



First Global Forum on **Medical Devices**

Bangkok, Thailand | September 9–11 2010



**World Health
Organization**

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Message from the Director-General

I am pleased to welcome you to this first Global Forum on Medical Devices. I thank the government of Thailand and its Ministry of Public Health for hosting and supporting this event.

The timing is opportune. People everywhere are living longer, and the medicines and technologies, including medical devices, that keep them alive are becoming increasingly sophisticated and costly. In a world of radically increased interdependence, unhealthy lifestyles are spreading with an astonishing speed and sweep. Chronic diseases, once associated with affluence, now impose their greatest burden on poor and disadvantaged groups, further deepening their poverty.

Public expectations for good quality and affordable health care are rising at a time when the health sector in nearly every country faces a chronic shortage of funds and threats of budget cuts. Throughout the developing world, fair access to essential health care is further compromised by a crippling shortage of health care personnel. Advances in medicine and technology continue to race ahead, yet an ever greater proportion of the world's population is left behind for a host of reasons, including those with economic and social causes. No wonder, then, that the difference in life expectancy between the richest and poorest countries now exceeds 40 years.

It is against this background of great promise and vast unmet needs, of clear benefits offered by medical devices contrasted with weak capacities to choose and use them, that this first Global Forum on Medical Devices is being held. The issues you will be addressing are vital to global health development, yet complex and challenging, requiring views from multiple disciplines and different country perspectives. You are tasked to help set the agenda for a more rational approach to the development, acquisition, and use of medical devices. This is an area full of promise, sometimes spectacular promise, but it also has a number of pitfalls, some familiar, others unique.

Above all, your guidance is needed to help ensure that the benefits of medical devices are reaped in line with the broader objectives of health development, which respond to the disease burden, give priority to unmet needs, and respect national health objectives and capacities.

Needless to say, medical devices, whether inexpensive or costly, purchased or donated, will be useless in the absence of staff trained in their use, erratic power supplies, and inadequate funds, spare parts, and skills for maintenance.

These are only some of the many challenges you will be addressing. I wish you a most productive meeting, and thank the members of the organizing and steering committees for doing so much to facilitate your work.

*Dr Margaret Chan
Director-General
World Health Organization*

Message from the local organizing committee

Despite the advancement of technology and strong commitment of the global community to attain the Millennium Development Goals set for 2015 as well as other international health declarations, inaccessibility to essential health technologies including essential medical devices is one of the major problems in both rich and poor countries. Patients frequently do not receive the most cost-effective preventions, diagnoses and treatments, which results in poor health outcomes and disproportionate spending in the health sector. Many patients are driven into poverty due to the high expense in accessing essential technologies to solve their 'catastrophic health problems'. On the other hand, there is still a great demand for innovative technologies to make a significant impact on public health in resource-limited settings.

The Royal Thai Government is pleased and committed to co-host with WHO in organizing the First Global Forum on Medical Devices. This global forum aims at raising the issues related to research and development, regulation, assessment, management and utilization of, and access to essential medical devices. This is to achieve the ultimate goals of universal access to and rational use of essential medical devices among the population in need.

In Thailand, we have been promoting equitable access and efficient use of medical devices through the central bidding and vendor managed inventory systems under the Universal Health Coverage Scheme since 2002. Some examples of the initial successes are universal access to coronary stents, peritoneal and haemodialysis, artificial hip and knee joints, intraocular lenses for cataract and hearing aids, at no cost. In this regard, we wish to share with and learn from all distinguished delegates and speakers, who come from all over the world, how to strengthen expertise in the field of medical devices. We hope that this global forum will be another social movement towards reducing the gap in the access to essential health technologies.

On behalf of the Local Organizing Committee, I would like to give you a warm welcome to the fascinating capital city of Thailand, Bangkok. It is our great honor to co-host this global forum and we wish you all a wonderful and enriching event.

Dr. Suwit Wibulpolprasert
Chair of the Local Organizing Committee



Organization

Steering committee

Chair, Secretariat

Adriana Velazquez Berumen

Coordinator Diagnostic Imaging and Medical Devices Unit, Essential Health Technologies
World Health Organization

Members

Jennifer Barragan, World Health Organization

Deirdre Dimancesco, World Health Organization

Björn Fahlgren, World Health Organization

Josee Hansen, Ministry of Health, Welfare and Sport, the Netherlands

Peter Leeftang, Ministry of Health, Welfare and Sport, the Netherlands

Yot Teerawattananon, Ministry of Public Health Thailand

Sripen Tantivess, Ministry of Public Health Thailand

Laura Sampietro-Colom, Health Technology Assessment International (HTAi);

Yadin David, International Federation for Medical and Biological Engineering (IFMBE)

Guy Maddern, International Network of Agencies for Health Technology Assessment (INAHTA)

Bart Wijnberg, Ministry of Health, Welfare and Sport, the Netherlands

International organizing committee

Salma Abbasi, Worldwide Group

Barry Allen, IUPESM

David Banta, Consultant

Simao Campos, ISO

Monique Dory, MSF

Kalipso Chalkidou, NICE

Martha Emma Escandon, CENETEC

James Fitzgerald, PAHO/WHO

Charles A. Gardner, Forum for Health Research

Timothy Hancox, ISO

Myriam Henkens

Kendall Ho, University of British Columbia

Sabina Hoekstra-van den Bosch

Adham Ismail, EMRO, WHO

Jennifer Jackson, ACCE

Ed Kelly, Patient Safety, WHO

Chapal Khasnabis, Assistive Devices, WHO

Paul LaBarre, PATH

Blerta Maliqui, MPS, WHO

Joseph Lazar Mathew, HTAi

Geeta Mehta, SEARO, WHO

Iyad Mobarek, EMRO, WHO

David Porter, Consultant

Sarah Russell, Hss, WHO

Roger Schmitt, HDS, WHO

Peter Smith, IOMP

Ludo Scheerlinck, UNICEF

Herbert Voigt, IFMBE

David Watson, ECRI

Jomkwan Yothasamut, HITAP, Ministry of Health, Thailand

Poster Committee

Secretariat

Jennifer Barragan, World Health Organization

Review Committee

David Banta

Jennifer Jackson

Iyad Mobarek

David Porter

Sripen Tantives

HTM Success Stories

Ismael Cordero

Antonio Hernandez

Tom Judd

Binseng Wang

Local Organizing Committee

Chair

Suwit Wibulpolprasert

Office of the Permanent Secretary, Ministry of Public Health

Members

National Health Security Office

National Health Commission Office

Food and Drug Administration, Ministry of Public Health

Department of Medical Sciences, Ministry of Public Health

Department of Medical Services, Ministry of Public Health

Social Security Office

World Health Organization Thailand

Health System Research Institute

National Science and Technology Development Agency

The Medical Council of Thailand

Thai Medical Device Technology Industry Association

Foundation for Consumers

Bureau of Policy and strategy, Ministry of Public Health

Health Consumer Protection Project, Chulalongkorn University

Thai Health-Global Link Initiative Project, Mahidol University

The International Health Policy Program, Ministry of Public Health

Biomedical Instrument Division, Siriraj Hospital

Bureau of International Health, Ministry of Public Health

Medical Device Control, Food and Drug Administration, Ministry of Public Health

Health Intervention and Technology Assessment Program, Ministry of Public Health

Useful information

Currency

The Thai currency is called the Thai Baht (THB). It is officially used in shops and normal commerce. Currency exchange counters can be found throughout the airport, banks in the city and big shopping malls.

Foreign credit cards and ATM cards holders can withdraw Thai Baht at any of the ATM machines with display stickers all over the airport and around the country. Credit cards are widely accepted in shopping malls.

Getting Around

BTS SkyTrain (Bangkok mass Transit System) and Metro (Metropolitan Rapid Transit) are considered the most convenient way to get around the city centre area. The conference venue can be accessed by BTS SkyTrain.

BTS SkyTrain

BTS SkyTrain operates from 06.00 - 24.00 everyday with two main lines, Sukhumvit and Silom. Fares range from 15 to 40 Baht based on the distance. One Day Pass is available at 120 Baht. The conference venue can be accessed by BTS SkyTrain. (Ploenchit sky train station on BTS Sukhumvit line).

Metropolitan Rapid Transit or MRT

MRT runs from Hua Lamphong (Bangkok Railway Station) to Bang Sue. The MRT operates from 06.00 - 24.00 every day. Fares range from 16 Baht to 41 Baht for adults and 8 Baht to 21 Baht for children and elders.

Taxis

Taxis in and around Bangkok are reliable and inexpensive. Fares vary according to the distance that is calculated by taxi meters.

Samlo (Tuk-Tuk)

Samlo is a three-wheeled taxi without a meter. Fares are normally cheaper than ordinary taxis but passengers need to negotiate with the driver beforehand. It is suitable for short trips.

Bus

Travelling by bus is the cheapest way to get around Bangkok but can be crowded. Passengers need to know the route well before taking the bus.

Emergency

Emergency call centre (Police, Fire, Ambulance)	191
Tourist Police (English, German, French)	1155
Tourist Assistance Centre	022815051
Tourism Authority of Thailand (TAT)	1672

Internet

Free Internet/WiFi will be available to guest staying at the Plaza Athenee (WHO special rate). Other guests and participants may purchase internet (WiFi) access on a daily basis.

Six computer stations with internet will be available for participants at the venue.

Shopping

Thailand Shopping Hours

Most shops, including those in malls and departments store complexes, are generally open from 10 am to 10 pm, though opening hours are typically longer in tourist areas than in smaller local towns.

Some shops close on Sundays, though most major stores in Bangkok and those in tourist towns are normally open seven days a week. Night markets typically begin at dusk and close around midnight.

VAT Refunds

Visitors entering the Kingdom on a tourist visa are entitled to a 7% VAT refund on goods purchased at registered retail outlets and Thailand duty free stores. The VAT refund may be claimed on a minimum total of purchases worth 5,000 baht from receipts totaling no less than 2,000 baht/receipt/day. After purchasing goods at a store, visitors must fill out VAT refund paperwork at the store, providing passport and travel information at that time. At the airport, paperwork must be presented to customs officers before passing through immigration at the VAT refund office; at Suvarnabhumi the VAT refund office is near the entrance to Domestic Departures

MORE Tips

There are many counterfeit goods in Thailand of varying quality, some more convincing than others. All goods purchased in Thailand, such as gems or electronic items, should be examined closely before purchase. Be wary of purchasing expensive items from a new “friend” that happens to know someone who can get you a great deal. Ask stores for return policies and always ask for a receipt.

Press

Please be aware that members of accredited media outlets and conference photographers will be present during the conference.

Meals

The local organizing committee will be providing all coffee breaks and lunches as well as dinner on 9 September.

