioethics and medical humanities education, research, and service in order to create highly qualified moral and humane practitioners”. The center aspires to achieve the vision through missions in the following area:

- Education (integrating bioethics and medical humanities into curriculum)
- Research (conducting local, regional, and international research on bioethics and medical humanities)
- Service (training and educating professionals and community in bioethics and medical humanities)

The contributions made in Bioethics development were not limited to only local, but have spanned up to global levels. CBMH has been acknowledged nationally as one of the pioneers, trendsetting institution, and barometer for bioethics development in Indonesia. The center has been given the honor to serve as permanent secretariate for the national network on Bioethics and Medical Humanities (JBHKI). On regular basis, Certified
bioethics training for health professionals have been conducted and joined by participants from around the country. With a distinct approach to Bioethics, the aspects of HELP have been promoted as a strategy unique to CBMH. It emphasizes on cultivating Humanities as the basic starting point for Ethical skills, whilst balancing with proper understanding of Legal aspects, and Professionalism in the framework.

Aspiring for global participation, the center has made significant numbers of contributions on bioethics development, through various approaches in the form of hosting international conferences, trainings, collaborative projects and research. These efforts encourage and empower Asia-Pacific Initiatives in enriching bioethics development in this global society. In line with that spirit, the center was appointed as the leading coordinator for the International Consortium on Bioethics and Humanities, hosting the Asia-Pacific (Trans-nations) bioethics collaboration (initiated by Indonesia, Taiwan, Malaysia, and Australia).

Those achievements mentioned above were not the main goals nor the finish line. In fact those propel further our motivation and spirits to keep going, as the journey is far from ending. The new chapter has just begun focusing on the following main concerns. First, bioethics capacity building for health professionals, through formal education (graduates and postgraduates) and continuing professional development and training (certified courses, etc). Secondly, to infuse and cultivate ethical values into every science and technology development, including but not limited to health area. Last but most importantly is contributing for nations’s welfare through building and investing transcultural and transdisciplinary attitudes, so that every stakeholder/policymakers in this country would have the skills to do science diplomacy, for the sake of defending nation’s interest, assets and resources.

We still hold many plans for the future. The most strategic is the establishment of Department of Bioethics and Medical Humanities at the Faculty of Medicine, the International Bioethics Postgraduate Programs in UGM and hosting key meetings, i.e. the the JBHKI 8th National meeting and the 17th Asian Bioethics Conference in 2016.

### Chair’s message

The advancement of science and technology today has gone at very rapid speed, and it is not for a bad reason. By nature, human beings are curious creature with aspiration for change and improvement. However, amidst the hectic scientific activities and dynamics, we are often deafen to the little voices of conscience, and blinded to the consequences for humanity.

It is of our main concern to amplify those little voices and restore sights of humanity. Through the lense of bioethics, we hope to endorse the transdisciplinary attitude to pay our due respect in this transcultural environment in which we are currently living. Together, we should make the efforts to promote this transdisciplinary attitude to provide appropriate support in science and knowledge development in Indonesia.

Beyond that of trendsetting ideology, we must persistently produce contribution and investment of ideas which aspire for preservation and improvement of the nation’s welfare and also the global society in wider sense.

**Prof. Dr. dr. Soenarto Sastrowijoto, SpTHT(K).**

### Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>Bioethics and Medical Humanities Team established (embryo of the center)</td>
</tr>
<tr>
<td>2000</td>
<td>Bioethics 2000: An International Exchange (Harvard Medical School – Gadjah Mada Medical School) held</td>
</tr>
<tr>
<td>2003</td>
<td>Center for Bioethics and Medical Humanities established</td>
</tr>
<tr>
<td>2007</td>
<td>International Exchange on Teaching Bioethics for Medical Students Seminar and Workshop held</td>
</tr>
<tr>
<td>2009</td>
<td>Teaching Bioethics and Medical Humanities in Clinical Setting seminar and workshop held (Joint collaboration with Amsterdam Medical Center, Groningen Medical Center, Taipei Medical University, University of Sains Malaysia, University of Washington Seattle)</td>
</tr>
<tr>
<td>2010</td>
<td>Certified Courses (Grad. Certificate &amp; Grad. Diploma) on Bioethics (HELP) for Health Professionals started</td>
</tr>
<tr>
<td>2011</td>
<td>• Taiwan Collaborative Visit and Meetings held (UGM, TMU, NTU, NCU, CMU, NCKU) &lt;br&gt;• Bioethics and Medical Humanities Education Network developed (UGM, TMU, AMC, USM, UW) &lt;br&gt;• Malaysia Meeting: Seminar on Ethics Teaching Common Approaches for Regional Teaching held (USM, UGM) &lt;br&gt;• Bangkok Meeting: Asia-Pacific Bioethics held (UNESCO)</td>
</tr>
<tr>
<td>2014</td>
<td>International Consortium on Bioethics and Humanities established and led by CBMH</td>
</tr>
<tr>
<td>2015</td>
<td>Division of Bioethics established under the Department of Community and Family Medicine</td>
</tr>
</tbody>
</table>
Center for Health Policy and Management

Catalysing Evidence-based Health Policy and Management

Story behind the picture

Catalysing evidence-based health policy and management requires intense interactions between researchers and policy actors. However, these much needed interactions are often constrained by limited time, fund and other resources. Center for Health Policy and Management is dedicated to providing practical innovative solutions for such challenges by developing blended method, combining face-to-face with virtual interactions. This enables busy health policy and management experts to take part in policy engagement without having to spend much time travelling. Thus, utilizing appropriate technology, this method promotes effective knowledge translation at an affordable cost.

