INSTITUT PASTEUR
OMI SEMINAR
in
SALZBURG

“Pandemics”

August 22 – 26, 2017
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Group Photo of Faculty and Fellows
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FACULTY
Wolfgang Aulitzky, MD is the Medical Director of the American Austrian Foundation.
He is Associate Dean for International Medicine and Distance Learning, Adjunct Prof. of Clinical Urology and Adjunct Prof. of Clinical Reproductive Medicine at the Weill Medical College of Cornell University/New York Presbyterian Hospital. In 2016, he was appointed Adjunct Professor of Pediatrics in the Associated Faculty of the Perelman School of Medicine at the Children’s Hospital of Philadelphia. He is also Associate Prof. of Urology at the Medical University of Innsbruck and Visiting Professor at the Medical University of Vienna.
Amongst others he is a member of the American, German and Austrian Societies of Urology and was awarded the Zuckerkandlpreis of the Austrian Society of Urology in 1989. In 1995 he received the Silver Medal, in 2007 the Golden Medal for Merits to the Republic of Austria and in 2014 the cross of honor of the Land Salzburg.
As Director of the Medical Program of the American Austrian Foundation he has initiated the Open Medical Institute, a scientific and educational collaboration of Weill Cornell and the NewYork Presbyterian Hospital, the Children Hospital of Philadelphia, Duke University, Columbia University, the Cleveland Clinic and leading hospitals in Austria. Dr. Aulitzky earned his medical degree at the University of Innsbruck in 1977, was a research associate at the University of Uppsala, Sweden and the Rockefeller University, New York. He received his training as an urologist at the University of Innsbruck and the General Hospital of Salzburg. He is the author of more than 140 publications on Urology, Andrology and Health Care issues and is co-author of books on basic and clinical urology/andrology.

Wolfgang Aulitzky, MD
Director, Open Medical Institute
American Austrian Foundation

Gerhard Andlinger Professor and Associate Dean for International Medicine & Distance Learning
Adjunct Professor of Clinical Urology
Adjunct Professor of Clinical Reproductive Medicine
Weill Medical College of Cornell University

Associate Professor of Urology
Medical University of Innsbruck, Austria

Visiting Professor
Medical University of Vienna

Mailing address:
Kärntner Straße 51/II/Top 4
1010 Vienna, Austria

Phone: +43-1-533 8658
Fax: +43-1-533 8658-10
Email: w.aulitzky@openmedicalinstitute.org
Arnaud Fontanet, MD, DrPH (Course Director) is a medical epidemiologist (MD Paris V; DrPH, Harvard School of Public Health, 1993) specialized in infectious diseases epidemiology. After working at the WHO Global Program on AIDS (1993-1994), he spent five years in Ethiopia and two years in the Netherlands with the Ethio-Netherlands AIDS Research Project (1994-2001). In 2002, he joined Institut Pasteur in Paris to launch the Emerging Diseases Epidemiology unit. There, his focus has been on viral hepatitis C and emerging viruses. Arnaud Fontanet is also Professor of Public Health at the Conservatoire National des Arts et Métiers, where he is Director and co-founder of the Pasteur-Cnam School of Public Health. In 2014, he was appointed as Director of the newly created Centre for Global Health at Institut Pasteur.

Arnaud Fontanet, MD
Head of the Emerging Diseases Epidemiology Unit
Institut Pasteur
25, rue du Docteur Roux
75015 Paris
France

Phone: +33-140-613-763
Email: arnaud.fontanet@pasteur.fr
Rebecca Grant, MSc is the research officer within the Institut Pasteur Center for Global Health and project assistant for the Institut Pasteur Outbreak Investigation Task Force.