Languages

Please note that the official language of the conference is English. Translation will be provided in selected sessions in French and Spanish. Please check the daily agenda for these sessions.

Security

Please note that only participants with badges provided by the forum will be allowed in the conference area.

Electronic conferencing

Spotme

At check-in, you will be provided with a Spotme electronic device which will enable you to carry out the following functions:

Networking

- Choose the people you want to meet with the Spot function
- Send instant messages to other participants

Conference agenda

- Find the agenda and any last minute changes

Give your input

- Provide input in selected sessions
- Active voting
- Provide feedback on the forum

Questions

- Submit questions to speakers in selected sessions through the Spotme device

Briefcase

- Store business cards, notes and background information in the briefcase and retrieve the files from a secure server after the event

*PLEASE RETURN THE SPOTME DEVICE AT THE END OF THE FORUM
THANK YOU*



Information for presenters

We would like to thank all presenters for their contributions to the meeting, without them this first meeting could not have been a success.

Oral presentations

Presenters are asked to check in 4 hours prior to their presentation in the Speaker Preparation Room, Japan Room, 2nd floor.

Please note: Those presenting in morning sessions must check in the evening before

Even if you have submitted your presentation in advance and have no changes, you must check in and confirm that the presentation is correct. When you are finished reviewing your presentation and verify it is ready, the AV personnel will queue your presentation.

You must load your visuals from the Speaker Preparation Room. All materials and backup copies should be brought to the Speaker Preparation Room.

Personal laptops cannot be used in meeting rooms while giving your oral presentation.

Please remember:

Session chairs will hold you to the allotted time. This is essential to ensure adequate time for questions and discussion as well as adherence to schedule.

Poster presentations

Posters will be displayed in foyers A and B, in front of the Athenée Crystal Hall (Coffee break area). There will be two poster sessions; one on Thursday 9 September and one on Friday 10 September. At least one of the poster's authors is expected to be at the designated poster area at least 10 minutes before the poster session begins.

Use of Logos

Posters must be free of any commercial identity including but not limited to company names, brand names, and logos.

Please take note of the following poster set up, viewing and take down schedule:

Thursday 9 September 2010

Set up: Before 08:00

Viewing: 10:30-11:15 and 15:15-16:00 (during coffee breaks)

*Please be at your poster 10 minutes prior to the start times

Take down: 18:30-19:30 on 9 September

Friday 10 September 2010

Set up: Before 08:00

Viewing: 10:30-11:15 and 15:45-16:30 (during coffee breaks)

*Please be at your poster 10 minutes prior to the start times

Take down: 18:30-19:30 on 10 September

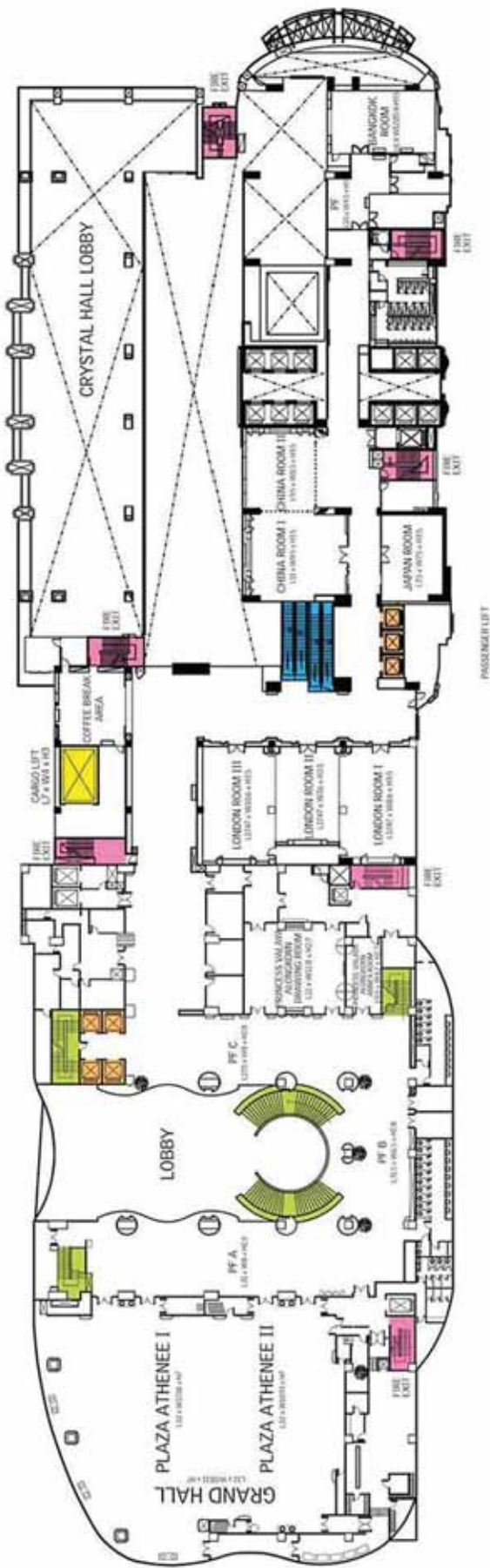
Programme at a glance—9-11 September 2010

ATHENEE CRYSTAL BALLROOM

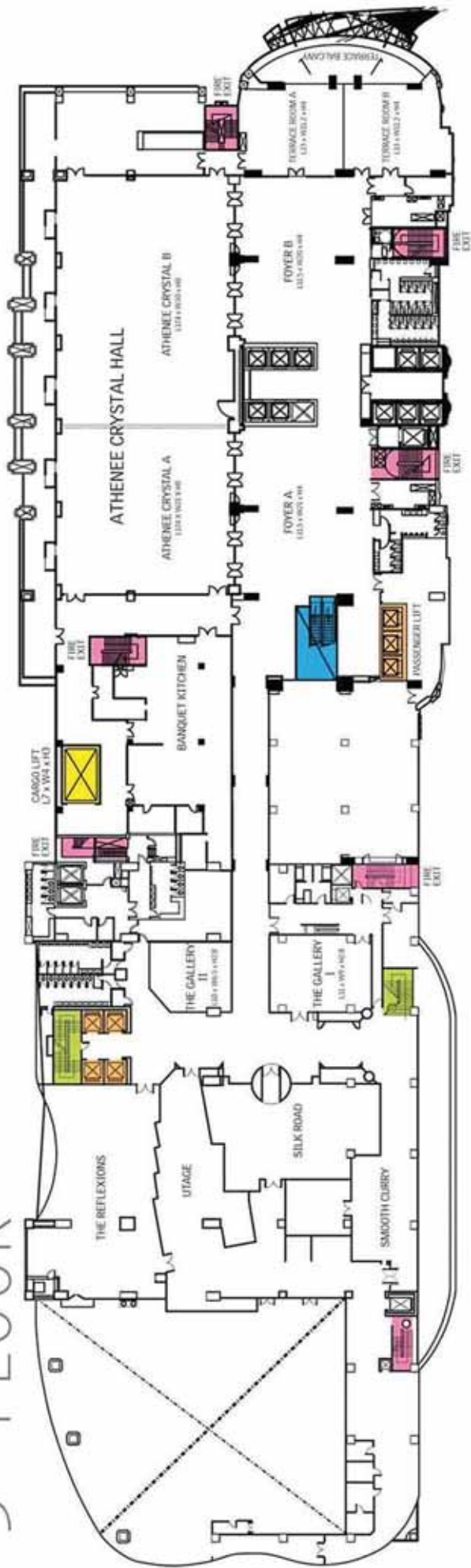
	Day 1—Thursday 9 September	Day 2—Friday 10 September	Day 3—Saturday 11 September
07:00	Check-in		
	Inauguration session		
08:30	Mr Abhisit Vejjajiva, Prime Minister of the Kingdom of Thailand	Future trends in medical devices of relevance to low resource settings - Space medical technology innovation and its global applications - The future of health technology - Q&A [French & Spanish interpretation]	Improving access, quality, and affordability of medical devices through... - Academia - Professional organizations - Technology transfer - Medical technology industry - Q&A [French & Spanish interpretation]
08:50	Dr Margaret Chan, Director-General, WHO [French & Spanish interpretation]		
09:10			
09:15		In search of appropriate and innovative technologies - Local Solutions - Innovation for impact: a collaborative venture - Appropriate technologies - Global health innovations - Q&A [French & Spanish interpretation]	
09:20	Global status on medical devices - Situational global analysis of medical devices - Mismatches in medical devices - Medical device needs in a developing country [French & Spanish interpretation]		
10:05			Ethical practice [French & Spanish interpretation]
10:30	Coffee break and poster session A	Coffee break and poster session B	Coffee break
11:15	Medical devices and universal access - Health systems strengthening and financing medical devices: suggestions for change - Empowering decision makers - Q&A [French & Spanish interpretation]	Strategies to promote safe, affordable, quality medical device use - Health technology assessment - Regulation of medical devices - Medical devices management - Q&A [French & Spanish interpretation]	Closing session Summary of recommendations Day 1, 2 and 3
12:00			Way forward
12:15	Lunch	Lunch	Closing message
12:30			Lunch
13:45	The role of medical devices to improve health service delivery	Health technology assessment, regulation, and management of medical devices when evaluating the needs	
14:00	Track 1: Millennium Development Goals 4, 5 and 6 Room A [French interpretation] Track 2: Meeting the needs Room B [Spanish interpretation] Track 3: The convergence of eHealth and medical devices: implications for the future Room C	Track 1 (HTA): Assessment for innovative and emerging technologies Room A [French interpretation] Track 2 (HTR): Pre-market approval including preclinical and clinical evaluation Room B [Spanish interpretation] Track 3 (HTM): Needs assessment: epidemiological needs, inventories, and medical device lists Room C	Post conference workshops & meetings Technical workshops in English (registration required) Track 1: Health Technology Assessment Room A Track 2: Medical Devices Management Room B Track 3: Medical Devices Regulation Room C Track 4: e-Health Room D
14:45		Prioritization, selection, and harmonization	
15:15	Coffee break and poster session A (continued)	Track 1 (HTM): Equipment incorporation: selection, procurement, and donations Room A [French interpretation] Track 2 (HTA): HTA of medical devices: national prioritization processes Room B [Spanish interpretation] Track 3 (HTR): Harmonization of regulation — challenges and benefits Room C	
15:45		Coffee break and poster session B	
16:00	Safe, accessible and affordable medical devices	Assessment and management: a continuous process	Meeting of the Global Medical Technology Alliance
16:30	Track 1: Towards safe and appropriate radiation treatment Room A [French interpretation] Track 2: Safe medical devices for the patient, the health worker and the environment Room B [Spanish interpretation] Track 3: WHO call for innovative technologies that address global health concerns Room C	Track 1 (HTR): The need for adverse event reporting and post-market surveillance Room A [French interpretation] Track 2 (HTM): Healthcare technology operation: training, safe use, and maintenance Room B [Spanish interpretation] Track 3 (HTA): The need for continuous HTA in developing countries and the role of international organizations Room C	
17:00			
17:30			
19:30–22:00	Reception and dinner at the venue		