Profile

The Center for Health Policy and Management (CHPM) is committed to developing practical evidence-based policy and management solutions to our nation’s most pressing health system challenges. CHPM was initially established as the Center for Health Service Management on 5 February 1998. The Center at the time builds on the growing experience and expertise in health services research and training at the Faculty of Medicine UGM. In March 2013, the name changed to the Center for Health Policy and Management to better reflect the growing activities on health policy. CHPM strives to become an internationally recognized center of excellence in health policy and management.

To achieve its vision, CHPM conduct research that lays the foundation for better health policy and management. In addition to answering important research questions, CHPM analyse critical health system problems to identify practical strategies for improving health and health care. We also promote interaction among leading researchers, clinicians, healthcare executives, policy makers and members of the public by hosting seminars, lectures and roundtables. These forums provide vital opportunities for the health policy community in Indonesia to share ideas and expertise. Complementing the centers’ academic expertise is the in-depth knowledge of affiliates from health service organizations and other academic institutions. Affiliated university researchers and outside experts from Indonesia and abroad collaborate with CHPM researchers on projects, providing valuable perspective on current healthcare issues.
CHPM currently manages four divisions: (1) Public health policy and program management; (2) Hospital management; (3) Quality management; and (4) Disaster management. In 2016, CHPM is preparing to establish a new division on health information system. The director, secretary, heads of division and operational manager meet regularly to coordinate projects and other activities. The quality management system of CHPM is certified for ISO 9001: 2008. A board consisting of the Vice Dean, heads of associated department and experts provide strategic advice to CHPM.

CHPM works closely with the National Planning Bureau, Ministry of Health, Ministry of Home Affairs, Provincial Governments, District Governments as well as public and private hospitals. CHPM also work with a wide range of associations related to health policy and management such as district hospital association, the Indonesian hospital association, private hospital association, provincial/district health office association. CHPM also has many years of experiences working with international organizations such as the World Bank, World Health Organization (WHO), European Union (EU), Asian development Bank (ADB), United States Agency for International Development (USAID), GTZ/GIZ, AusAID/DFAT. Currently CHPM leads the Indonesian Health Policy Network, which brings together prominent universities across Indonesia to collaborate on health policy issues.

CHPM also actively promote knowledge dissemination by publishing policy briefs, the Indonesian Health Service Management journal, the Indonesian Health Policy Journal and managing numerous websites dedicated to specific health policy and management issues.

Chair’s message

“CHPM has developed over the past 18 years into one of the nation’s leading center of excellence in health policy and management. CHPM has made huge efforts to strengthen health policy and management capacity across the country. More than any other organization in the country, we have made it possible for state-of-the-art knowledge and information on health policy and management to be publicly accessible. Our research and analysis informed and educated policy actors spanning from the capital to the remote districts of eastern Indonesia. And we have partnered with international agencies such as CIDA and AusAID/DFAT to provide collaborative platforms for health policy researchers. But our work is not done. Indonesia’s health system is still facing many challenges such as regional inequities. And we intend to continue our mission to address those challenges through strengthening health system in Indonesia and in the region. Please join us in our endeavour.”

dr. Yodi Mahendradhata, MSc, PhD.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>Establishment of the Center for Health Service Management under the leadership of Prof. Dr. Laksono Trisnantoro MSc, PhD</td>
</tr>
<tr>
<td>1998</td>
<td>Strategic management division established (now becomes the hospital management division)</td>
</tr>
<tr>
<td>1999</td>
<td>Public health division established</td>
</tr>
<tr>
<td>2000</td>
<td>Quality management division established</td>
</tr>
<tr>
<td>2007</td>
<td>Disaster management division established to respond to increasing need for preparedness, emergency response and recovery</td>
</tr>
<tr>
<td>2010</td>
<td>Leadership transition from Prof. Dr. Laksono Trisnantoro MSc, PhD to Dr. Yodi Mahendradhata MSc, PhD</td>
</tr>
<tr>
<td>2012</td>
<td>Web-based Knowledge dissemination program launched</td>
</tr>
<tr>
<td>2013</td>
<td>Changing the name to the Center for Health Policy and Management.</td>
</tr>
</tbody>
</table>
Center for Health Behaviour and Promotion
Committed to Quality Health Behavior and Promotion Program

Story behind the picture
The picture was taken in a workshop entitled “From Data to Action for Tobacco Control” conducted in Indonesia, April 2015. International and national speakers from the US CDC, Republic of Indonesia Ministry of Health, US National Cancer Institute, Research Triangle International in the US, Universitas Gadjah Mada, MTCC UMY, and UI, this workshop was the first Data to Action about tobacco control held in Indonesia with the support from the Bill and Melinda Gates Foundation.

Organized by the Center for Health Behaviour and Promotion (CHPB), the participants were students from UGM, UI, and staff of Ministry of Health. They were empowered to use data and research to support local tobacco control policy interventions and national public health priorities. When tobacco becomes a major hidden threat for this country, this workshop was expected as a first step in strengthening the academics and practitioners to analyze the resources, data, policies, and other materials, as a real implementation step of tobacco control and health improvement systems for Non-Communicable Disease prevention in Indonesia.