Rebecca Grant, MSc
Research Officer
Centre for Global Health
Institut Pasteur
25, rue du Docteur Roux
75015 Paris
France

Phone: +33-145-688-186
Email: rebecca.grant@pasteur.fr
Roy (Trip) M. Gulick, MD, MPH is Rochelle Belfer Professor in Medicine and Chief of the Division of Infectious Diseases at Weill Cornell Medicine in New York City. Dr. Gulick's research interests include designing, conducting and analyzing clinical trials to refine antiretroviral therapy strategies for HIV treatment and prevention and assess antiretroviral drugs with new mechanisms of action. He currently serves as Principal Investigator of the Cornell—New Jersey Clinical Trials Unit of the AIDS Clinical Trials Group (ACTG), sponsored by the National Institutes of Health. He also serves as Co-Chairman of the Panel on Clinical Practices for Treatment of HIV Infection of the U.S. Department of Health and Human Services (U.S. DHHS Guidelines) and as a Board Member of the International Antiviral Society-USA. He is a member of the American Society of Clinical Investigation, the Association of American Physicians, the Infectious Diseases Society of America, and the International AIDS Society and has presented at national and international meetings and published widely in the field of HIV/AIDS.

Roy (Trip) M. Gulick, MD, MPH  
Professor of Medicine  
Chief, Division of Infectious Diseases  
Weill Cornell Medicine  
1300 York Avenue, Box 125  
New York, NY 10065  
USA

Phone: +1-212-746-6320  
Fax: +1-212-746-8675  
Email: rgulick@med.cornell.edu
Stephan Harbarth, MD, MS earned in 1993 his medical degree from Ludwig-Maximilians-University in Munich, Germany, and completed his residency in internal medicine and tropical medicine at Munich University Hospitals. After serving as a clinical fellow in the Infectious Diseases Division and Infection Control Program in the Department of Internal Medicine at Geneva University Hospitals, Dr Harbarth completed his master’s degree in epidemiology at Harvard University in Boston. He is board certified in infectious diseases and was appointed associate professor at the University of Geneva in 2010. Dr Harbarth’s work has garnered several awards, including the ICAAC Young Investigator Award from ASM (2003), the Young Investigator Award from ESCMID (2006), the Swiss Society for Infectious Diseases Award for epidemiological research (2008 & 2011), and the SHEA Investigator Award in 2011.

His research group is currently conducting several clinical and epidemiological studies to evaluate key questions related to the control of the acquisition, transmission and infection by multidrug-resistant microorganisms. We participate in several ongoing large-scale EU-funded studies (R-GNOSIS, Rapp-ID, AIDA, COMBACTE, DRIVE-AB) to address this important public health threat. We collaborate closely with the Genomics Research Laboratory at HUG, based on a productive translational research platform. The most notable examples of their research are the evaluation of different MRSA control interventions (JAMA 2008, BMJopen 2013), the advanced analysis of epidemiologic trends and the health-economic burden of multiresistant microorganisms (JAC 2011, ICHE 2013), the conduct of epidemiologic studies linking patient data with molecular investigations (Clin Infect Dis 2011, ICHE 2014), the evaluation of antibiotic stewardship interventions (Lancet Infect Dis 2010, JAC 2011) and several placebo-controlled, randomised clinical trials to decolonise MRSA and ESBL carriers (JAC 2013, JAC 2015).

Stephan Harbarth, MD, MS
Division of Infectious Diseases
Geneva University Hospitals
4, rue Gabrielle-Perret-Gentil
1211 Geneva
Switzerland

Phone: +41-223-729-828
Email: stephan.harbarth@hcuge.ch
Maria D. Van Kerkhove, PhD is an infectious disease epidemiologist who specializes in outbreaks of emerging and re-emerging pathogens. Dr Van Kerkhove is from the United States and completed her undergraduate degree at Cornell University, a MS Degree at Stanford University, and a PhD in infectious disease epidemiology at the London School of Hygiene and Tropical Medicine.

Dr Van Kerkhove’s main research interests include zoonotic, respiratory and emerging/re-emerging viruses such as avian influenza, MERS-CoV, Ebola, Marburg and Zika. Dr Van Kerkhove is particularly interested in investigating factors associated with transmission between animals and humans, studying the epidemiology of zoonotic pathogens, and ensuring research on infectious diseases directly informs public health policy for action.

