



Innovations in Hand Hygiene Promotion Worldwide

Professor Didier Pittet, MD, MS,
Former Director, Infection Control Programme
& WHO Collaborating Centre on Patient Safety
University of Geneva Hospitals and Faculty of Medicine,
Geneva, Switzerland



**UNIVERSITÉ
DE GENÈVE**
FACULTÉ DE MÉDECINE

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10

Rio de Janeiro, Brazil, October 31-November 2, 2022

Outline

- The Hand Hygiene Excellence Award
- Turn Africa Orange
- The Global Hand Sanitizing Relay
- Train-the-Trainers (TTT) in Hand Hygiene

The Hand Hygiene Excellence Award



AWARD FOR HAND HYGIENE EXCELLENCE

- Awarding **active and engaged IPC professionals**
- **Sharing expertise**
- Identifying **role models** & encouraging **leadership**



National leadership

Hand hygiene excellence award winner: spreading the experience countrywide in Romania

A Moldovan^{1*}, M Capilna², I Cotoara¹, B Moldovan³

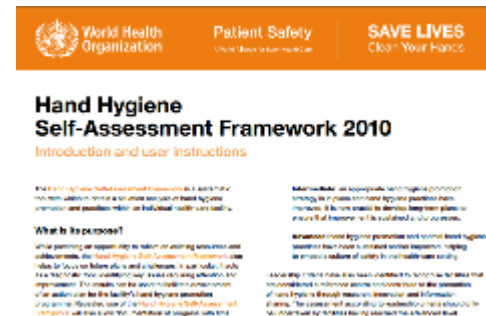
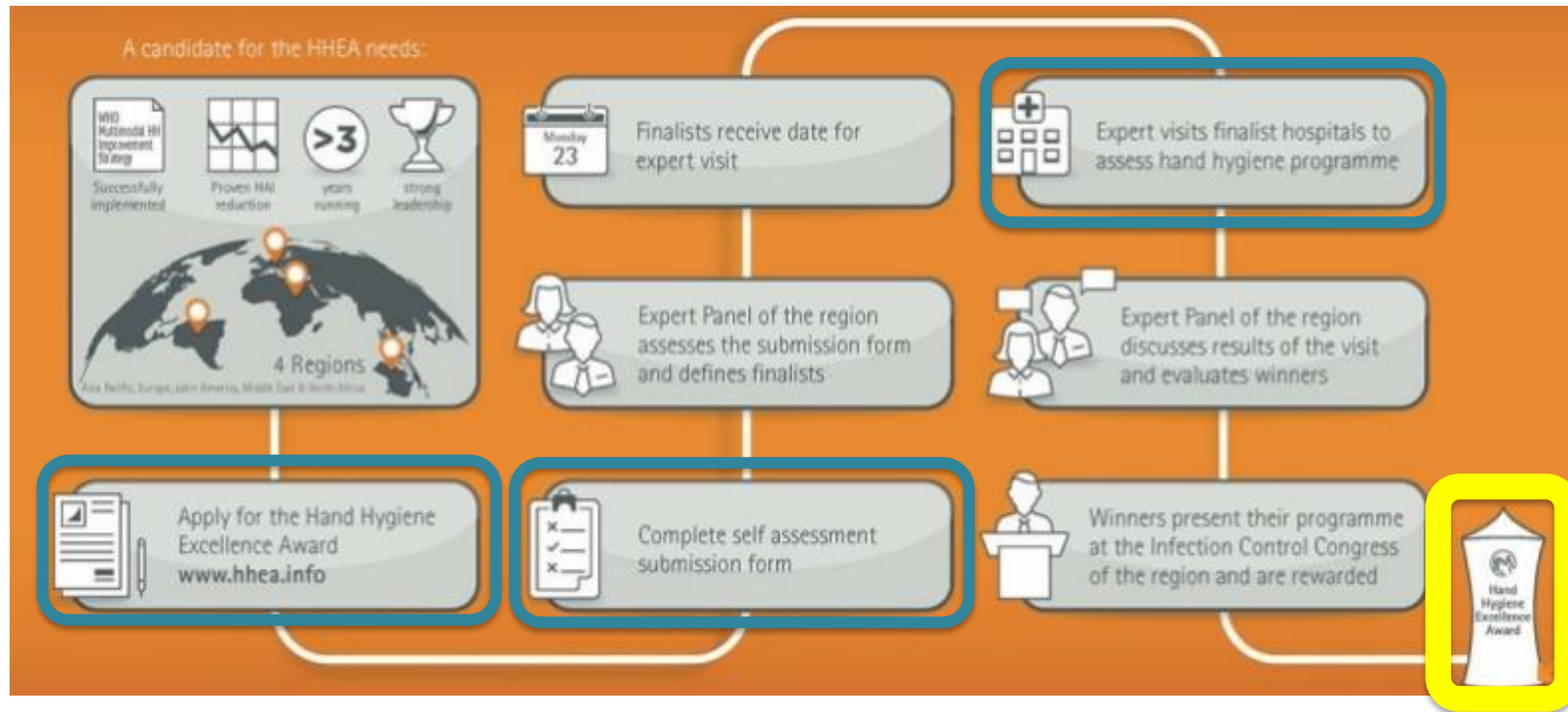
“As HHEA winner, our institution contributes to spread infection control in Romania. Our experience verifies the idea of considering hand hygiene as the entrance door to infection control.”