Profile
“We promote, encourage and support healthy and safe communities. We work to build capacity for individual, community and system change to improve health status and prevent disease by conducting qualified health behavior and health promotion research into action”

Since 2000, CHBP has been conducting research to facilitate preventive and health promotion action research in Faculty of Medicine, Universitas Gadjah Mada. CHBP researchers pursue independent studies in the area of public health, with particular focus on health behavior and promotion, tobacco control, non-communicable diseases. In addition, the Center also runs training programs for scholars and practitioners who are interested in health behavior and promotion.

CHBP is trusted by various stakeholders to conduct collaborative efforts in research, training, and community empowerment program in health.
Chair’s Message

CHBP was first established in order to facilitate lecturers and researchers in Public Health Department for conducting and developing research in health behavior and promotion. Nowadays, the Center underscores variety of programs and priority settings of research, training, project, and consultative programs. Our members are strongly committed to forging links between theory and practice, research and public service of the highest calibre with an emphasis on behavior modification through research, community development, services, and education.

The future is challenging

The dynamic changes of lifestyle and environment, together with deeper understanding about health today create a more demanding role of health promotion. CHBP will continue conducting research to address the phenomenon in the community and find out what is new in the world of preventive medicine in interdisciplinary approach, such as social determinant and others. In the future, engagement and collaboration with international and national networks requires strengthening of human resources in the center.

Dra. Yayi Suryo Prabandari, MSi, PhD

promotion and disease prevention. Today, the Center is led by Dra. Yayi Suryo Prabandari, MSi, PhD with three main divisions: research and development division (coordinated by dr. Fatwa Sari Tetra Dewi, MPH, PhD); training, workshop, and program division (coordinated by Supriyati, SSos, MKes.); and networking division (coordinated by Dra. Retna Siwi Padmawati, MA). For more information, we can be contacted at: chbp@ugm.ac.id.

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>CHBP established in April 2000, led by DR. Dra. Ira Paramastri, MSi</td>
</tr>
<tr>
<td>2001</td>
<td>A World Bank funded project entitled “New Ways of Helping Poor Smokers to Quit in Central Java, Indonesia” and a study funded by Indonesian Labour Organization and Indonesia Business Links entitled “Rapid Assessment for the Improvement of Occupational Health and Safety (K3) in Leather Industry in Bantul, Yogyakarta” were initiated.</td>
</tr>
<tr>
<td>2002</td>
<td>Fogarty Grant for Quit Tobacco Indonesia Project Phase 1 awarded</td>
</tr>
<tr>
<td>2003</td>
<td>Smoking cessation clinic at lung clinic (BP4) and Primary Health Center (PHC) started as part of QTI</td>
</tr>
<tr>
<td>2004</td>
<td>PRORIVA (Yogyakarta Provincial Health Project) - Baseline Survey of Cardiovascular Disease started</td>
</tr>
<tr>
<td>2005</td>
<td>Dra. Yayi Suryo Prabandari, MSi, PhD continued the leadership of CHBP. WHO grants for post-disaster health promotion received. Project entitled “Understanding and Measuring Determinants of Smoking Initiation among Youth Female in Yogyakarta Municipality, Indonesia” received from The Canadian Tobacco Control Research Initiative, The American Cancer Society, Cancer Research-UK and Research for International tobacco Control (RITC).</td>
</tr>
<tr>
<td>2006</td>
<td>Smoke Free Area in Faculty of Medicine UGM initiated. Grant obtained from The Canadian Tobacco Control Research Initiative, The American Cancer Society, Cancer Research-UK and Research for International tobacco Control (RITC). for preventing children from Environmental Tobacco Smoke</td>
</tr>
<tr>
<td>2008</td>
<td>Smoke Free House and Smoke Free Kampong in Yogyakarta City initiated as part of QTI.</td>
</tr>
<tr>
<td>2009</td>
<td>Health promotion program for Malaria prevention in Papua started, in collaboration with PT Freeport Indonesia</td>
</tr>
<tr>
<td>2013</td>
<td>A new project on entitled “Stroke Prevention Research Project” initiated with RTI International.</td>
</tr>
<tr>
<td>2014</td>
<td>A study on “Investigation of Customer perception for Tobacco Protecting Ethics” started in collaboration with University of Edinburgh, Napier</td>
</tr>
<tr>
<td>2015</td>
<td>Indonesia Workshop of Data to Action for Tobacco Control funded by Bloomberg Initiative Program and the Bill and Melinda Gates Foundation</td>
</tr>
</tbody>
</table>
Center for Human Health and Nutrition (CH2N)

Center for Human Health and Nutrition, to contribute to better nutrition and healthy life in the community

Evaluation meeting in Asmat district, Papua Province with enumerators, after completion of data collection in a research project titled "Identification and Evaluation of Malnutrition Eradication in Asmat, Papua Province".

**Story behind the picture**

CH2N was conducted a study in Asmat district, Papua Province. The study was funded by local government of Asmat. After several months of preparation, research team from CH2N travelled to Asmat to conduct data collection.

Asmat is a district in the south of Papua. The area are covered by swamp, and therefore, the Asmat residents build path from wood above it. Water is very difficult and people rely on rain water for drink and bath. The swamp was very dirty since they had no specific means to dispose human waste, and in addition, a lot of plastic waste are observed floating on it.
Profile

Established in July 2000, CH2N aims to facilitate innovations in health care and education, and community nutrition. Currently, the research center is focused on how to solve nutrition problem in the society, including under- and overnutrition. In order to achieve this goal, CH2N has been involved in several studies to identify the cause of malnutrition in Nias, North Sumatra Province and Asmat, Papua Province. The study was conducted in collaboration with the local governments in Nias and Asmat. The result of the study was formulated into recommendation for the local governments to solve nutrition problems in their area.