Dr Van Kerkhove is currently the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Technical Lead in the World Health Organization’s Health Emergency Program, in the High Threat Pathogens Unit. Dr Van Kerkhove regularly participates in Missions to affected member states, including the Kingdom of Saudi Arabia, Jordan, Qatar and the Republic of Korea. Prior to WHO, she was the Head of the Outbreak Investigation Task Force at Institut Pasteur’s Center for Global Health where she was responsible for establishing public health rapid response teams for infectious disease outbreaks. Dr Van Kerkhove was previously employed by Imperial College London in the MRC Center for Outbreak Analysis and Modelling where she worked closely with WHO on influenza, yellow fever, meningitis, MERS-CoV and Ebola Virus Disease. She lives in Geneva Switzerland with her husband Neil and son Cole.

Maria D Van Kerkhove, PhD
MERS-CoV Technical Lead
High Threat Pathogens, Global Infectious Hazards Management, Health Emergencies Program
World Health Organization
Avenue Appia 20
1211 Geneva
Switzerland

Phone: +41-227-911-817
Email: vankerkhovem@who.int
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FELLOWS
**Petya Argirova, MD**  
Bulgaria  
Teaching/research/clinical Assistant, Resident

University Hospital St. George - Plovdiv  
Peshtersko Shose  
4000 Plovdiv, Bulgaria  
Phone: +35-9-895708405  
Email 1: petia_med6@abv.bg

---

**Hristiana Batselova, MD**  
Bulgaria  
Assistant Professor, Specialist

Medical University Plovdiv  
Vasil Aprilov 15A  
4000 Plovdiv, Bulgaria  
Phone: +35-9-886820002  
Email 1: dr_batselova@abv.bg

---

**Nedim Begic, MD**  
Bosnia and Herzegovina  
Teaching/research/clinical Assistant, General Practitioner

Ju Dom Zdravlja Breza, PhD student "Biomedicine and Health", Medical Faculty University of Tuzla  
Sehidska 12  
71370 Breza, Bosnia and Herzegovina  
Phone: +38-7-32783288  
Fax: +38-7-32789190  
Email 1: nedim_begic91@hotmail.com  
Email 2: bega_morski_vuk@hotmail.com
Victor Hugo Borja Aburto, PhD     Mexico
Professor, Chief Executive Officer
Mexican Social Security Institute
Hamburgo 18
06600 Mexico, Mexico
Phone: +52-5-555662721
Fax: +52-5-555662701
Email 1: victor.borja@imss.gob.mx
Email 2: v.borjaaburto@yahoo.com.mx

Daciana Nicoleta Dascalu, MD, PhD     Romania
Teaching/research/clinical Assistant, Attending Physician
CF Hospital Sibiu; V. Papilian Medicine Faculty of Sibiu
Department of Internal Medicine
C. Noica Str. 19-21
550169 Sibiu, Romania
Phone: +40-2-69213163
Email 1: daci.nicoleta@gmail.com
Email 2: ddaci@rdslink.ro

Justin-Bienvenu Eyong, MD     Cameroon
Teaching/research/clinical Assistant
Epicentre - Doctors Without Borders
1828 - Bastos, PO Box: 12069 Yaounde
237 Yaounde, Cameroon
Phone: +23-7-676127085
Email 1: justin4eyong@gmail.com
Email 2: Eyong.Justin@epicentre.msf.org
Arsilda Gjataj, MD  Albania
Resident

University Hospital Center of Tirana
Dibra Str. 372
1001 Tirana, Albania
Phone: +35-5-4363644
Fax: +35-5-4363644
Email 1: arsilda_88@live.com

Yury Gorbich, MD, PhD  Belarus
Dean, Chief of Service

Belarusian State Medical University - Faculty of Preventative Medicine
Dzerjinsky Ave. 83
220116 Minsk, Belarus
Phone: +37-5-172726756
Email 1: y.gorbich@gmail.com
Email 2: gorbichyl@bsmu.by

Alise Gramatniece, MD  Latvia
Teaching/research/clinical Assistant, Specialist

Pauls Stradins Clinical University Hospital
Department of Internal Medicine
13 Pilsonu Street
1002 Riga, Latvia
Phone: +37-1-28682589
Email 1: alise.gramatniece@gmail.com
Gildas Boris Hedible, MD, MPH  Senegal
Institute Pasteur of Dakar
36, Avenue Pasteur
Senegal Dakar, Senegal
Phone: +22-1-338399246
Email 1: hgildas@hotmail.com
Email 2: ghedible@pasteur.sn