WHO CAN APPLY?

1. Successfully applied the WHO multimodal strategy
2. Show decreasing HAI rates
3. At least 3 years of sustainability
4. Strong leadership



HOW TO APPLY?





HAND HYGIENE EXCELLENCE AWARD TAKING THE WORLD...



Asia Pacific
since 2010



Europe
since 2012



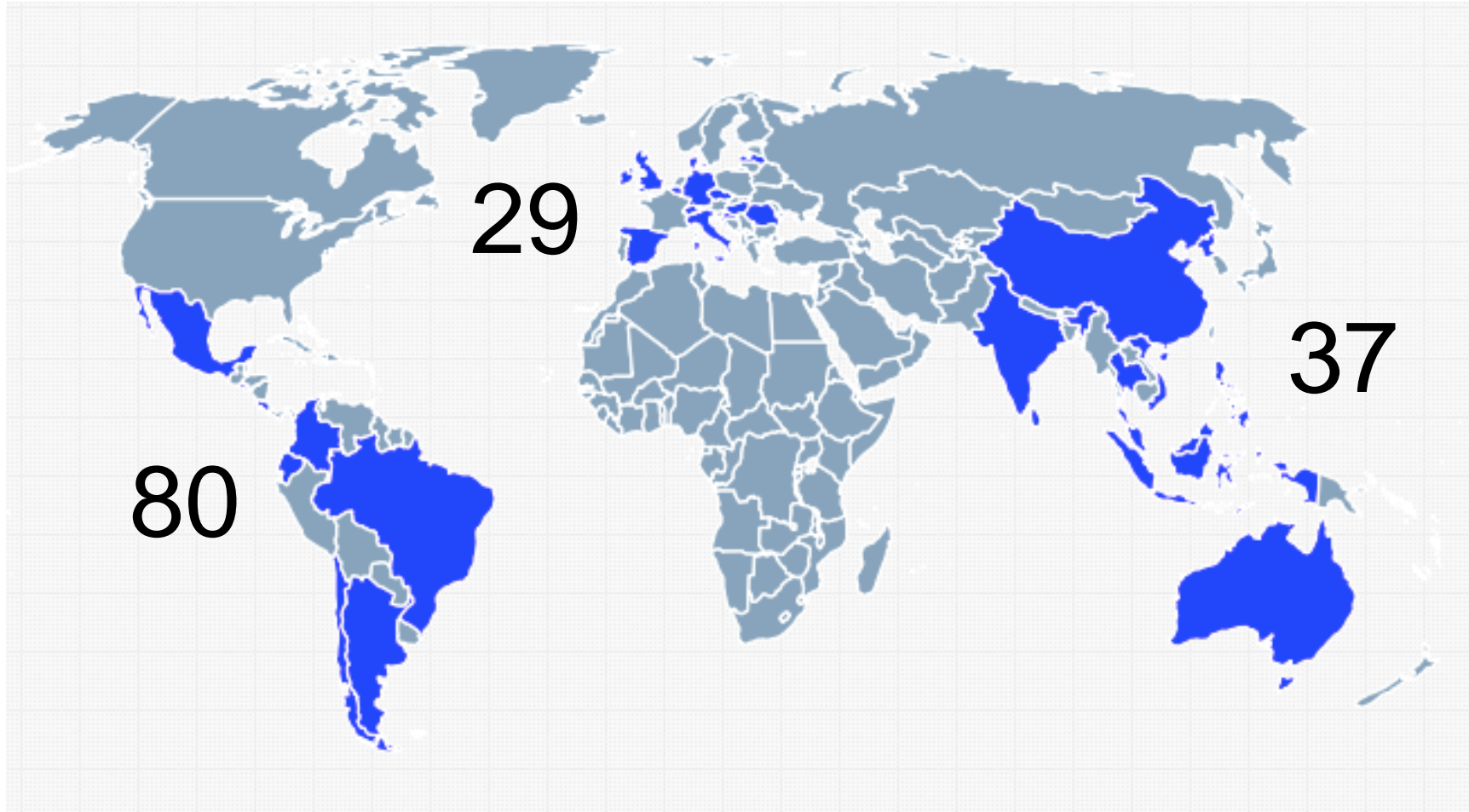
Latin America
since 2014



In Middle East and North Africa in 2017

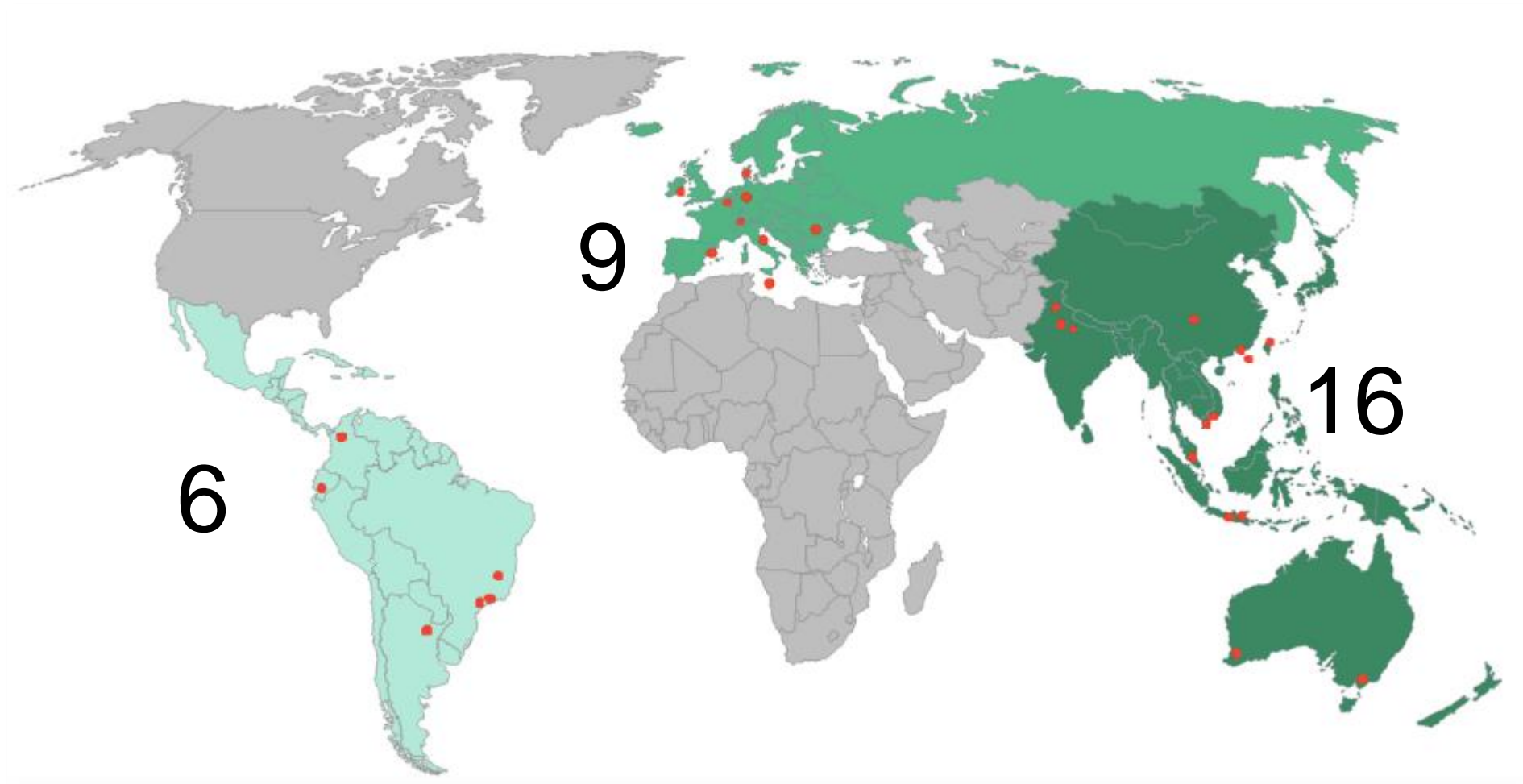


HHEA APPLICATIONS



146 hospitals from 35 countries

HAND HYGIENE EXCELLENCE AWARDS



31 winners from 22 countries



16 winners

Winners 2015

Benh vien Dai Hoc Y Duoc
Hồ Chí Minh City, Vietnam
Fortis Hospital, Mohali
Punjab, India
RS Premier Jatinegara
Jakarta, Indonesia
Jai Prakash Narayan Apex
Trauma Center, AIIMS
New Delhi, India