In order to be able to give higher contribution in tackling nutrition problem at the national level, collaboration with private sectors with strong market influence is necessary. Our mission in this collaboration is to influence the industry to provide products marketed with ethics, safe, and provides adequate nutrients according to the latest findings in science. On the basis of this mission, we have been involved in a product development of nutritional products for children. The activity starts from product development, and sensory evaluation of the product before it was finally marketed.

CH2N also conducts seminar and symposium and results from our studies are published in international symposium. Currently, CH2N is involved in the development of district regulation related to food in collaboration with local government of Kebumen District in Central Java.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Research in Asmat district, a remote area in Papua Province</td>
</tr>
<tr>
<td>2009</td>
<td>Post-tsunami research in Nias, North Sumatra Province</td>
</tr>
<tr>
<td>2000</td>
<td>Establishment of Center for Human Health and Nutrition</td>
</tr>
</tbody>
</table>

Chair’s message

Dear Colleague,

It has been over 15 years since the establishment of Center for Human Health and Nutrition (CH2N). Since a long time ago we have been concerned about inequality in health status in the country. Eastern parts or remote areas usually have less health program coverage, thus for most cases, suffer from more prevalent disease or poor health condition such as malnutrition. Fifteen years probably is a relatively young age for an establishment, but there should be so much more that we can do for the society in terms of improving nutritional status and wellbeing, indiscriminate of age groups, sex, ethnicity, and territorial. CH2N will always be there to participate in all kind activity to improve nutrition and health status of the community.

Prof. dr. M. Juffrie, SpA(K), PhD
Center for Health Financing Policy and Health Insurance Management

Strengthening Evidence Based Health Financing Policy

Health Technology Assessment Course: A collaboration between the Center for Health Financing Policy and Health Insurance Management, Faculty of Medicine, Universitas Gadjah Mada and Institute of Health Policy and Management, Erasmus University Rotterdam.

**Story behind the picture**
Health Technology Assessment and Economic Evaluation Course were organized by the Center for Health Financing Policy and Health Insurance Management, Faculty of Medicine, Universitas Gadjah Mada in collaboration with Institute of Health Policy and Management, Erasmus University Rotterdam in December 2015. The course were conducted to train students from the Master of Clinical Medicine, Public Health, Nursing, Dentistry, and Pharmacy about the basic principles of Health Technology Assessment, Framing Decision Problem, Cost-effectiveness studies and modelling. The participants were expected to have better understanding on economic evaluation of health care technologies and transferability issues.
Profile

Vision
To become the center of excellence and trendsetter in development of system, policy, and implementation on health financing and health insurance in Indonesia and insurance, and health financing in hospital, state-owned enterprises and non-state owned enterprises.

Mission
The Center for Health Financing Policy and Health Insurance Management are to develop the concept and implementation of health financing system and health insurance management through scientific research, training and consultation, and network development in local, regional, and global with policy makers, government, non-governmental organizations, and people.

Program Outlines

1. Research
   Research concerning topics on health financing concepts and health insurance management.

2. Training
   Strengthening the scientific capacity and professional skills by organizing short courses, thematic skills trainings, and postgraduate educations.

3. Consultation
   Consultation programs about health financing and health insurance management, including unit cost, managed care, regional health financing

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Annual Scientific Meeting (ASM) 2015 organized, entitled Measuring the Implementation of National Health Insurance: Input Improvements for the Implementation</td>
</tr>
<tr>
<td>2015</td>
<td>National Health Insurance Seminar on Achieving Universal Health Coverage in Indonesia and Equality Challenges</td>
</tr>
<tr>
<td>2015</td>
<td>Nuffic project started, in collaboration with Amsterdam and Vriej University, the Netherland.</td>
</tr>
<tr>
<td>2015</td>
<td>Training on TB Costing Tool and Economic Burden for Health Service District/City</td>
</tr>
<tr>
<td>2015</td>
<td>Massive Open Online Course (MOOC) seminar conducted, collaborating with the Center of Innovation and Policy (PIKA) Universitas Gadjah Mada</td>
</tr>
</tbody>
</table>
Center for Herbal Medicine

Bridging Scientificiation of Herbal Medicine

Story behind the picture

Herbal trainees practicing how to identify active compounds in natural ingredients (herbs) using thin layer chromatography (TLC). Active compounds are secondary metabolites produced by natural ingredients including herbs. It is responsible for activity, toxicity and synergy. Two participants were preparing the stationary phase. Two other participants were dissolving extract using specific solvent. Two other participants were making the mobile phase to move the active compounds contained in the extract according to the polarity gradient.

Identification of active compounds in herbs
Profile

Center for herbal medicine was formally established in July 2010. Prior to its establishment, lecturers with research interests in herbs formed the Herbal Medicine working group which then became the Center. The vision is to become an excellent and reputable center of international herbal ingredients research, oriented to the interests of the nation and society based on Pancasila.

The key driver of the establishment of the Center of herbal medicine is its popularity among students. Half of the medical students enrolled in the class of 1999-2001 took herbal medicine for their thesis. Similarly, the center also attracts many master and doctoral students to conduct studies on herbal medicine. Until now, herbal medicine continues to be a popular research topics among undergraduate and postgraduate students at the Faculty of Medicine, Universitas Gadjah Mada.