Maps

2nd FLOOR



3rd FLOOR



Programme day 1—Thursday, 9 September 2010

ATHENEE CRYSTAL BALLROOM

07:00–08:30	Check-in		
	Inauguration session [French & Spanish interpretation]		
08:30–08:50	Welcome address Mr Abhisit Vejjajiva, Prime Minister of the Kingdom of Thailand		
08:50–09:10	Inauguration address Dr Margaret Chan, Director-General, WHO		
09:20–10:30	Technical session [French & Spanish interpretation] Global status on medical devices Chair: Dr Carissa Etienne, WHO Film Situational global analysis of medical devices Dr Steffen Groth, WHO Mismatches in medical devices Mrs Josee Hansen, Ministry of Health, Welfare, and Sport, Netherlands Medical device needs in a developing country Dr Pasience Kibatala, Saint Francis Designated District Hospital, Ifakara, Tanzania		
10:30–11:15	Coffee break and poster session A		
11:15–12:15	Medical devices and universal access [French & Spanish interpretation] Chair: Mr Bart Wijnberg Co-Chair: Dr Geeta Mehta Keynote addresses: Health systems strengthening and financing medical devices: suggestions for change Dr Charles Ok Pannenberg, The World Bank Empowering decision makers Mr Andrew Dillon, National Institute for Health and Clinical Excellence Q&A		
12:15–13:45	Lunch		
13:45–15:15	The role of medical devices to improve health service delivery Track 1: Millennium Development Goals 4, 5 and 6 [French interpretation] Chair: Dr Joseph Mathew Co-Chair: Dr Nicholas Adjabu ■ MDGs and the role of medical devices, Dr Helene Möller, UNICEF ■ Clinical Practice Guidelines, Dr. Maki Esther Ortiz-Dominguez, Ministry of Health, Mexico ■ Self care, Dr Wiwat Rojanapithayakorn, WHO, Mongolia	Track 2: Meeting the needs [Spanish interpretation] Chair: Mr Mladen Poluta Co-Chair: Dr Adham Ismail ■ The patient perspective, Mr Jeremiah Mwangi, International Alliance of Patients' Organizations ■ Sustainable intensive care unit for newborns, Mr Luciano Moccia, East Meets West Foundation ■ Improving the availability of medical devices, the Ghana experience, Mr John Zienaa, Ghana Health Service ■ Filling the human resource development gap, Dr Saide Jorge Calil, Universidade Estadual de Campinas, Brazil	Track 3: The convergence of eHealth and medical devices: implications for the future Chair: Mrs Jennifer Jackson Co-Chair: Dr Noboru Takamura ■ Telemedicine, Dr Marc Nyssen, International Federation for Medical and Biological Engineering ■ Improving healthcare IT systems through interoperability, Ms Lisa Spellman, HIMSS – Integrating the Healthcare Enterprise ■ eHealth for the Millennium Development Goals, Dr Kendall Ho, University of British Columbia, Canada
15:15–16:00	Coffee break and poster session A (continued)		
16:00–17:30	Safe, accessible and affordable medical devices Track 1: Towards safe and appropriate radiation treatment [French interpretation] Chair: Dr Peter HS Smith Co-Chair: Mr Pablo Jiménez ■ Radiation safety, Dr Caridad Borrás, Universidad Federal de Pernambuco, Brazil ■ Access to radiotherapy, Mr Graeme Morgan, Dr Joanna Izweska, International Atomic Energy Agency ■ Palliative care and medical devices, Dr Barry Allen, International Union for Physical and Engineering Sciences in Medicine	Track 2: Safe medical devices for the patient, the health worker and the environment [Spanish interpretation] Chair: Dr Renato Garcia Co-Chair: Dr Selma Khamassi ■ Syringes, Dr Arshad Altaf, Vanderbilt Institute for Global Health & Bridge Consultants Foundation, Pakistan ■ Mercury, Ms Faye V Ferrer, Health Care Without Harm Southeast Asia; Mr Prasert Surmsuk, Siriraj Hospital, Mahidol University, Thailand	Track 3: WHO call for innovative technologies that address global health concerns Chair: Dr Kathleen Slenko Co-Chair: Mr Björn Fahlgren ■ Selected technology representatives Mr Jorge Ernesto Odon, Argentina Mr José Carlos Lapenna, Brazil Dr Qimin You, China Mr Hermann Kranzl, Germany Dr Sangeeta Das Bhattacharya, India Mr Aman Midha, India Ms Sarah Burgarella, Italy Mr Mark Smith, New Zealand Mr Jens Petter Ianke, Norway Dr Rahul Panicker, United States Ms Anna Young, United States
19:30–22:00	Reception and dinner at the venue		

Poster session day 1—Thursday, 9 September 2010

No.	Title	Author	Organization	Country
DEVICES FOR MATERNAL & CHILD HEALTH				
A01	Strengthening emergency care for mothers, babies and children	David Southall	Maternal and Child Health Advocacy International (MCAI)	United Kingdom of Great Britain and Northern Ireland
A02	MANDATE: Defining maternal and neonatal product needs and profiles	Doris J. Rouse, Emily MacGuire, Elizabeth McClure	RTI International	United States of America
		Robert Goldenberg	Drexel University	United States of America
HEALTH TECHNOLOGY MANAGEMENT SUCCESS STORIES				
A03	Development of Heath Technology Management in Albania	Ledina Picari	Ministry of Health of Albania	Albania
A04	Health care technology management applied to public hospitals in Santa Catarina	Rubia Santos ¹ and Renato Garcia ³	Institute of Biomedical Engineering, Federal University of Santa Catarina	Brazil
		Roberto Eduardo Hess de Souza ²	State Secretary of Health of Santa Catarina	Brazil
A05	A unique model of biomedical engineering — an HTM success story in Africa!	Shauna Mullally, Ebrima Nyassi, and Kevin Taylor	MRC (UK) the Gambia	Gambia
A06	Maintenance courses for eye care instruments	Vijayaraghavan Srinivasan	Aravind Eye Hospital, Madurai	India
A07	Success story of Health Technology Management (HTM) from Jordan	Iyad Mobarek and Firas Dalo	Directorate of Biomedical Engineering, Ministry of Health	Jordan
WHO CALL FOR INNOVATIVE TECHNOLOGIES				
A08	A new instrument for assisted vaginal delivery (fetal extraction): the Odon Device	Odon, J. ¹ <i>(Inventor)</i>		Argentina
		Schvartzman, JA. ² , Krupitzki, HB. ³ and Gadow, EC. ⁶	Centro de Educación Médica e Investigaciones Clínicas "Norberto Quirno" (CEMIC) Research Department - Department of Obstetrics and Gynecology, Buenos Aires	Argentina
		Carroli, G. ⁴	Centro Rosarino de Estudios Perinatales (CREP) Rosario	Argentina
		Merialdi, M. ⁵	World Health Organization (WHO) Department of Reproductive Health and Research. Geneva, Switzerland	Argentina
A09	Technological innovation in the diagnosis of enteroparasitosis	José Carlos Lapenna		Brazil
A10	Development of POC nucleic acid tests for use in developing countries	Lin Hu, Gaolian Xu, Hongying Wang, Huayan Zhong, Jian Shi, Lunbiao Cui and Qimin You		China
A11	System for on-site production of wound irrigation solution	Martina Janßen, Hermann Kranzl and Immanuel Jacobs		Germany
A12	Decision support system for pediatric HIV	Sangeeta Das Bhattacharya	Indian Institute of Technology — Kharagpur	India
A13	Non-invasive screening: a new approach towards solving the anaemia problem	Aman Midha, Abhishek Sen and Yogesh Patil		India
A14	Portable on site cell sorter and counter for HIV and malaria diagnosis	Sarah Burgarella		Italy
		Paolo Lago	San Matteo Hospital, Pavia, Italy	Italy
		Sabina Merlo	Faculty of Engineering, University of Pavia, Italy	Italy
A15	SMS smoking cessation system [draft title]	Mark Smith and Matt Hector-Taylor		New Zealand
A16	Reusable low cost neonatal suction device	Jens Petter Ianke		Norway
A17	A low cost solution for neonatal hypothermia in the developing world	Rahul Panicker and Jane Chen		United States of America
A18	Solar powered autoclaves for distributed surgical instrument sterilization in resource poor settings	Anna Young	Innovations in International Health @MIT & Salud del Sol, Inc.	United States of America
		Vincent Ted Liao, Amber Houghstow, Jose Gomez-Marquez, Kathleen Inman and Paul Hlebowitsh	Innovations in International Health @MIT	United States of America
		Guenther Klatte, ONell Morales and Richard Komp	National Engineering University, Nicaragua	United States of America
		Matthew Pittinger and Lori McIlvaine	Salud del Sol, Inc.	United States of America
HEALTH TECHNOLOGY MANAGEMENT				
A19	Improving availability, effectiveness and safety: online courses on medical device principles, application, support and management	John Tobey Clark ¹	University of Vermont	United States of America
		Luis Vilcahuaman ² and Rossana Rivas ³	Pontificia Universidad Católica de Peru	Peru
		Tatiana Molina Velasquez ⁴	Universidad Instituto de Ciencias de la Salud	Colombia

Superscript numbers indicate order of authorship (if no number indicated then order is from left to right, top to bottom)

His Excellency Mr Abhisit Vejjajiva, Prime Minister of the Kingdom of Thailand

His Excellency Mr Abhisit Vejjajiva, Prime Minister of the Kingdom of Thailand, received his Bachelor of Arts Degree in Philosophy, Politics and Economics, and Master of Philosophy in Economics from Oxford University, UK. He later received his Bachelor of Law and Honorary Doctorate in Law from Ramkhamhaeng University.



In 1992 H.E. Mr Vejjajiva joined the Democrat party of Thailand. Prior to becoming a member of parliament, H.E. Mr Vejjajiva lectured in economics at Oxford University, Chulachomklao Royal Military Academy and Thammasat University. From 1992 to 1994 he was a government spokesperson before becoming the Deputy Secretary to the Prime Minister for political affairs. He has held a chair position for the House Committee on Education Affairs (1995) and the Committee to Consider the National Education bill of 1999 (1998). In 1999 he became the deputy leader for the Democrat party and in 2001 went on to be minister in charge of the Board of Investment (BOI), Counter Corruption Commission, the Office of the Education Council and the Office of the Decentralization to Local Government Organization Committee in the Office of the Prime Minister.