Winners 2014

Prince of Wales Hospital
Shatin, Hong Kong
Hung Vuong Hospital
Ho Chi Minh City, Vietnam

Winners 2013

Assunta Hospital
Ehsan, Malaysia
Siloam Hospitals Surabaya
Surabaya, Indonesia

Winners 2012

Bethesda Hospital
Claremont, Australia
West China Hospital
of Sichuan University
Chengdu, China
Cho Ray Hospital
Ho Chi Minh City, Vietnam
Hong Kong Baptist Hospital
Kowloon, Hong Kong

Winners 2011

Dr Sardjito General Hospital
Yogyakarta, Indonesia
National Taiwan
University Hospital
Taipei City, Taiwan

Winners 2010

Artemis Health Institute
Gurgaon, India
Monash Medical Centre
Clayton, Australia

Winners 2017

Hôpital neuchâtelois
(Innovation award)
Neuchâtel, Switzerland

Nordsjællands Hospital
Hillerød, Denmark

AZ Jan Palfijn Gent
Gent, Belgium

Winners 2015

Mater Dei Hospital
Msida, Malta

Parc de Salut Mar
Barcelona, Spain

Winners 2014

St. Elisabeth-Hospital Beckum
Beckum, Germany

AUSL Romagna
Rimini, Italy

Winners 2013

Mater Private Hospital
Dublin, Ireland

Spitalul Sf. Constantin
Braşov, România

9 winners





6 winners

Winners 2016

Hospital Alemão Oswaldo Cruz

São Paulo, Brazil

Hospital Escuela Gral. José Francisco de San Martín

Corrientes, Argentina

Hospital de Niños Roberto Gilbert

Guayaquil, Ecuador

Hospital General de Medellin – Luz Castro de Gutierrez E.S.E

Medellin, Colombia

Winners 2014

Hospital e Maternidade Santa Joana

São Paulo, Brazil

Hospital Mater Dei

Minas Gerais, Brazil

The Hand Hygiene Excellence Award *Video*

Lessons learned from HHEA winners....