The Center of Herbal Medicine also involved lecturers and researchers from the Faculty as well as clinical practitioners from the Dr. Sardjito Hospital. Their background ranges from basic medical science to clinical medicine who are interested in the development of herbal medicine. Interdisciplinary collaboration are performed in three areas: exploration test material, preclinical test and clinical trials.

Several studies have been conducted and are still ongoing in the following areas: anticancer, antimalarial, larvicides, antifertility, nutraceutical, antirheumatic, antikeloids and aphrodisiac.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Center for Herbal Medicine established</td>
</tr>
<tr>
<td>2013</td>
<td>Herbal Medicine block piloted and became the Traditional Health Education curriculum in undergraduate medical education.</td>
</tr>
<tr>
<td>2013</td>
<td>Training for doctors and paramedics on herbal services initiated</td>
</tr>
<tr>
<td>2014</td>
<td>Counseling to community about the efficacy and safety of herbal products</td>
</tr>
<tr>
<td>2015</td>
<td>Support the herbal-based medical care program in Dr. Sardjito Hospital.</td>
</tr>
</tbody>
</table>
Pediatric Research Office
Department of Child Health

Embarking on a world-class research journey and networking for a better future of child health

Story behind the picture

One of the long-standing research collaborations in PRO is rotavirus study started from disease surveillance to vaccine development and trial. Rotavirus diarrhea is one of the major causes of morbidity and mortality in under 5 children in developing countries including Indonesia. After Prof Ruth Bishop discovered rotavirus in 1973, Prof. Yati Soenarto initiated rotavirus study with her. This led to the commencement of the Indonesian rotavirus study from 1976 up to today. The available rotavirus vaccine – the currently most efficacious preventive measure – has only shown moderate efficacy in developing countries, such as Indonesia. To counter this problem, we are conducting phase IIb clinical trial of a new rotavirus vaccine (RV3-BB clinical trial) in collaboration with MCRI, Australia and BioFarma, which provides a new hope for reducing the burden of rotavirus diarrhea in Indonesia and the world.
Chair’s Message

Started from individual studies, we are committed to embark on a world-class research journey and networking for a better future of child health. Diverse expertise and collaborators empower us to become the part of global health community without leaving our local wisdom.

Year 2016 has brought a motivating achievement to PRO. PRO is a home to multiple researchers in child health. Several young promising health professionals are also involved in our researches as they are our future.

Honesty, sincerity, ethical, and altruism are the basic philosophies of our dedicated works reflected in the spirit of “Tulus (sincere) and nothing to lose”.

Prof. Dr (HC) dr. Sri Suparyati Soenarto, PhD, Consultant in Pediatric Gastroenterology.

Profile

Pediatric Research Office (PRO) was officially recognized as a unit in the Child Health Department Faculty of Medicine UGM in 2010. However, the idea of developing an integrated research center has been raised since 1976. The initial studies focused on diarrhea, tuberculosis and dengue, which were and are still the highest causes of child morbidity and mortality in Indonesia. Nowadays, PRO is covering a broader scope of diseases, spanning from epidemiology, clinical, public health policy, medical technology, clinical trial, and ethics-based translational studies.

We expand our networking with many national and world-class collaborators. National collaborators include Ministry of Health, Bio Farma, local governments, hospitals, primary health cares, faculties of medicine, Danone – Sari Husada, Yayasan Tahija, Timika Research Facility. International collaborators include Murdoch Children Research Institute – Royal Children Hospital Melbourne, World Health Organization – South East Asia Regional Office, Bill and Melinda Gates Foundation, Centre of Disease Control and Prevention, UNICEF, USAID, GlaxoSmithKline, NUMICO, Wellcome Trust, The Australia Indonesia Centre, Vrije Universiteit, Universiteit Leiden, University Amsterdam, Monash University Australia, University of New South Wales, National University of Singapore, Harvard University, The Rockefeller University, Menzies School of Health Research and many others. We have also published our research in many national and international scientific journals.

As a research institution, PRO believes that diversity is our power and passion to make a breakthrough in medical science. Our staff comes from various backgrounds such as pediatricians, pharmacologists, microbiologists, general practitioners, pharmacists, nurses, midwives, nutritionists, social scientists, statisticians, and public health experts. These transdisciplinary staff offer different perspectives and knowledge toward comprehensive vision to deal with health problems.

Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976</td>
<td>First international collaboration</td>
</tr>
<tr>
<td>1980</td>
<td>First international publication</td>
</tr>
<tr>
<td>2000</td>
<td>Initiation of Pediatric Research Office</td>
</tr>
<tr>
<td>2010</td>
<td>Official unit under the Child Health Department, Faculty of Medicine UGM</td>
</tr>
<tr>
<td>2013</td>
<td>Award from the National Innovation Committee (Komite Inovasi Nasional-KIN) for long standing collaboration between academicians and government industry with international collaborators</td>
</tr>
<tr>
<td>2016</td>
<td>Expanding to 32 national and international collaborators</td>
</tr>
</tbody>
</table>
Viva Medika

Viva Medika is known to civitas academica, Faculty of Medicine Universitas Gadjah Mada. Composed by dr. Damudoro Nuradyo SpS(K), Viva Medika song was firstly introduced in the 40th Anniversary of the Faculty in 1986.