Alvard Hovhannisyan, MD, PhD  Armenia
Assistant Professor, Specialist
Yerevan State Medical University
Department of Internal Medicine
Armenakyan 135
0025 Yerevan, Armenia
Phone: +37-4-10650182
Email 1: alla_hovh@yahoo.com

Fidan Huseynova, MD  Azerbaijan
Teaching/research/clinical Assistant, Assistant Attending Physician
Azerbaijan State Medical University
Department of Pediatrics
Yusif Seferov 17
1025 Baku, Azerbaijan
Phone: +99-4-503100988
Email 1: h_fidan@mail.ru
Cristina Josanu, MD  Moldova, Republic of  
Teaching/research/clinical Assistant, Specialist

National Center for Public Health, Department of Virology
Gh. Asachi 67/a
2028 Chisinau, Moldova, Republic of
Phone: +37-3-022574572
Email 1: cristinajosanu@yahoo.com

Ayubhon Kayumov, MD, MSc  Uzbekistan  
Departmental Chairman, Attending Physician

Tashkent Institute of Postgraduate Medical Education
Parkentskaya 51
100007 Tashkent, Uzbekistan
Phone: +99-8-998132626
Email 1: kamoffaaa@gmail.com

Eka Khabazi, MD  Georgia
Specialist

National Center for Disease Control and Public Health (NCDC)
9, Asatiani St.
0105 Tbilisi, Georgia
Phone: +59-9-5949391
Email 1: eka khabazi@gmail.com
Almudena Laris Gonzalez, MD  Mexico
Staff Physician

Hospital Infantil de Mexico Federico Gomez
Dr. Marquez
06720 Ciudad de Mexico, Mexico
Phone: +52-5-552289917
Email 1: almu_laris@hotmail.com

Gorica Maric, MD  Serbia
Teaching/research/clinical Assistant, Resident

Faculty of Medicine, University of Belgrade
Visegradska 26A
11000 Belgrade, Serbia
Phone: +38-1-113607062
Fax: +38-1-113607062
Email 1: goricamaric87@gmail.com
Email 2: gorica.maric@med.bg.ac.rs

Oksana Martinuka, MPH  Latvia
Specialist

Centre for Disease Prevention and Control of Latvia
Department of Preventive Medicine
Duntes Street 20/5
1005 Riga, Latvia
Phone: +37-1-67081520
Email 1: oksana.martinuka@spkc.gov.lv
Email 2: oksanamartinyk@gmail.com
Florie Miftari-Basholli, MD    Kosovo
Specialist
National Public Health Institute of Kosova/NIPHK
Rr Nena Tereze pn Te rrethi
10000 Pristina, Kosovo
Phone: +37-7-44137010
Email 1: florambasholli@gmail.com

Benson Mwakalukwa, MD    Tanzania, United Republic of
Departmental Chairman, Attending Physician
Haydom Lutheran Hospital
Department of Internal Medicine
Haydom
9000 Haydom, Tanzania, United Republic of
Phone: +25-5-272533194
Fax: +25-5-272533734
Email 1: benanalm@yahoo.com
Email 2: benanalm@gmail.com

Akbope Myrkassymova, MSc    Kazakhstan
Teaching/research/clinical Assistant, Attending Physician
Kazakh National Medical University named after Asphendiyarov
Department of Obstetrics and Gynecology
Tole Bi, 94
050012 Almaty, Kazakhstan
Phone: +72-7-2927937
Email 1: akbope.myrkassymova@gmail.com
Email 2: Akbope86@gmail.com
Carolina Ortega, MD, MPH    Mexico
Professor, Chief Executive Officer

Mexican Social Security Health Planning Coordination
Reforma Avenue, No. 476
06600 Mexico City, Mexico
Phone: +52-5-555531873
Email 1: mcspcarolados@gmail.com
Email 2: carolina.ortega@imss.gob.mx

Irina Pavlovsk, MD, PhD    Republic of Macedonia
Associate Professor, Specialist

Institute of Epidemiology and Biostatistics, Medical Faculty
Department of Preventive Medicine
Majka Tereza 31
1000 Skopje, Republic of Macedonia
Phone: +38-9-3109664
Email 1: irina.pavlovsk@yahoo.com