- Stay focused
- Wide stakeholder involvement
- Engagement and ownership
- Ability to customize interventions to the local situation and culture
- Continuous feedback to all stakeholders
- Visibility and support in the clinical areas

Be the next
hand hygiene
excellence award
hospital!





n Africa in 2018



Let's ... **Turn Africa Orange**

www.tinyurl.com/AfricaOrange



Let's ... **Turn Africa Orange**

www.tinyurl.com/AfricaOrange



Let's ... **Turn Africa Orange**

www.tinyurl.com/AfricaOrange



Let's ... **Turn Africa Orange**
www.tinyurl.com/AfricaOrange



Turn Africa Orange Video



handhygienerelay@cleanhandssavelives.org

The 1st Hand Sanitizing Relay



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Brief report

Impact of the first hand sanitizing relay world record on compliance with hand hygiene in a hospital



Wing Hong Seto MD^a, Benjamin J. Cowling BSc, PhD^{b,*}, Christina W.Y. Cheung RN^c,
Cindy Y.Y. Wong RN^c, Patricia T.Y. Ching RN^c, Didier Pittet MD, MS^d,
Raymond C.I. Chen MD^e

- Hong Kong Baptist Hospital, May 2014
- Hand hygiene compliance increased from 72% (95% CI, 70%-74%) in 2013 to 83% (95% CI, 83%-87%) in June-July 2014

The 1st Hand Sanitizing Relay

Guinness World Record



- The HSRelay challenge
- a **sequential chain** of HH actions
- WHO “How to Handrub” technique
- As many HCWs as possible during a single event.



**Record of 277
HCWs**

Hong Kong Hand Sanitizing Relay

WHO Hand Sanitizing Relay



centre Publications Countries Programmes Governance About WHO

Clean Care is Safer Care

5 May 2015

A year of activities in support of SAVE LIVES: Clean Your Hands 5 May and ten years of the WHO Clean Care is Safer Care program 2005-2015

Clean hands across the world – join us!

Hand Sanitizing Relays – 5 May 2015

On 5 May imagine the world uniting – thousands of health-care facilities all individually trying to **break a Guinness World Record** and highlighting the importance of hand hygiene for patient and health worker safety.

- Launched by the WHO CC in April 2015
- Countries called to arrange a HSRelay as part of their 5th of May promotional activities
 - I. To perform a HSRelay
 - II. To set a new Guinness World Record
 - III. To measure hand hygiene compliance before-and-after the event