The song conveys a strong spirit and deep-rooted philosophy. Started with “Bersatu padu Civitas Medika giat berkarya”, this reflects the intention to become united as a medical community when different parts of the Faculty of Medicine was still located in different buildings.

Our society always plays a high expectation toward medical-health professional. The sentence “menjunjung tinggi martabat mulia serta tridarma” gently wrap the hope that all medical doctors (and health professionals) have to have a strong dignity in teaching, conducting research and serving the people (Tridharma). Science advancement should only bring knowledge, affection and skills to the benefit of the people. Viva Medika: Long live the Faculty of Medicine.

dr. Damudoro, the composer, hopes that in the future, Faculty of Medicine Universitas Gadjah Mada provides the best education for medical-health professionals and gives equal opportunity for all potential students regardless of their socio-economic status.
Division and Staff

Department of Anatomical Pathology
Division in Female Genital Tract and Breast Pathology
1. Dr. dr. Irianiwati, SpPA(K)
2. dr. Ahmad Ghozali, SpPA(K)

Division in Hematoreticular and Endocrine Pathology
1. dr. Indrawati, SpPA(K)
2. dr. Nungki Anggorowati, SpPA

Division in Soft Tissue, Bone, Cardiovascular, Nerve, and Sensing Pathology
1. dr. Rita Cempaka, SpPA
2. dr. Ery Kus Dwianingsih, PhD

Division in Gastrointestinal Tract, Liver, Oral, and Respiratory Tract Pathology
1. dr. Didik Setyo Heriyanto, SpPA, PhD
2. dr. Dewiyani Indah Widasari, SpPA, PhD

Division in Kidney, Male Urogenital Tract, and Skin Pathology
1. dr. Hanggoro Tri Rinonce, SpPA, PhD
2. dr. Paranita Ferronika, SpPA

Consultant in Department of Anatomical Pathology
1. Prof. Dr. Soeripto, SpPA(K) (Consultant of oncology)
2. dr. Harijadi, SpPA(K) (Consultant of liver and gastrointestinal tract pathology)
3. dr. E. Sukarti, SpPA(K) (Consultant of female genital tract pathology)
4. dr. J B Soebroto, SpPA(K) (Consultant of respiratory tract pathology)
5. dr. Endang Sutristi, SpPA(K) (Consultant of female genital tract pathology)
6. dr. FX. Ediati Triningsih, MSc, SpPA(K) (Consultant of female genital tract pathology)
7. dr. Totok Utoro, DMedSc, SpPA(K) (Consultant of perinatal pathology)
8. dr. Sagiri Mangunsudirdjo, SpPA(K) (Consultant of kidney and male genital tract pathology)
9. dr. Prijono Tirtoprodjo, SpPA(K) (Consultant of liver and gastrointestinal tract pathology)

Department of Anatomy

Division in Macroanatomy
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2. dr. Santosa Budiharjo, MKes, PA(K)
3. dr. Dwi Yatmo, MS, PA

Division in Neuroanatomy
1. Dr. dr. Dwi Cahyani Ratna Sari, MKes, PA(K)
2. dr. Junaedy Yunus, MSc
3. dr. Dian Prasetyo Wibisono, MSc

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1. dr. E. Suryadi, MHPE, SU, PA(K)
2. dr. Muhammad Mansyur Romi, SU, PA(K)
3. dr. Ch. Tri Nuryana, MKes

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2. Rusyad Adi Suriyanto, SSos, MSi
3. Janatin Hastuti, SSI, MKes, PhD

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2. dr. Bowo Adiyanto, MSc, SpAn

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2. dr. Pandit Sarosa H, SpAn, KAR

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2. dr. Bambang Suryono S, SpAn, KIC, KA

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2. dr. Yunita Widyastuti, SpAn, KAP
3. dr. Muhdar Abubakar, SpAn, KAP

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2. dr. Akhmad Yun Jufan, MSc, SpAn, KIC

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4. Uki Noviana, SKeP, Ns, MNSc  
5. Ariani Arista Putri Pertiwi, SKeP, Ns, MAN  
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3. Sutono, SKp, MSc, MKep  
4. Eri Yanuar Akhmad BS, SKeP, Ns, MNSc(IC)  
5. Happy Indah Kusumawati, SKeP, Ns

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2. Dr. Pramudji Hastuti, Apt., MS  
3. dr. Liza Destaria  
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2. Dra. Prasetyastuti, Apt., MKeS  
3. Prof. Dr. dr. Zainal Arifin Nang Agus, SU  
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2. Dra. Tasmini, MKeS  

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2. dr. Ifta Choiriyah, MSPH  
3. Lastdes Christiani Friday, SGz., MPH  
4. Althaf Setiawan, SSi., MPH  
5. Anggriyani Wahyu P., SKM, MPH  
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2. dr. Citra Indriani, MPH  
3. Agung Nugroho, AGM, MPH  
4. dr. Rosalia Kurniawati Harisaputra  
5. Bayu Satria Wiratama, SKed., MPH  
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2. Anis Fuad, S.Ked, DEA  
3. dr. B. J. Istiti Kandarina, Dr.rer.nat.  
4. Drs. Abdul Wahab, MPH  
5. dr. Prima Dhewi Ratrikaningtyas, MBiotech.  
6. dr. Amirah EW  
7. Prof. dr. Djaswadi Dasuki, MPH, SpOG(K), PhD  
8. Prof. dr. Mohammad Hakimi, SpOG(K), PhD  
9. Prof. dr. Ova Emilia, MMed., SpOG(K), PhD