In 2005 H.E. Mr Vejjajiva was named leader of the Democrat party and was the leader of the Opposition in the House of Representatives from 2005 to February 2006 and February 2008 to December 2008. In December 2008 was elected a member of parliament and named Prime Minister of the Kingdom of Thailand.

H.E. Mr Vejjajiva was recognized as one of 100 Global Leaders for Tomorrow by the World Economic Forum in 1992, one of six up and coming leaders for Asia by Time magazine in October 1997 and as one of 20 Leaders for the Millennium Politics & Power by Asiaweek magazine in November 1999.

Dr Margaret Chan

Dr Margaret Chan from the People's Republic of China, obtained her medical degree from the University of Western Ontario in Canada. She joined the Hong Kong Department of Health in 1978, where her career in public health began.



In 1994, Dr Chan was appointed Director of Health of Hong Kong. In her nine-year tenure as director, she launched new services to prevent the spread of disease and promote better health. She also introduced new initiatives to improve communicable disease surveillance and response, enhance training for public health professionals, and establish better local and international collaboration. She effectively managed outbreaks of avian influenza and of severe acute respiratory syndrome (SARS).

In 2003, Dr Chan joined WHO as Director of the Department for Protection of the Human Environment. In June 2005, she was appointed Director, Communicable Diseases Surveillance and Response as well as Representative of the Director-General for Pandemic Influenza. In September 2005, she was named Assistant Director-General for Communicable Diseases.

Dr Chan was appointed to the post of Director-General on 9 November 2006. Her term will run through June 2012.

Dr Carissa F. Etienne

Dr Carissa F. Etienne assumed her role as Assistant Director-General for Health Systems and Services in February 2008. Prior to that, she was the Assistant Director of the Pan American Sanitary Bureau, which is the Secretariat of the Pan American Health Organization (PAHO) and of the American Regional Office of WHO. As Assistant Director since July 2003, she directed five technical areas - health systems and services; technology and health services delivery; health surveillance and disease management; family and community health; and sustainable development and environmental health.



A national of Dominica, Dr Etienne began her career as a medical officer at the Princess Margaret Hospital in her country, where she eventually became the Chief Medical Officer. Throughout her career, she has gained extensive knowledge and experience in various aspects of health management, health systems and health-care delivery, including management of essential drugs, human resource management for primary health care and the integration of health programmes and systems.

Dr Etienne has held high-level posts such as the Coordinator of Dominica's National AIDS Programme, Disaster Coordinator for the Ministry of Health of Dominica, Chairperson for the National Advisory Council for HIV/AIDS and the Director of Primary Health

Care for Dominica. She received her MBBS degree from the University of the West Indies, Jamaica and her M.Sc. degree in community health in developing countries from the University of London.

In addition to serving in her homeland, Dr Etienne has been very active in the regional public health arena, particularly in the transformation of health systems and the introduction of a primary health care approach. She has had a long history of collaboration with PAHO/WHO, and was a founding member of the Technical Advisory Group for the Eastern Caribbean Drug Service. Dr Etienne has also conducted a significant amount of research on health services in Dominica.

Dr Steffen Groth

Dr Steffen Groth, a Danish native, is the Director of the Essential Health Technologies Department of the World Health Organization headquarters in Geneva, Switzerland. He received his Medical Doctorate from the University of Copenhagen and Master of Business Administration from the Copenhagen Business School. Prior to joining the WHO in June 2002, Dr Groth was Director of the Human Health Division of the International Atomic Energy Agency (IAEA). He also worked as a medical hospital director (CEO) at the Viborg Hospital, and a director and professor of the Umeå University Hospital. Dr Groth has also held various teaching positions with the University of Copenhagen within the Department of Clinical Physiology and Nuclear Medicine and with the Department of Radiation Therapy and Oncology. Dr Groth has over 40 years of combined work experience in research and management, and has spent a substantial part of the last 17 years working in the context of public health and development.



Mrs Josée Hansen

Mrs Josée Hansen is currently the chief inspector at the Dutch Health Care Inspectorate. Mrs Hansen is trained as a pharmacist and started her career in the eighties in public and hospital pharmacy. After working in a generic pharmaceuticals plant in Nicaragua, she worked for 7 years in a public pharmacy, owned by a social security insurance company in the Netherlands. There she was responsible for the production of pharmaceutical products for 65.000 patients. In the early nineties she joined the Dutch Health care inspectorate as a senior inspector, with responsibilities for coordinating norms and standards for inspecting pharmacies and medical devices in hospitals. In 1999 she became chief inspector. Since 2007 she has also been project leader at WHO in Geneva, Switzerland, on the Priority Medical Devices project. The project aims at identifying the gaps in availability of medical devices in meeting public health needs on a global level. One of the objectives of the project is to propose a research agenda to close those gaps.



Dr Pascience Laurent Kibatala

Dr Pascience Laurent Kibatala obtained his Doctor of Medicine degree and Masters in Medicine in Tanzania and obtained a Master of Arts in the UK. Dr Kibata was a Fellow to the College of Surgeons of East Africa and College of Surgeons of India from 2002 to 2009 and from 1979 to 1985 and 1990 to 1993 worked as a District Medical Officer and Regional Surgeon/Acting Regional Medical Officer in Tanzania. While from 1994 to 2009 he was the Medical Director to a 371 bedded Hospital which is a WHO collaborating Centre with Research and Training Institutes attached to it. He was a visiting Lecturer to the Public Health Department at the Innsbruck University, Austria from 1978-2005. He is a member to Germany, Cuban and Latin American Surgical Societies and is the President for the International Federation of Rural Surgeons and for the Association of Rural Surgeons of Tanzania. He is also an Adviser to the Tanzania Ministry of Health & Social Welfare and WHO. He has also authored and co-authored several papers.



Dr Charles Ok Pannenburg

Dr Charles Ok Pannenburg studied Law, International Relations, Public Health and Tropical Medicine in Canada and the Netherlands and graduated from the Harvard Business School's Executive Management Program.

He worked for UNHCR, WHO and NGOs based in Africa, Asia, Latin-America and Europe and was a professor of Social Medicine and Epidemiology in Bangladesh. He joined the World Bank in Washington in late 1985/early 1986 as chief health advisor.



Before becoming the bank's most senior technical health official he was a division chief, sector manager and sector leader for health operations and the ranking member of the Bank's Sector Board for Health, Nutrition and Population. Within the World Bank Group his focus included in particular global health & medical research, infectious and neglected diseases of poverty, new approaches for investing in private sector health development in developing countries and the inclusion of the BIC countries as major players in global health.

He was a founding member of the Roll-Back Malaria (RBM) Partnership, as well as the Inter-Agency Pharmaceutical Coordination Group (IPC). He served on the WHO Research Strategy Panel and was a member of the WHO Expert Group on Innovative Financing for Health Research. He also chairs the Netherlands' Government Committee on International Health Policy & Health Systems Research and its research funding program. In addition he serves as Chairman of the Academic Supervisory Committee for Health of the Royal Tropical Institute in Amsterdam. He recently retired from the World Bank. He was recently appointed as TDR Representative for Research to the U.S. in Washington. He regularly teaches on global health issues and holds several teaching assignments worldwide.

Mr Andrew Dillon

Mr Andrew Dillon graduated from the University of Manchester and joined the NHS in 1975. Since then he has held a number of senior management positions, including general manager of the Royal Free Hospital and chief executive of St George's Healthcare NHS Trust, both in London. He helped establish the National Institute for Health and Clinical Excellence (NICE) as its founding chief executive in 1999. He has been a member of a number of international policy forums, including an OECD review of approaches to the adoption of new and emerging health technologies. He was a non-executive director of HTAi, an international organization sponsoring constructive dialogue between health systems and technology developers, between 2003 and 2005 and led a review of technical aspects of the Canadian drug evaluation agency in 2005.



Dr Helene Möller

After many years working with the South African government, the Medical University of Southern Africa and WHO, Dr Helene Möller joined UNICEF in Copenhagen in April 2001 to provide assistance to countries implementing programmes aimed at Preventing Transmission of HIV from Mothers to Children (PMTCT). She joined the WHO Department of Essential Medicines and Pharmaceutical Policies (WHO EMP) in August 2007 as manager of a Reproductive Health (RH) project aimed at ensuring universal access to quality medicines, medical devices and consumables and focal point for strengthening medicine supply systems in general. She returned to Copenhagen in March 2010 to head the Health Technology Centre within UNICEF Supply Division, a unit responsible for enabling access to medical devices and consumables needed health programmes.

Dr Maki Esther Ortiz Domínguez

Dr Maki Esther Ortiz Dominguez has been the Vice Minister of Integration and Development of the Health Sector in Mexico since December 2006. She is a Physician with a post graduated diploma in public administration and has been involved in politics for more than 15 years. In her role as the Vice Minister of Integration and Development of the Health Sector she is in charge of the implementation of the National Electronic Clinical Records Platform, and the creating and usage of Clinical Guidelines, as standard appliances for clinical attention among the public and private health institutions.

While working at the Mexican Deputy Chamber, she promoted reforms that would allow health coverage for the entire Mexican Population, higher financial resources for health, and social entitlements. She was also a federal deputy, representing Tamaulipas County.



Under her Vice Ministry, the National Center for Health Technology Excellence (CENETEC) complied with the WHA60.29 resolution.

Dr Wiwat Rojanapithayakorn

Dr Wiwat Rojanapithayakorn is the representative of the World Health Organization in Mongolia. He joined WHO in 2002, initially as a medical officer in WHO Mongolia for 2.5 years and transferred to lead the HIV/AIDS Team in the WHO China office for 4 years before moving to his current position. Prior to joining WHO, Dr Wiwat was the team leader of UNAIDS Southeast Asia and Pacific Intercountry Team based in Bangkok for 2.5 years. He has worked in the Ministry of Public Health of Thailand for 23 years in different capacities such as the chief of Epidemiology Section, Venereal Disease Division; the chief of Epidemic Intelligence Section of the Centre for Technical Coordination; the first director of National AIDS Programme; the director of a Regional Office of Communicable Disease Control; the chief medical officer and senior advisor on Disease Control; and the first Director of Dengue Control Office of the Department of Communicable Disease Control. Dr Wiwat has a B.Sc, an M.D. and an M.P.H. from Mahidol University in Thailand. He has authored or coauthored more than 100 publications in English and Thai and was the editor or chief editor of over 10 public health journals in Thailand. In February 2010 he received the Prince Mahidol Award in Public Health for 2009 for his efforts in the development and scaling-up of the 100% Condom Use Programme (CUP), which has been widely recognized as an effective HIV prevention intervention that has saved millions of HIV infections in Thailand and many countries in Asia.