- **>15,000**
Health care workers

133
Health care facilities

- **43**
Countries



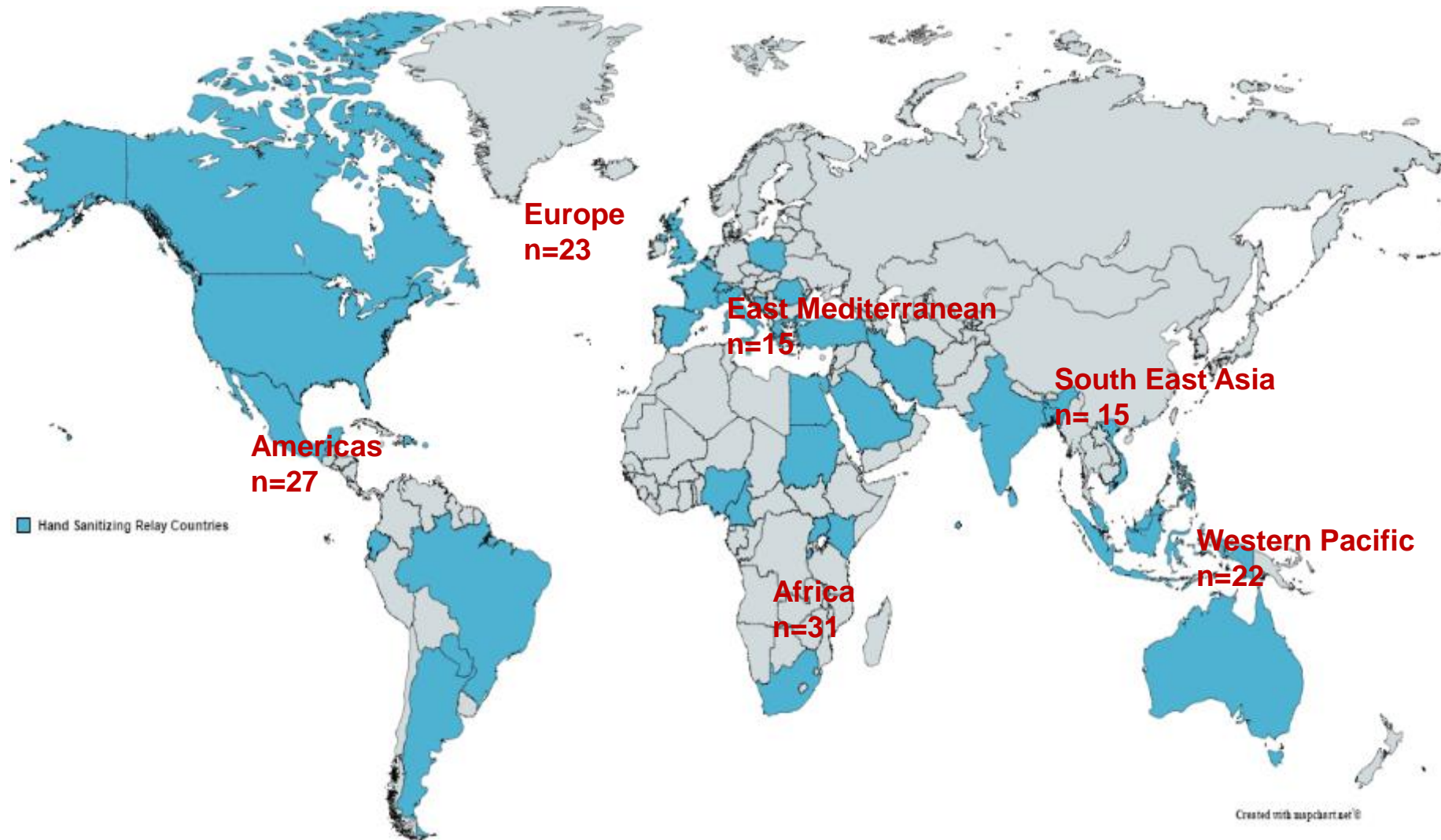
Short report

The global hand-sanitizing relay: promoting hand hygiene through innovation

E. Tartari^{a,b,c}, D. Pires^{a,d}, F. Bellissimo-Rodrigues^a, M. De Kraker^a,
T-H. Borzykowski^a, B. Allegranzi^b, D. Pittet^{a,*}

- 27 hospitals submitted to WHO CC videos/ photos or posters of the organized HSRelay event
- 19 hospitals registered to set a new Guinness World Record
- HCWs participating:
 - Nurses, Doctors, Allied medical professionals,
 - Nursing, medical and pharmacy students