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2. Prof. dr. Bambang Irawan, SpPD(K), SpJP(K)  
3. dr. Hendry Purnasidha Bagaswoto, SpJP  
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2. dr. Hasanah Mumpuni, SpPD, SpJP(K)  
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**Division in Cardiology Intervention**  
dr. Nahar Taufiq, SpJP(K)  
**Division in Arrhythmia**  
dr. Erika Maharani, SpJP(K)  
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2. Dr. Dyah Wulan Anggrahini, PhD, SpJP  
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4. dr. Dyah Samti Mayasari, PhD
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2. Dr. dr. Sri Mulatsih, SpA(K)
3. dr. Pudjo Hagung, PhD, SpA(K)
4. Prof. Dr. dr. Sunarto, SpA(K)

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2. dr. Noormanto, SpA(K)
3. dr. Indah Kartika Murni, M Kes, SpA

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2. dr. Neti Nurani, Mkes, SpA(K)

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2. dr. Setya Wandita, SpA(K), Mkes
3. dr. Tunjung Wibowo, MPH, Mkes, SpA
4. dr. Alifah Anggraeni, MSc, SpA

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2. dr. Braghmandita Indar W., Msc, SpA

Division in Neurology
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2. Prof. dr. Sunartini, PhD, SpA(K)
3. dr. Agung Triono, SpA(K)

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2. Prof. dr. Sri Suparyati Soenarto, PhD, SpA(K)
3. Prof. dr. Muhammad Juffrie, PhD, SpA(K)
4. dr. Wahyu Damayanti, SpA(K)
5. Dr. dr. Titis Widowati, SpA(K)

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2. dr. Ratni Indrawati, SpA
3. dr. Eggi Arguni, MSc, PhD, SpA

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1. dr. Roni Naning, MKes, SpA(K)
2. dr. Dwikisworo Setyowireni, SpA(K)
3. dr. Amalia Setyati, SpA(K)
4. dr. Rina Triasih, MMed(Paed), PhD, SpA(K)

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2. Dr. dr. Siti Muchayat, SpPK(K)
3. Dr. Med. dr. Suwarso, SpPK(K)
4. dr. Riat El Khair, SpPK

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2. dr. Teguh Triyono, M Kes, SpPK(K)
3. dr. Haryono Soeharto, SpPK(K)

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2. Dr. dr. Tri Ratnaningsih, Mkes, SpPK(K)
3. dr. E. Henny Herningtyas, Msi, PhD, SpPK
4. dr. Setyawati, SpPK(K)

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2. dr. Ira Puspitawati, M Kes, SpPK
3. dr. Arum Tri Wahyuni

Division Endocrinology and cardio-cerebrovascular
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2. dr. Windarwati, SpPK(K), MSc
3. dr. Sri Tentrem, SpPK

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2. dr. Agnes Sri Siswati, SpKK(K)
3. dr. Shinta Trilaksmi Dewi  
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2. dr. Flandiana Yogianti, PhD  
3. dr. Husna Raisa, M.Sc., Sp.KK  

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2. dr. Arief Budiyanto, PhD, SpKK(K)  
3. Dyah Ayu Mira Oktarina, PhD, SpKK  

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2. Dwi Retno Adi Winarni, SpKK(K)  
3. Dr. dr. Yohanes Widodo W, SpKK(K)  
4. Dr. dr. Yohanes Widodo W, SpKK(K)  

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1. dr. Fajar Waskito, MKes, SpKK(K)  
2. dr. Niken Indrastuti, SpKK(K)  
3. Sri Awalia Febriana, MKes, SpKK, PhD  

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2. dr. Nurwestu Rusetianti, MKes, SpKK  
3. dr. Iryani Andamari, SpKK  

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1. Dr. Med. dr. Retno Danarti, SpKK(K)  
2. Dr. dr. Niken Trisnowati, SpKK  
3. Dr. dr. Niken Trisnowati, SpKK  
4. dr. I Putu Yudha Hananta  

**Department of Ear, Nose, and Throat (ENT)**  
**Division in Otology**  
1. dr. D. A. Edhie Samodra, SpTHT-KL(K)  
2. dr. Dyah Ayu Kartika Dewanti, MSc, SpTHT-KL  

**Division in Neurology and Community ENT**  
1. Dr. dr. Bambang Udji Djoko R., SpTHT-KL(K), M  
2. dr. Ashadi Prasetyo, MSc, SpTHT-KL  

**Division in Oncology**  
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2. dr. Sagung Rai Indrasari, SpTHT-KL(K), MKes, FIC  
3. dr. Camelia Herdini, SpTHT-KL, MKes  

**Division in Rhinology and Immunology Allergic**  
1. dr. Kartono Sudarman, SpTHT-KL(K)  
2. dr. Luh Putu Lusy Indrawati, SpTHT-KL(K), MKes  
3. dr. Dian Paramita Wulandari, MSc, SpTHT-KL  

**Division in Broncoesophagology and Laringopharingology**  
1. dr. Siswanto Sastrowijoto, SpTHT-KL(K), MH  
2. dr. Agus Surono, PhD, SpTHT-KL, MSc  