Mihaja Nomena Raberahona, MD    Madagascar
Teaching/research/clinical Assistant, Specialist

University Infectious Diseases Unit, University Hospital
Joseph Raseta Befelatanana, Antananarivo
University Hospital of Antananarivo
Antananarivo, Madagascar
Phone: +26-1-20222384
Email 1: raberahona@gmail.com
Email 2: raberahona@outlook.com
Octavian Sajin, MD  Moldova, Republic of
Teaching/research/clinical Assistant, Division Chief
National Center for Public Health, Division of Viral
Hepatitis and Blood Borne Infections
Gh. Asachi 67/a
2028 Chisinau, Moldova, Republic of
Phone: +37-3-022 574 524
Email 1: octavian.sajen@yahoo.com
Email 2: ovtavian.sajen@cnsp.md

Slavko Savovic, MD  Montenegro
Resident
Klinical Centre Of Montenegro
Ljubljanska BB
81000 Podgorica, Montenegro
Phone: +38-2-20412412
Email 1: slavko.savovic@kccg.me

Roxana Trejo Gonzalez, MD  Mexico
Attending Physician
Centro Medico ABC Santa Fe
Av Vasco de Quiroga 154 Contadero
05370 Mexico, Mexico
Phone: +52-5-516647227
Email 1: ateneaaxe@hotmail.com
Email 2: rtrjog@abchospital.com
From August 22 to 26, the Open Medical Institute Salzburg was fortunate enough to welcome twenty-seven fellows from around the world to discuss an ever-increasingly relevant topic: pandemics. The general trend of urbanization across the globe poses a problem for public health officials—especially in developing countries, where the governments sometimes lack adequate resources and services to curtail crises. However, even developed countries with ample resources are vulnerable to outbreaks of super-bugs—a problem greatly exacerbated by humanity’s excessive use of antibiotics. Pandemics have recently attracted a lot of attention in the media, most notably during the West African Ebola outbreak of 2014 and the 2015/16 American Zika Virus outbreak during the Rio de Janiero Olympics.

Although seminars normally run the entire course of the week here at Schloss Arenberg, this group only had three days of instruction together, but they definitely made the most of their time here. Unlike other areas of medicine, which focus on workshops and demonstrations, pandemics are less tangible in nature. As such, this week’s lectures were centered on case studies and lessons from history. Faculty turned to examples such as Zika in French Polynesia and the Caribbean, Hepatitis C in Egyptian hospitals, and the nosocomial outbreak of MERS.

The first day contained a number of talks by Course Director Arnaud Fontanet of the Pasteur Institute on a variety of topics. Of particular interest was the last lecture of the day: a case study on Acute Encephalitis in North Vietnam, which colleague Rebecca Grant presented alongside Dr Fontanet. Thursday saw a number of lectures from Dr Maria van Kerkhove, two of which focused on her extensive research into MERS. The Salzburg OMI was fortunate enough to welcome Dr Roy "Trip" Guilick back once again, where his vast knowledge of and insights on HIV/AIDS are always impressed onto fellows. Finally, Dr Stephan Harbarth capped off the week on Friday afternoon with two lectures on the nosocomial transmission of diseases.

Fellows presented their own cases to each other at the end of both Wednesday and Thursday, with eight cases receiving recognition by faculty and recommendation for our case library. The week was concluded Friday with a formal graduation ceremony and dinner in one of Schloss Arenberg’s halls. Twenty-seven fellows received DFP credit, but far more valuable than that was the amount of knowledge shared and brain gain initiated. The Salzburg OMI looks forward to working with the Institut Pasteur in the future, and hopes to host these motivated fellows again within our walls.
22 August, Tuesday
After a 12 hours shift in my workplace, Primary Health Care Center on Monday, on Tuesday at 6 am I started my journey from Sarajevo to Vienna, and then to Salzburg. On the first day I arrived around 4 pm and went to the Schloss Arenberg to check in for the participation. At the first sight, I thought that Schloss Arenberg was truly remarkable place and the staff that welcomed me there was really polite and helpful. At 7 pm we had an opening ceremony followed by nice speeches from the Faculty Board. All of the participants seemed really happy and satisfied to be a part of this seminar. Accommodation was great, considering the rooms, food and every other aspect. Atmosphere was friendly and all of the participants and members of the Faculty board were happy to meet each other and to be part of this seminar.