Mr Jeremiah Mwangi

Mr Jeremiah Mwangi is a policy and external affairs director at IAPO where he joined in October 2006 as policy and website officer. Mr Mwangi's responsibilities include developing and managing the implementation of IAPO's policy strategy as part of the next strategic plan, coordinating IAPO's policy activities, communicating IAPO's policy to a wide audience and identifying relevant stakeholders to collaborate with. Mr Mwangi's work has included developing IAPO's Policy Statement on Patient Information, developing a series of case studies exemplifying patient-centred healthcare in practice, supporting the development of IAPO's Advocacy Toolkit on Patient Safety and coordinating IAPO's monthly newsletter. Before joining IAPO, Mr Mwangi completed an internship as a policy researcher at a development based charity, where he supported the head of Policy with work related to sustainable livelihoods for refugees and displaced people. He holds a Masters Degree in Public Policy and a BSc in Economics from Brunel University.

Mr Luciano Moccia

Mr Luciano Moccia is international coordinator of the Breath of Life Program (BOL), implemented by the East meets West Foundation, and has contributed to the creation of sustainable NICUs in more than 200 hospitals in Asia, treating more than 45,000 infants per year. After a Masters Degree in Political Economy from the University of Trento in Italy and a Master of Arts in Social Sciences from the University of Roskilde in Denmark, Luciano has worked for 10 years in Vietnam in public health. In 2004, he started BOL, promoting the research of locally-built, sustainable technologies for newborn care in partnership with the private sector. Luciano has co-authored studies in newborn care technologies presented at the Global Health Conference in Washington DC in 2009 and 2010, and other international conferences in global health.



Mr John Zienaa

Mr John Zienaa is the regional clinical engineering manager for the Ashanti Region in Ghana. He holds a Master of Science in Health Services Planning and Management and a Post-Graduate Diploma in Medical Electronics and Equipment management. He received his degree in industrial engineering at the Instituto Tecnológico Rene Ramous Latour in Havana, Cuba in 1985. His first employment was in 1992 at the Komfo Anokye Teaching Hospital and has trained in University of London, Kwame Nkrumah University of Science & Technology, Ghana



Dr Saide Jorge Calil

Dr Saide Jorge Calil received his Masters of Science and Ph.D. from the University of London, U.K., in 1979 and 1984 respectively. He is a professor for the Department of Biomedical Engineering (DEB)/ Faculty of Electrical Engineering and Computing (FEEC) at the University of Campinas (UNICAMP), Brazil. Dr Calil has worked on teaching, research and application of Clinical Engineering subjects since 1987. He is a technical adviser for the Ministry of Health and The National Health Surveillance Agency in Brazil and is a member of the Technical Advisory Group of the World Health Organization. He is an elected member of the Administrative Council of the International Federation of Medical and Biomedical Engineering (AC/IFMBE), chair of the Working Group Developing Country (WGDC/IFMBE) and a co-opted member of the Clinical Engineering Division (CED/IFMBE).



Ms Lisa A. Spellman

Ms Lisa A. Spellman is the senior director of Informatics and Secretary, Integrating the Healthcare Enterprise (IHE) International for Healthcare Management Information Systems Society (HIMSS) Sponsored Domains, and Instructor, the University of Iowa and Saint Ambrose University.

With over 25 years of experience in multiple disciplines, markets and countries. She has engaged in a wide range of healthcare and health IT related efforts including standards development, health information exchange through standards profiling, testing and harmonization initiatives and interoperability of healthcare systems.



In her role as secretary for IHE International, Ms Spellman provides oversight and management support to IHE International an international standards profiling organization. In her role as senior director, Lisa leads a team focused on standards and health IT interoperability including production of HIMSS Interoperability Showcases.

Prior to joining HIMSS, she was vice president for Strategic Initiatives & Member Relations at The National Alliance for Health Information Technology (NAHIT) and founding partner and president of the Rapid Creek Group LLC.

Ms Spellman is a frequent invited speaker and panelist and is an active volunteer in national and community organizations including the HIMSS Public Policy and Legislative Affairs Committees, the Health Record Banking Alliance and on the Board of Directors for the Iowa City Area Chamber of Commerce. She graduated Phi Beta Kappa and Magna Cum Laude with a Bachelor of Arts degree and holds an MBA in marketing and international relations and earned the Certified Professional in Healthcare Information and Management Systems (CPHIMS) in 2008.

Dr Kendall Ho

Dr Kendall Ho is a practicing emergency medicine specialist. He is the founding director of the eHealth Strategy Office at the University of British Columbia in the Faculty of Medicine and is the executive director of the Technology Enabled Knowledge Translation Investigative Centre (TEKTIC) interdisciplinary research team in B.C. Dr Ho is a member of the Royal College of Physicians and Surgeons of Canada's Professional Development Committee. He chairs the International Universities 21 Interprofessional eHealth Steering Committee, and the United Nations Millennium Development Goals Education Steering Committee in the same organization. Dr Ho is a collaborator with the World Health Organization eHealth Observatory. He is the vice president of the International Association of Humanitarian Medicine. Dr Ho's academic and research interests are in technology enabled knowledge translation (TEKT) – the use of information technologies to accelerate the incorporation of latest health evidence into routine practice. Specific directions within TEKT include telehealth, patient safety, public engagement, and evidence based policy translation in eHealth. He is a recipient of a number of provincial, national, and international research grants in eHealth and eLearning, collaborates with provincial, national, and international policy makers in eHealth, and publishes related papers and textbook chapters in these subjects.



Dr Caridad Borrás

Dr Caridad Borrás has a Doctor of Science Degree in Physics from the University of Barcelona, Spain, defending a doctoral thesis done at Thomas Jefferson University, Philadelphia, as a Fulbright scholar. She is certified in Radiological Physics (ABR) and in Medical Health Physics (ABMP). After working at the West Coast Cancer Foundation in San Francisco, California, she ran the radiological health program of the Pan American Health Organization/World Health Organization in Washington DC. Currently, she is a visiting Professor at the Federal University of Pernambuco, Recife, Brazil. She has served/chaired many IOMP, AAPM and HPS committees and now co-chairs the Health Technology Task Group of the IUPESM. She is an ACR and an AAPM Fellow, and was awarded the Spanish Medical Physics Society's Gold Medal.



Dr Joanna Izewska

Dr Joanna Izewska is a medical physicist and head of the Dosimetry Laboratory at the International Atomic Energy Agency (IAEA). From 1981-1986 she worked at the Institute for Nuclear Studies, Otwock-Swierk and in 1987 worked at the Cancer Centre in Warsaw, Poland. She held a postdoctoral position in the USA in 1992-1993 and worked in Belgium with a QA project for radiotherapy centres in central Europe from 1994-1995. In 1996 she joined the IAEA where she is now responsible for the IAEA/WHO TLD postal dose audit service for radiotherapy and is involved in other radiotherapy projects by the IAEA. She has published over 70 scientific papers, abstracts and conference proceedings. Dr Izewska is a co-author of book chapters on dosimetry and medical physics as well as QA in radiotherapy.



Dr Barry J Allen

Dr Barry Allen is a biomedical physicist in the Cancer Care Centre and Clinical School at St George Hospital in Sydney. Previously, he worked at ANSTO as a chief research scientist. He was the president of the International Society for Neutron Capture Therapy and convened the Fourth International Symposium in Sydney in 1990. In 1994, he took up a position as head of Biomedical Physics Research in the Division of Cancer Services at St George Hospital.

Dr Allen has published over 300 papers in neutron capture gamma ray, resonance cross sections, stellar nucleosynthesis, in vivo body composition, neutron capture therapy, macro and micro-dosimetry, microbeams and targeted alpha therapy. He is a professorial fellow of the University of Sydney (1992), Wollongong (1992) and adjunct professor of Physics at UNSW (1997-2004) and recently was appointed conjoint professor in the St George Clinical School of the University of NSW (2004). Dr Allen was a fellow of the Australian Institute of Physics (1972), the American Physical Society (1981), the ACPSEM (1992) and of the Institute of Physics (1999). After serving as president, NSW Branch of the Australasian College of Physical Scientists and Engineers in Medicine (1995-7), he was elected college president in 1998. Dr Allen was elected president of the Asia Oceania Federation of Medical Physics and president of the International Organisation of Medical Physics in 2006. He is the president of the International Union of Physical and Engineering Scientists in Medicine (IUPESM).



Dr Allen founded the international Health Technology Task Group (HTTG) of the IUPESM in 2006 and was the inaugural chair. He convened and chaired the first workshop on palliative radiotherapy for developing countries in Saigon in 2008.

Dr Arshad Altaf

Dr Arshad Altaf is a health behavior and public health specialist working as Senior Training Coordinator with Vanderbilt Institute for Global Health & Bridge Consultants Foundation based in Karachi, Pakistan. He has been working in the area of injection safety for the past 10 years and has closely worked with the SIGN secretariat since its inception. He was instrumental in advocating and moving the injection safety agenda forward, between 2004-2005, that led to the development of hepatitis control programmes in the country. He has a number of publications in the area of injection safety and external reports to his credit. He is also a member of national task force formed by the Ministry of Health in Pakistan. He is currently part of a team in Pakistan that is conducting a systemic review of the prevalence of unsafe injections as part of the global burden of disease study.



Ms Faye Valladolid Ferrer

Ms Faye Valladolid Ferrer is currently the programme officer of Health Care Without Harm Southeast Asia's Mercury in Health Care Program. The program has been providing expertise on mercury free healthcare initiatives in hospitals both government and private, by identifying and ultimately phasing out mercury containing devices in their facilities. In July 2008, the Administrative Order (AO) on the gradual phase-out of mercury containing devices in all healthcare facilities was signed by the Philippine Secretary of Health where Ms Ferrer was part of the drafting committee.

Ms Ferrer is an official representative to the Intergovernmental Negotiating Committee of the United Nations Environment Programme (UNEP) that will decide on a legally-binding treaty on mercury this coming June 2010.

In 2006, she coordinated the Southeast Asian Mercury in Health Care Conference held in the Philippines; the conference set the phase for the conduct of other regional conferences in Latin America, South Africa and India. Early in her career with Health Care Without Harm, Faye has coordinated the 2004 documentation of proper disposal of over 19.5 million syringes used during the Philippine Measles Elimination Campaign Program (PMEC) which has since been presented to various international conferences and foras focusing on the issue waste management and safety injection. She is also a graduate of the Asian Center for Journalism at the Ateneo de Manila University with a Diploma in Journalism.

**Mr Prasert Surmsuk**

Mr Prasert Surmsuk was born in Bangkok, Thailand. He received the Master of Science in Biomedical instrumentation from Mahidol University in 1994. He is currently the director of the Department of Biomedical Instrument at Siriraj Hospital and has experience in maintenance and calibrations of medical devices at Siriraj Hospital for 38 years. He was a invited lecturer in Biomedical Instrumentation at King Mongkut's University of Technology North Bangkok.