**Department of Family, Community and Bioethics**  
**Division in Family and Community Medicine**  
1. Prof. Dr. dr. Adi Heru Sutomo, MSc, DCommNutr  
2. Dr. dr. Wahyudi Istiono, MKes  
3. Prof. dr. Hari Kusnanto Josef, SU., Dr.PH.  
4. dr. Hikmawati Nurokhmanti, MSc  
5. Erlina Erlina, SIP, MA  

**Division in Neurology and Community ENT**  
1. Dr. dr. Bambang Udji Djoko R., SpTHT-KL(K), M  
2. dr. Ashadi Prasetyo, MSc, SpTHT-KL  

**Division in Bioethics and Humanities**  
1. Prof. Dr. dr. Soenarto Sastrowijoto, SpTHT  
2. Prof. dr. Sri Suparyati Soenarto, PhD, SpA(K)  
3. wika Hartanti, M.IH  
4. dr. Nur Azid Mahardinata  

**Department of Forensic Medicine and Medicolegal**  
**Division in Medicolegal**  
1. dr. Lipur Riyantiningsihtyas, BS, SpF  
2. dr. RA Kusparwati Ika P, SpF  

**Division in Pathology Forensic**  
1. dr. Hendro Widagdo, SpF  
2. dr. Martiana Suciningtyas, SpF  
3. dr. Wikan Basworo, SpF  

**Division in Clinical Forensic**  
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2. dr. Beta Ahlam Gizela, SpF, DFM  

**Division in Identification Forensic**  
1. dr. Yudha Nurfantari, SpF, PhD  
2. drg. Sara Afari G., Mkes  

**Division in Toxicology Forensic**  
1. dr. Yudha Nurfantari, SpF, PhD  
2. dra. Suhartini, Apt., SU  

**Department of Health Nutrition**  
**Division in Community Nutrition**  
1. Dr. Toto Sudargo, SKM, MKes  
2. Dr. Siti Helmyati, DCN, MKes  
3. dr. Emy Huriyati, MSc  
4. Yayuk Hatriyanti, SKM, MKes  
5. Mirza Hapsari, MPH, RD
6. Mutiara Tirta, SGz., MIPH
7. Ahmed Fahmy Arif, SGz, MSc, Dietisien
8. Aziz Jati Nur Ananda, SGz

**Division in Clinical Nutrition**
1. Dr. Susetyowati, DCN, MKes
2. Tomy Arjuna, SGz., MNut-Diet., Dietisien
3. Perdana Samekto, SGz, MSc, Dietisien
4. Avira Ermamilia, SGz, MGz, Dietisien

**Division in Food Service Management**
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2. Ika Ratna Palupi, SGz, MSc, Dietisien
3. Fasty Arum Utami, SGz.

**Division in Functional Food and Nutraceutical**
1. Dr. Lily Arsanti Lestari, STP, MP
2. Fatma Zuhrotun Nisa', STP, MP

**Division in Molecular Nutrition**
1. Harry Freitag Luglio, SGz., MSc, Dietisien
2. Dian Caturini Sulistyoningrum, BSc, MSc
3. Rio Jati Kusuma, SGz., MSc

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2. dr. Fatwa Sari Tetra Dewi, MPH, PhD
3. Dra. Retna Siwi Padmawati, MA
4. Supriyati, SSos, MKes
5. Fitrina Mahardani Kusumaningrum, SKM, MPH

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1. Drs. Wiranto, MKes
2. Drs. Qomaruddin, MKes

**Department of Health Policy and Management**

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2. Prof. dr. Ali Ghufron Mukti, MSc, PhD
3. dr. Hafidz Firdaus As Shiddiq, MPH, AAK

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2. dr. Yodi Mahendrahadha, MSc, PhD
3. Dr. dr. Andreasta Meliala, DPH, MKes, MAS
4. Dr. Dra Diah Ayu Puspandari, Apt, MKmkes,MBA

**Division in Health Management Information System:**
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2. dr. Guardian Yoki Sanjaya, M.HlthInfo

**Division of Histology**

**Division in Histology**
1. Dr. Sri Herwiyanti, MS
2. drg. Yustina Andwi Ari Sumiwi, MKes.
3. dr. Beni Sulistiono

**Division in Biology Cell**
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2. Dra. Dewajani Purnomosari, M.Si., PhD
3. Dewi Kartikawati Paramita, S.Si., M.Si., PhD
4. Jajah Fachiroh, S.P., M.Si., PhD

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2. Dr. Drs. Muhammad Ghufron, MS
3. dr. Rina Susilowati, PhD

**Department of Internal Medicine**

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2. dr. Sumardi, SpPD-KP
3. dr. Bambang Sigit Riyanto, SpPD-KP
4. dr. Eko Budiono, SpPD-KP
5. dr. Heni Retnowulan, MKes, SpPD-KP
6. dr. Ika Trisnawati, MSc, SpPD
7. dr. Yusrizal, Sp.P
8. dr. A. Morita Iswari

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2. dr. Putut Bayupurnama, SpPD, KGEH
3. dr. Sutanto Maduseno, SpPD, KGEH
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Writing this book has been a joyful experience. We thank all those who spent valuable time and effort. A great teamwork from all the authors, secretaries, photographers and editors make the completion of this book comes true. We would also like to express our gratitude to all the previous Deans for the leadership inspirations, to all contributors from Departments, Research Centers, and Study Programs for a very great cooperation.

This book is dedicated to Indonesia and to you, who will write the next history of Faculty of Medicine, Universitas Gadjah Mada.

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