23 August, Wednesday
We all got the program and welcome bag the day before so we knew that we should be at 7 o’clock in the restaurant for the breakfast and that lectures start at 8 am. Although the daily program for the lectures was quite long on the first sight, somehow the hours passed quickly because the lectures were amazingly good and interactive. First lecture was held by Arnaud Fontanet and it was an interesting overview about the meaning and influence of infectious diseases during history. Also, on the same day we heard a basic things about epidemiological indicators presented on simple and easily understandable way so that we could follow the rest of the lessons. Then, after lunch, we heard an interesting case study titled “Pediatric Acute Encephalitis-like syndrome outbreaks in Northern Vietnam” presented by Rebecca Grant. After that, fellow’s held few presentations and I was happy to hear all the different and interesting case studies from all parts of the world. At the evening we had a nice dinner and drink.

24 August, Thursday
On Thursday we had a chance to hear presentations held by Maria Van Kerkhove. She gave us a detailed explanation of the Steps in Outbreak Investigations through some examples from her career that helped us to understand better the topic. Second presentation was about MERS-COV outbreak in the Middle East, which was a great example of complex and interesting outbreak of infectious diseases. After this, Roy Gulick held us a lecture about HIV virus and AIDS which was one of the best lecture I attended to, considering the topic and the way of presenting the lecture. I learned a lot of new things since I didn’t have the chance to meet with the patients infected by HIV virus in everyday work, so it was extremely useful for me. For the end, second part of fellow’s presentation was held. After dinner, most of us went for a walk and a drink in the beautiful city of Salzburg and we really had a nice time. We were all in a good mood despite the lectures lasted until 7 pm.

25 August, Friday
As on the days before, our breakfast started at 7 am and working part of the seminar started at 8 am. Arnaud Fontanet was presenting us about the Hepatitis C virus in terms of emergence and modes of transmission and he also presented us a case study about Acute Hepatitis C in Fever Hospitals in Egypt. I really learned a lot on these lectures, because he showed us a great knowledge and expertise in this field and did it on the way that was easily understandable giving us the opportunity for interactive type of lesson. After the Coffee Break we had a chance to hear more about Zika pandemic from the same lecturer which was a really big outbreak in modern history followed by great media interest. Also, the presentation was great and it really showed us many things we didn’t know about this topic. After the
lunch, a new lecturer was introduced to us. Stephan Harbarth from Geneva University Hospitals shared his knowledge and experiences about Antimicrobial resistance and Control of Nosocomial Outbreaks of Multiresistant Bacteria. He really showed us the magnitude of this problem and necessity for the more serious approach in solving this situation in whole world. We heard two case studies from Stephan Harbarth which were really interesting and which helped us to connect theoretical and practical knowledge considering this topic. I heard what is really important for preventing nosocomial outbreaks and what should be the procedures if the outbreak happens. At the end we had a post seminar test which everyone solved quite well, I believe. I am saying that because the quality of presentation was really good, and everyone certainly learned a lot of new things. Since we finished with lectures a bit earlier on Friday, we had a chance to walk through the city center again and to meet Salzburg. Then we attended to the graduation ceremony where we got certificates and we heard a short speeches from the lecturers. After that, we had a great dinner and we were hanging out. At the end, Wolfgang Aulitzky held us a truly inspirational speech that made me realise that we were a part of the great project that will certainly make our future better and the future of our children. We left the hotel after graduation ceremony for the night out in the city of Salzburg and we all together had a nice conversation in one of the pubs in Salzburg. All of the fellow’s exchanged their contacts and promised to meet one day again which I hope that will be true.