Programme day 2—Friday, 10 September 2010

ATHENEE CRYSTAL BALLROOM

08:30–09:15	Future trends in medical devices of relevance to low resource settings [French & Spanish interpretation]		
	Chair: Ministry of Health, TBD Co-Chair: Ms Jennifer Barragan Space medical technology innovation and its global applications Dr Chiaki Mukai, Astronaut, JAXA Space Biomedical Research Office The future of health technology Ms Renata Bushko, Future of Health Technology Institute Q&A		
09:15–10:30	In search of appropriate and innovative technologies [French & Spanish interpretation]		
	Chair: Ministry of Health, TBD Co-Chair: Dr Iyad Mobarek Local solutions Prof Dr Oluyombo Awojobi, Awojobi Clinic Eruwa, Nigeria Innovation for impact: a collaborative venture Dr Kristian Olson, Center for Integration of Medicine and Innovative Technology, Massachusetts General Hospital, Harvard University, United States Appropriate technologies Mr Paul LaBarre, PATH Global health innovations Dr Peter A Singer, McLaughlin-Rotman Centre for Global Health & Grand Challenges Canada Q&A		
10:30–11:15	Coffee break and poster session B		
11:15–12:15	Strategies to promote safe, affordable, quality medical device use [French & Spanish interpretation]		
	Chair: Ministry of Health, TBD Co-Chair: Mr Pablo Jiménez Health technology assessment Dr Laura Sampietro-Colom, Health Technology Assessment International Regulation of medical devices Dr. Ruth Lopert, Therapeutic Goods Administration, Australia Medical devices management Dr David Porter, United Kingdom Q&A		
12:15–13:45	Lunch		
13:45–14:45	Health technology assessment, regulation, and management of medical devices when evaluating the needs		
	Track 1 (HTA): Assessment for innovative and emerging technologies [French interpretation] Chair: Dr Pwee Keng Ho Co-Chair: Dr Iyad Mobarek Speaker: Dr Brendon Kearney, EuroScan	Track 2 (HTR): Pre-market approval including preclinical and clinical evaluation [Spanish interpretation] Chair: Dr Daniel Tan Co-Chair: Mr Björn Fahlgren Speaker: Ms Yuwadee Patanawong, Food and Drug Administration, Thailand	Track 3 (HTM): Needs assessment: epidemiological needs, inventories, and medical device lists Chair: Mr Ronald Bauer Co-Chair: Mr Paul Rogers Speaker: Mrs Maria Luisa Gonzalez Retiz, CENETEC, Ministry of Health, Mexico
14:45–15:45	Prioritization, selection, and harmonization		
	Track 1 (HTM): Equipment incorporation: selection, procurement, and donations [French interpretation] Chair: Mr Ludo Scheerlinck Co-Chair: Dr Nicholas Adjabu Speaker: Mr Sam S B Wanda, Ministry of Health, Uganda	Track 2 (HTA): HTA of medical devices: national prioritization processes [Spanish interpretation] Chair: Dr Berit Morland Co-Chair: Mrs Hayde Reynoso Speaker: Dr Kalipso Chalkidou, National Institute for Health and Clinical Excellence	Track 3 (HTR): Harmonization of regulation – challenges and benefits Chair: Mr Albert Poon Co-Chair: Dr Noboru Takamura Speaker: Dr Larry Kelly, Therapeutic Goods Administration, Australia
15:45–16:30	Coffee break and poster session B (continued)		
16:30–17:30	Assessment and management: a continuous process		
	Track 1 (HTR): The need for adverse event reporting and post-market surveillance [French interpretation] Chair: Dr Isabelle Demade Co-Chair: Ms Irena Prat Speaker: Dr Giuseppe Ruocco, Ministry of Health, Italy	Track 2 (HTM): Healthcare technology operation: training, safe use, and maintenance [Spanish interpretation] Chair: Mr Ismael Cordero Co-Chair: Ms Jennifer Barragan Speaker: Mr Mladen Poluta, University of Cape Town, South Africa	Track 3 (HTA): The need for continuous HTA in developing countries and the role of international organizations Chair: Dr Chris Henshall Co-Chair: Dr Geeta Mehta Speaker: Dr Yot Teerawattanon, Health Intervention and Technology Assessment Program, Thailand

Poster session day 2—Friday, 10 September 2010

No.	Title	Author	Organization	Country
APPROPRIATE TECHNOLOGIES				
B01	A measuring system to examine wheelchair cushion function in high humidity conditions	Hirose, H, and Toyama, S	National Rehabilitation Center for Persons with Disabilities	Japan
		Evan Call	EC services	Japan
B02	Appropriate and innovative medical devices — local solutions	Olujobi Awojobi	Awojobi Clinic Eruwa/Bells University of Technology	Nigeria
B03	Non-instrumented nucleic acid amplification (NINA): instrument-free molecular diagnostics for low-resource settings	LaBarre PD, Gerlach J, Wilmoth J, Beddoe A, Singleton JL, Hawkins KR, and Weigl BH.	PATH, Seattle, Washington	United States of America
B04	In search of sustainable, impactful and appropriate technologies: An evidence based initiative from the University of Michigan	Kathleen Sienko ¹ , Tejkaran S. Gill ² , Amir S. Sarvestani ⁴	University of Michigan Center for Global Health and College of Engineering	United States of America
		Sofia D Merajver ²	University of Michigan Center for Global Health and Medical School	United States of America
REGULATION OF MEDICAL DEVICES				
B05	Human factors requirements for premarket medical device submissions	Anjum Chagpar	Healthcare Human Factors, University Health Network (Toronto)	Canada
B06	A wholesome meaning of “shared responsibility” in medical device regulations	Michael Cheng		Canada
B07	Establishing an administrative control system for medical devices in Hong Kong	S Y Lam, Teresa Li	Department of Health, the Government of the Hong Kong Special Administrative Region, Hong Kong	China
B08	Challenges of the actual era in the regulations for medical devices in Cuba	Dulce Maria Martinez Pereira	Centro de Control Estatal de Equipos Medicos, Ministerio de Salud Publica, Cuba	Cuba
B09	The new Food and Drug Administration (FDA) of the Republic of the Philippines	Agnette de Perio Peralta	Bureau of Health Devices and Technology, FDA, Department of Health, Philippines	Philippines
HEALTH TECHNOLOGY ASSESSMENT				
B10	Performance of four rapid diagnostic tests for the diagnosis of falciparum and non-falciparum malaria in endemic areas of Gondar region, Northern Ethiopia	Aysheshm Kassahun	Department of Microbiology, Immunology and Parasitology, Addis Ababa University, Medical Faculty, Ethiopia	Ethiopia
B11	The role of Health Technology Assessment in the evaluation of co-dependent technologies and genetic testing	Ray Kirk	Director and Associate Professor in Health Sciences, Health Sciences Centre, University of Canterbury, New Zealand	New Zealand
B12	The influence of HTA agency: medical device usage over time after guidance	Raquel Cabo, Simon Eggington, Peter Lynch, and Abdallah Abouihia	London School of Economics and Political Science	United Kingdom
eHEALTH				
B13	Santa Catarina State Telemedicine Network — a critical description of a telehealth web-based initiative in southern Brazil	Roberto Eduardo Hess de Souza, Luiz Felipe de S. Nobre and Aldo von Wangenheim	State Secretary of Health, Santa Catarina State	Brazil
B14	Frameworks for addressing the increased complexity, networking and interoperability of medical devices [draft title]	Fred Hosea	Kaiser Permanente	United States of America
HEALTH TECHNOLOGY MANAGEMENT				
B15	Progressing Healthcare Technology Management in Ethiopia [draft title]	Mulugeta Mideksa	Ethiopian Federal Ministry of Health — Black Lion Specialized Hospital (Johns Hopkins University — TSEHAI), Ethiopia	Ethiopia
B16	Down time measurements of medical equipment	Walid Tarawneh	Ministry of Health, Jordan	Jordan
B17	HTM & CE: a strategic model in Peru — building and strengthening capacities for healthcare technology management & clinical engineering aimed at developing countries	Luis Vilcahuaman and Rossana Rivas	Health Technopole CENGETS - Pontifical Catholic University of Peru	Peru
B18	Performance indicators and benchmarking: results from a comprehensive medical device audit using DEA (Data Envelopment Analysis).	Mladen Poluta	University of Cape Town	South Africa
B19	Medical devices database — a needs finding tool	Fernando Monteiro Pacheco, Mario Coronado and Zheng Wang	Diagnostic Imaging and Medical Devices, Department of Essential Health Technologies, World Health Organization	Switzerland
B20	Integrated healthcare technology management and inventory	Rob Parsons	Health Partners International	United Kingdom
PROFESSIONAL ORGANIZATIONS				
B22	The role of the International Organization for Medical Physics in relation to medical devices	Peter Smith	International Organization for Medical Physics (IOMP)	United Kingdom
B23	The role of the medical physicist in relation to medical devices	Peter Smith	International Organization for Medical Physics (IOMP)	United Kingdom

Superscript numbers indicate order of authorship (if no number indicated then order is from left to right, top to bottom)

Dr Chiaki Mukai

Dr Chiaki Mukai is a Japanese astronaut and head of the Space Biomedical Research Office in the Japan Aerospace Exploration Agency (JAXA). She specializes as a cardio-vascular surgeon and physiologist, and is also a board certified surgeon in the Japan Surgical Society. She flew on US Space Shuttles in 1994 and 1998 conducting various experiments using space microgravity environment in life science and microgravity science. Her work experience includes being a visiting scientist to NASA's Johnson Space Centre and visiting professor of the Department of Surgery in the Keio University School of Medicine. More recently she was appointed by WMO as a member of the High-Level Taskforce (HLT) on the Global Framework for Climate Services. In this capacity, she contributes to the research of climate change on human welfare.



Ms Renata Bushko

Ms Renata Bushko is director and founder of the Future of Health Technology Institute, a health technology think-tank dedicated to defining the health technology agenda for the 21st century. Ms Bushko, after serving on boards of many national US healthcare organizations, international health standards organizations and 15 years as an executive in computer industry, founded Future of Health Technology Institute in 1996. Since then she has chaired 15 Future of Health Technology Summits. These annual summits engage leading minds from the technology and healthcare fields in envisioning the future of technology for global healthcare to save lives, reduce suffering and extend human potential.



Ms Bushko is also the editor of Future of Health Technology book series. She holds a Master of Science Degree in Electrical Engineering and Computer Science with specialization in intelligent systems from the Massachusetts Institute of Technology (MIT) and a BA in Computer Science from Smith College and University of Warsaw.