26 August, Saturday
This was the day only for departures, but most of us still had a chance to spend a few hours hanging out in this beautiful city. We all were happy that we were part of this seminar and surely this experience enriched everyone’s life in many aspects. I believe that all of the participants were thankful to the Faculty And Organising Comitee on the amazing couple of days in Salzburg. Everyone went home with beautiful memories.
22 August, Tuesday
Although I was a bit tired after spending whole day exploring Salzburg I was excited about welcome reception and meeting other participants. At welcome reception participants started lively introducing themselves to each other. Starting questions were “where are you from?” and “is it your first time participating in the OMI seminar?”. Although former participants looked more confident and active, and had some useful recommendations for new-comers. Dr. Wolfgang Aulitzky in his welcome speech mentioned that unlike to previous seminars for this particular seminar participants were from more different countries. That is of course great as it gives us opportunities to know more about medicine in countries other than Post Soviet Union countries.

23 August, Wednesday
After the breakfast, a seminar started by Arnauld Fortanet introducing himself to the group, and consequently each participant introduced themselves to the group. So we found how diverse our background were. Although I have recently got MSc degree in Public Health I felt myself a bit “out of the plate” as my background specialty is on gynaecology. As it is scheduled we took a preseminar test, answering to them I had doubts as topics were not quite familiar to me.

So first lecture. It was a kind of an introductory lecture. There was second lecture after coffee break which was in addition to the first one in terms of key elements of epidemiology of communicable diseases. Those lectures were important for me as I am neither epidemiologist nor a clinician in infection unit.

After the lunch there was a seminar which I enjoyed so much. It was a discussion around case study which took place in Vietnam. It was helpful in terms of understanding and imaging practice done real life settings. Thanks for Dr. Fontanet. His lectures reminded me the time when I studied at LSHTM, interesting and captivating!

Presentations from fellows made me feel uncomfortable since I had not prepared mine. I regret I could not make it as it would be helpful to know their opinion.

Discussion was followed by well prepared dinner which was the wonderful end of the day.

24 August, Thursday
In the morning, during the breakfast participants were asking each other how they slept. Probably that was because the first lecture day was a little bit tiring.

So for the first half of the day we had two lectures from Maria Van Kerkhove. First one was very good. It helped me to understand the whole process of investigation and the main differences from a research project. And I liked how she delivered it since she was periodically emphasising key elements and differences. With the same approach we had second lecture on MERS. The topic itself is something new for me. And I had to admit before I thought if disease is not circulating in my area (country) then I do not need to worry about it. However, I realised later that travelling or expats can bring in diseases to my country so that it my cause an outbreak.
The case study we had after lunch enhanced our understanding of outbreak investigation practice. After that there was a lecture by Roy Gulick. This lecture is my favourite one. He managed to put a lot of information in one presentation and it was surprisingly understandable. I mean that he touched many aspects of HIV topic and he did it with chronological flow of the HIV issues. That was much more understandable and interesting at the same time. Later on I asked other follows which lecture they enjoyed most. And most of them agreed with me on HIV lecture.

Case presentations from the fellows made the end of the second seminar day. As I am not a specialist on communicable diseases during the seminars I had assistance from fellows sitting next to me. They helped me a lot in clarifying some particular things that I was confused of.

Almost forgot but we had a group photo session with faculty members during coffee break time.

25 August, Friday

After breakfast there were lectures on Hepatitis C and ZIKV delivered by Arnaud Fortanet. I learnt a lot from them, especially on cohort effect in case of Hepatitis C. So I am wondering if there are other diseases which has been affected by a similar effect. A lecture on ZIKV clarified many things in my mind, and again with a help of fellows from Mexico.

Afternoon gave us an opportunity to enjoy the lecture from Stephan Harbath. This lecture was helpful in terms of providing new information (article materials) and solution to practical issues. The lecture was followed by a post-seminar test. I think second time I did better than first one.

After having 2 hours break kindly provided by Administration we were gathered for graduation ceremony and dinner. Wolfgang Aulitzky gave his final speech touching current situation in East European and Central Asian countries, and the aim of the programme. And also he mentioned that there are more opportunities for future work with OMI.

After dinner we headed to the city Center to have some walk, group photos and some drink in the pub.

In addition to new knowledge, this seminar gave me an opportunity to meet with those wonderful professionals with different backgrounds, to opinion exchange and to set network and apply it in my practice. The beauty of this programme is that it makes you think wider and generate new ideas. I feel very lucky to have a chance to attend this seminar, and I am very thankful to Faculty members and OMI team for doing this.