Dr Oluyombo Awojobi

Dr Oluyombo Awojobi obtained his Doctor of Medicine Degree from the University College Hospital in Ibadan, Nigeria, in 1975, where he also earned the Adeola Odutola prize for the best final-year medical student. He worked as a surgeon at the District Hospital Eruwa for three years before setting up his own rural clinic in Eruwa in 1986. Other awards Dr Awojobi has received include the Oyo State Merit Award for rural medical practice, the National Agency for Science and Engineering Infrastructure Prize and the College of Medicine, University of Ibadan Award for his contribution to the Ibarapa Community Health Project. In 2000, the King of Eruwa offered Dr Awojobi the chieftaincy title of Baasegun of Eruwa.



Dr Kristian Olson

Dr Kristian Olson is a clinician educator at the Massachusetts General Hospital. He is the program leader of CIMIT's Global Health Initiative directed at developing catalyst health technologies for low-income countries. He attended medical school at Vanderbilt University and was a Fulbright Scholar to Australia where he completed a masters of public health. Dr Olson was the first Durant Fellow in Refugee Medicine during which he obtained a Diploma in Tropical Medicine in London before spending 2003 working in refugee camps along the Thai-Burmese Border. He has worked in Darfur, Indonesia, Cambodia, and Ethiopia. In 2009, he was named to the Scientific American Top 10 Honour Roll as an individual who has demonstrated leadership in applying new technologies and biomedical discoveries for the benefit of humanity.



Mr Paul LaBarre

Mr Paul LaBarre is a technical officer and portfolio manager with PATH's Technology Solutions Global Program. He leads several multidisciplinary teams within PATH's Health Innovation Portfolio and his primary focus is integration of novel technologies into the areas of vaccine delivery, maternal health, and diagnostics for low-resource settings. In addition, Mr LaBarre is a senior advisor, providing technical and regulatory advice to multiple product development activities. He is experienced in new product



development, field and laboratory evaluations, private- and public-sector collaboration, technology transfer, and standards development. Mr LaBarre was awarded a Regulatory Affairs Certificate from the Regulatory Affairs Professional Society. He received a Master's Degree in Medical Engineering from the University of Washington and a Bachelor of Science Degree in Mechanical Engineering from Northwestern University.

Dr Peter A Singer

Dr Peter A Singer is professor of medicine, Sun Life Financial chair in bioethics, CEO of Grand Challenges Canada and director at the McLaughlin-Rotman Centre for Global Health for the University Health Network and University of Toronto. Dr Singer's research is on life sciences and the developing world – how technologies make the transition from “lab to village.” In 2007, Dr Singer received the Michael Smith Prize as Canada's Health Research of the Year in Population Health and Health Services. He is the foreign secretary of the Canadian Academy of Health Sciences, and a fellow of the Royal Society of Canada, the US Institute of Medicine of the National Academies, and TWAS (The Academy of Sciences for the Developing World). He has published over 270 research articles, received over \$50 million in research grants, and trained over 70 students. Dr Singer is a member of the Scientific Advisory Board of the Bill & Melinda Gates Foundation Grand Challenges for Global Health Initiative, and has advised the UN Secretary General's Office, the Government of Canada, several African governments, and Pepsico Inc. on issues related to global health. He studied internal medicine at the University of Toronto, medical ethics at the University of Chicago, public health at Yale University, and management at Harvard Business School. He is a former chairman of Branksome Hall School.



Dr Laura Sampietro-Colom

Dr Laura Sampietro-Colom earned her Doctorate in Medicine and Surgery from the Autonomous University of Barcelona; she is a specialist in Public Health and Master in Science of Public Health (Emory University, Atlanta, USA).

Dr Sampietro-Colom was one of the founders of the Catalan Agency for Health Technology Assessment, being now a research associate. She is a founding board member of the International Society for Health Technology Assessment (HTAi) and has been a Director of HTAi, including three years as the secretary of the Executive Committee and two years as vice-president. Dr Sampietro-Colom was partly responsible for the development of the first international project undertaken by the International Network of Agencies for Health Technology Assessment (INAHTA), and has collaborated actively in several other HTA European Projects. She has been temporary advisor of United Nations Agencies (WHO, PAHO, World Bank) and serves on the editorial board of the International Journal of technology Assessment in Health Care. She has been the director of Projects, Evaluation and Information Systems at the Catalan Institute of Health, the main provider of public health care services in Catalonia and the head of the Strategic Planning Unit for health care organization (Planning and Evaluation Directorate) of the Catalan Ministry of Health. Her work has focused on the evaluation of health care technologies, the identification, management and transference of information to improve the decision-making process, and on evidence-based planning healthcare services.



Dr Sampietro-Colom is the deputy director for Innovation at the “Hospital Clinic” in Barcelona.

Dr Ruth Lopert

Dr Ruth Lopert is principal medical adviser at the Australian Therapeutic Goods Administration. Ruth joined the TGA in 2008 on return from eighteen months in the US as a harkness fellow in Health Policy and visiting professor at George Washington University. Prior to her US stay Ruth established and directed the Pharmaceutical Policy Taskforce within the Australian Department of Health and Ageing, having joined the Department in 2002 as senior medical adviser in the Pharmaceutical Benefits Branch, providing clinical and policy advice to the staff and acting as an adviser to the Pharmaceutical Benefits Advisory Committee. Ruth is a member of the WHO Expert Advisory Panel on Drug Policies and Management, and holds a conjoint appointment at the Australian National University Medical School.



Dr David Porter

Dr David Porter joined the Scottish health service as a research physicist in 1970 on a trial of fast neutron radiotherapy. In 1975, he took responsibility for setting up a technical support service for instrumentation in 26 major hospital laboratories throughout the West of Scotland.

During 1978-85 he was seconded to the Egyptian Ministry of Health leading a team of UK medical physicists and engineers training manpower and developing services for the management and maintenance of hospital equipment.

On return home in 1985, he was responsible for setting up and managing an agency for providing development assistance in physics and bio-engineering services for developing countries. Long-term programmes were established with hospital equipment maintenance organizations in Bahrain, Ghana and Pakistan.

He has also undertaken numerous missions in more than 30 other countries world-wide, notably throughout India over a 17-year period with the World Bank and throughout the Middle-East, sub-Saharan Africa, China & Thailand with numerous international and bilateral donors.



Dr Brendon Kearney

Dr Brendon Kearney is the chair of the Health Policy Advisory Committee on Technology in Australia. This committee oversees the assessment of new and emerging technologies in health care for Australia. He was deputy chairman of the Medical Services Advisory Committee for 10 years and was chairman of the National Funded Centre Programme. He is a clinician/manager in the Australian healthcare system.



Ms Yuwadee Patanawong

Ms Yuwadee Patanawong received her Bachelor Degree in Pharmacy with Honors from Chulalongkorn University and her Law Degree from Thammasart University, Thailand. She also received her Masters Degree in Medical and Pharmaceutical Research with great distinction from the University of Brussels, Belgium as well as a Masters Degree in Political Science from Thammasart University, Thailand.

In 2003 she began working as the director of the Medical Device Control Division, Food and Drug Administration for the Ministry of Public Health in Thailand; she was previously the director of the Drug Control Division. She has experience in medical device and drug control systems especially in pre-marketing approval, good clinical practice and good manufacturing practice. She has participated as a head delegate in the international harmonization of medical devices with the ASEAN (ACCSQ-MDPWG) and Asian (AHWP).



Mrs María Luisa González Rétiz

Mrs María Luisa González Rétiz is a biomedical engineer with 17 years of experience in the clinical engineering field both private and public. She has a Masters Degree in Business Administration. During the last five years of her professional performance, she has been a member of the National Center for Health Technology Excellence (CENETEC), an institution of the Mexican Ministry of Health, first as Medical Devices Planning Director and since October 2008 as CENETEC's general director. Her main work areas are: Telehealth, Clinical Practice Guidelines as part of the Health Technology Assessment, and Health Technology Management, besides the roll of CENETEC as WHO / PAHO Collaborating Center.



Mr Sam SB Wanda

Mr Sam SB Wanda holds a Master of Science in Construction Engineering from Loughborough University of Technology, UK and a Bachelor of Science in Civil Engineering from Makerere University, Uganda. His experience covers construction engineering, project development and management, rehabilitation and construction of buildings, procurement of works. Since February 1999 he has been the assistant commissioner of Health Services (Health Infrastructure) for the Ministry of Health in Kampala, Uganda. In this role he manages the Infrastructure Division and offers expert advice on all matters relating to infrastructure development and management in the Ministry of Health. Activities that he has been involved with include the rehabilitation and construction of hospitals and health centres (including re-equipping) owned by the Central Government and provided technical support to the districts; general administration of the Health Infrastructure Division for technical, financial and staff matters; manages the team of engineers that carries out the development of specifications for all engineering requirements and is the focal person for medical devices in the Ministry of Health.



Dr Kalipso Chalkidou

Dr Kalipso Chalkidou is the director of NICE's International Programme, advising governments overseas on building technical and institutional capacity for using evidence to inform health policy. She is interested in how local information, local expertise and local institutions can drive scientific and legitimate healthcare resource allocation decisions. She is involved in the Chinese rural health reform and also in national health reform projects in Georgia, Turkey, the Middle East and Latin America. She holds a doctorate on the molecular biology of prostate cancer from the University of Newcastle (UK), an MD (Hons) from the University of Athens and is an honorary lecturer at the London School of Hygiene and Tropical Medicine (UK), a senior advisor on international policy at the Center for Medical Technology Policy (USA) and visiting faculty at the Johns Hopkins Berman Institute for Bioethics.



Dr Larry Kelly

Dr Larry Kelly has worked with Australia's national regulator for therapeutic goods, the Therapeutic Goods Administration (TGA), since 1987. He has held a number of leadership roles in the TGA including the Head of the Office of Laboratories and Scientific Services and Head of the Office of Devices, Blood and Tissues.

Dr Kelly is currently the Group Coordinator of the Monitoring and Compliance Group and is responsible for managing TGA's post-market programs which include drugs and devices safety, manufacturer inspections, laboratory testing programs, and advertising and recalls. Dr Kelly is currently the chair of the Global Harmonization Task Force.

Mr Mladen Poluta

Mr Mladen Poluta is director of the Healthcare Technology Management (HTM) Programme at the University of Cape Town (UCT), South Africa. After graduating BSc(Eng) he worked in industry and thereafter in a public sector tertiary hospital. He joined the Department of Biomedical Engineering at UCT in 1987. His current interests include healthcare technology innovation for resource-poor environments; integrated healthcare resource management; HTM decision-support systems; competency profiling; and performance- and efficiency benchmarking in healthcare. Mr Poluta has served on the councils and advisory committees of – and consultant for – a number of international, regional and national organizations. He is former co-director of the WHO/MRC Collaborating Centre for Essential Technologies in Health and serves on the steering committee of the MD2M Centre for Medical Device Innovation.



Dr Yot Teerawattananon

Dr Yot Teerawattananon is leader and founder of the Health Intervention and Technology Assessment Program (HITAP) which is a semi-autonomous research institute under the Bureau of Policy and Strategy, Office of the Permanent Secretary of the Ministry of Public Health in Thailand. He previously served as a director of Pong Hospital in northern Thailand where he developed an intense interest in Health Economics. Since 2000 he has worked as a researcher at the International Health Policy Program (IHPP), where he gained experience in health systems and policy research at the national level. He received the World Health Organization Fellowship Award to study in the UK in 2006 where he completed his Ph.D. in Health Economics. He recently acquired more than \$5 million US to manage the first health technology assessment institute in Thailand. He has more than 30 international publications and also served as editor and associate editor of national and international journals.



Programme day 3—Saturday, 11 September 2010

ATHENEE CRYSTAL BALLROOM

08:30–10:05	Improving access, quality, and affordability of medical devices through... [French & Spanish interpretation] Chair: Ministry of Health, TBD Co-Chair: Dr Adham Ismail <i>Academia</i> Dr Herbert Voigt, International Federation for Medical and Biological Engineering <i>Professional organizations</i> Dr Peter H S Smith, International Organisation for Medical Physics <i>Technology transfer</i> Dr Rosanna Peeling, London School of Hygiene & Tropical Medicine, United Kingdom <i>Medical technology industry</i> Ms Anne Trimmer, Global Medical Technology Alliance Q&A
10:05–10:30	Ethical practice [French & Spanish interpretation] Mr Alexander Capron, University of Southern California Q&A
10:15–11:00	Rapporteur working session
10:30–11:15	Coffee break
11:15–12:00	Closing session [French & Spanish interpretation] Chair: Dr Steffen Groth, WHO <i>Day 1</i> — Dr Geeta Mehta, SEARO, WHO <i>Day 2</i> — Mr Pablo Jiménez, PAHO, WHO <i>Day 3</i> — Mr Adham Ismail, EMRO, WHO
12:00–12:15	<i>Way forward</i> Dr Carissa Etienne, WHO
12:15–12:30	<i>Closing message</i> Dr Suwit Wibulpolprasert, Ministry of Health, Thailand
12:30–14:00	Closing lunch

POST CONFERENCE WORKSHOPS & MEETINGS

	Technical workshops in English (registration required)			
14:00–16:00	Track 1: Health Technology Assessment Room A	Track 2: Medical Devices Management Room B	Track 3: Medical Devices Regulation Room C	Track 4: e-Health Room D
16:00–17:00	Meeting of the Global Medical Technology Alliance, Room A			

Dr Herbert Voigt

Dr Herbert Voigt, a professor of biomedical engineering at Boston University, is currently president of the International Federation for Medical and Biological Engineering (2009-2012). He has served as president of the American Institute for Medical and Biological Engineering (2006-2007), the Biomedical Engineering Society (1999) and Alpha Eta Mu Beta (the National Biomedical Engineering Honor Society, 2002-2008). Professor Voigt received his B.E. in electrical engineering from the City College of New York (CCNY) in 1974 and his Ph.D. in biomedical engineering from Johns Hopkins University in 1979. He spent a post-doctoral year at Hopkins before moving to Boston. He received an Alumni Career Achievement Award from CCNY in 1994 and he was elected to the Johns Hopkins Society of Scholars in 2003. His research interests include that neural circuitry of the cochlear nucleus.

**Dr Peter H S Smith**

Dr Peter H S Smith is the immediate past secretary-general of the International Organization for Medical Physics (IOMP) and is a retired clinical scientist (medical physics). Prior to retirement he was the chief executive of the Northern Ireland Medical Physics Agency and visiting professor at the University of Ulster, UK. Dr Smith has long experience in working, both as a professional scientist and as a manager, working in multidisciplinary environments in health services and being involved in national and international organizations.

**Ms Anne Trimmer**

Ms Anne Trimmer is the chief executive officer of the Medical Technology Association of Australia, a member association of the Global Medical Technology Alliance. Prior to joining MTAA, Anne had an extensive career in the legal profession, practising law as a commercial partner of a major Australian law firm. In her role as CEO, Anne represents the Australian medical technology industry on the Steering Committee of the Global Harmonisation Task Force, and is currently vice chair. Anne has held several leadership positions in professional and educational bodies, including a period as president of the Law Council of Australia, Council Member of the International Bar Association, deputy chancellor of the University of Canberra and chair of the Australian Government's Advisory Council on Intellectual Property.

**Mr Alexander Capron**

Mr Alexander Capron is university professor at the University of Southern California where he occupies the Scott H. Bice Chair in Healthcare Law, Policy and Ethics in the Gould School of Law, is a professor of Law and Medicine at the Keck School of Medicine, and is co-director of the Pacific Center for Health Policy and Ethics. A graduate of Swarthmore College and Yale Law School, he has previously taught at Georgetown, Pennsylvania, and Yale Universities. He was the executive director of the President's Commission for the Study of Ethical Problems in Medicine and Biomedical and Behavioral Research (1979-83), and the first director of Ethics, Trade, Human Rights and Health Law at the World Health Organization (2002-06). He has served as president of the International Association of Bioethics and of the American Society of Law, Medicine and Ethics, and chair of the Biomedical Ethics Advisory Committee of the U.S. Congress.



Supplementary information overview

Included in this programme are two CDs. The first CD, *WHO Health Technologies e-documentation Centre: Aide Mémoires, Best Practices, Flyers, Guidelines, Manuals, Policies, Questionnaires, Reports, Resolutions and Training Material* from the Essential Health Technologies Department, can be installed onto a computer and contains more than 300 documents, publications and other resources in various languages, selected from a wide range of WHO technical information materials.

The second CD, *WHO Consultation Papers*, includes WHO produced documents for your reference. Feel free to read them and provide feedback during the relevant session. Some documents are already published, while others are in draft form. Those included in draft form have a publication deadline of January 2011. If you have any specific feedback to these documents, please send an email to velazquezberumena@who.int and barraganj@who.int before 29 October 2010.

Contents of WHO Consultation Papers & Additional Information:

A. Landscape Analysis

A document developed to identify factors that influence the likelihood of technology corporations developing or adapting technologies for global health purposes using their own funds. June 2009.

B. Priority Medical Device Project

In order to help move forward the agenda to improve global access to appropriate medical devices, the Priority Medical Devices (PMD) project, convened by WHO, developed a health based approach to medical devices. The first step in this approach was to identify the most important health problems: on a global level this means using the Global Burden of Diseases and/or disease risk factor estimates. The second step was to identify how health problems are best managed by referring to relevant clinical guidelines. And the third and final step was to link the results of the first two steps to produce a list of key medical devices that are needed for the management of the identified highest-burden diseases, at a given health care level and in a given context. Included are 8 background papers, the methodology, literature review and the final report:

- 1 Medical devices: managing the mismatch. An outcome of the Priority Medical Devices project
- 2 Background Paper 1
A stepwise approach to identify gaps in medical devices (availability matrix and survey methodology)
- 3 Background Paper 2
Building bridges between diseases, disabilities and assistive devices: linking the GBD, ICF and ISO 9999
- 4 Background Paper 3
Clinical evidence for medical devices: Regulatory processes focusing on Europe and the United States of America
- 5 Background Paper 4
Increasing complexity of medical technology and consequences for training and outcome of care
- 6 Background Paper 5
Context dependency of medical devices
- 7 Background Paper 6
Barriers to innovation in the field of medical devices
- 8 Background Paper 7
Trends in medical technology and expected impact on public health
- 9 Background Paper 8
Future public health needs: commonalities and differences between high- and low-resource settings
- 10 Methodology used in the Priority Medical Devices project

C. Technical Advisory Group on Health Technology Documents

As part of the Global Initiative on Health Technologies, the WHO brought together international experts and country leaders to challenge them to establish a framework for the development of national health technology programmes that will impact the burden of disease and ensure effective use of resources. Included here are a number of documents resulting from meetings and discussions held over the past 17 months that will serve as reference documents for Member States. Two documents (Donations and Regulations) have been previously published but the work of this group will result in updated and more relevant documents.

- 1 Guidelines for Health Care Equipment Donations (2000)
- 2 Guidelines for Health Care Equipment Donations (2010 Revision)
- 3 Introduction to Medical Device Procurement
- 4 Medical Device Regulations Global Overview and Guiding Principles (2003)
- 5 The Advancement of Health Technology Assessment (HTA) in Developing Countries
- 6 Medical device lists per health facility

D. WHO Baseline Country Survey

A baseline country survey on medical devices was launched on February 10th 2010. The survey was carried out by the Diagnostic Imaging and Medical Devices Unit within the Department of Essential Health Technologies. This survey was sent to the Ministries of Health of all Member States, Associate Members and Palestine representing a total of 196 participating countries. The baseline country survey on medical devices was designed to determine the availability of policies, guidelines, standards and services for the assessment, management and regulation of health technology in Member States and Associate Members. It is WHO's intention to determine the key areas for the development of health technology programmes in regions and countries which require support, as well as to share knowledge and information among the participating countries.

Countries will benefit from receiving comparable information from all other Member States and Associate Members. The information has been compiled into a comprehensive database, facilitating networking and decision making at all levels: national, regional and global. As of 31 August, 138 submissions have been received out of a total of 196 Member States and Associate Members. There has been significant interest in the survey and we expect to receive the rest of the submissions during the coming weeks.

Included is the original survey and the list of health technology focal points.

E. WHO Call for Innovative Technologies

The call for innovative technologies aimed at identifying and evaluating innovative medical devices, either existing or under development, which address global health concerns and which are likely to be accessible, appropriate and affordable for use in low- and middle-income countries. Included is the brochure for the Call and the resulting Selected Technologies.

F. WHO Resolutions Relevant to Health Technologies

WHA 60.29 Health technologies

The first resolution on health technologies by the World Health Assembly was passed in May 2007 (WHA60.29). Through the passing of this resolution, delegations from Member States acknowledged the importance of health technologies for the achievement of health-related development goals, urged expansion of expertise in the field of health technologies in particular medical devices and requested WHO to take specific actions to support Member States.

WHA 62.12 Primary health care, including health system strengthening

WHA 62.16 Global strategy and plan of action on public health, innovation and intellectual property

Acknowledgments

The World Health Organization, would like to thank the following for their support and contributions to the First Global Forum on Medical Devices:

The Ministry of Public Health, Thailand



The Ministry of Health, Welfare and Sport, Netherlands



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The members of the Steering Committee, the International Organizing Committee, the Poster Review Committee and the Local Organizing Committee.

The Diagnostic Imaging and Medical Devices Unit of the Essential Health Technologies Department at the World Health Organization would like to extend a very special thank you to the 2010 Summer Interns and WHO staff for their dedication and support, in making the First Global Forum on Medical Devices a reality:

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