The Global Hand Sanitizing Relay 2015



Iran



Australia



Philippines



Vietnam



Romania



India



Canada

Indonesia

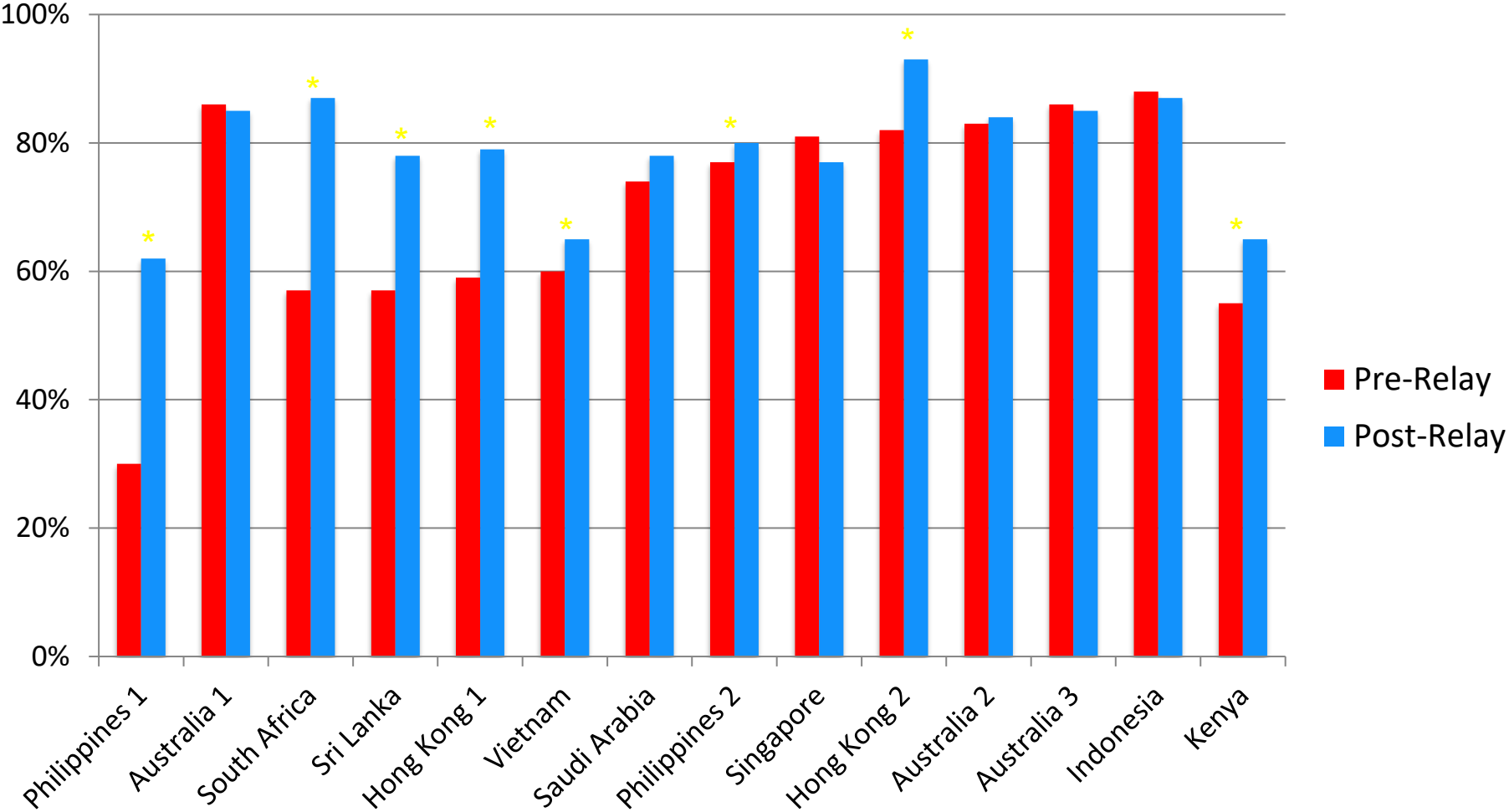


Pre-and-post HH compliance

- 14 hospitals from 10 countries measured hand hygiene compliance rates
- Pre-event period: April-May 2015
- Hand Sanitizing Relay: May 2015
- Post-event period: June-September 2015



Pre-and-post HH compliance



Conclusion



- Hand Sanitizing Relay, an excellent opportunity: for team spirit between IPC and HCWs in hospitals
- Promoting WHO 6-step technique and “My 5 Moments for Hand Hygiene”
- Tool to mobilize HCWs to maintain the hand hygiene momentum
- Making IPC teams visible in the wards

Adapt to Adopt

...and let people be creative



- The *time factor* necessary for all HCWs to remain present during the HSRelay activity, away from clinical duties.
- *Facilities adapted* the recommended HSRelay procedure to correct for the time factor.
- HSRelay in wards/departments at different time

Mashhad,
Iran, 2015

N=660



Certificate to participants from the WHO CC

Certificate of recognition

The World Health Organization Collaborating Centre on Patient Safety
Infection Control & Improving Practices
is honoured to certify

..... from *Manila Doctors Hospitals*

participated in a Hand Sanitizing Relay
in support of the WHO's Clean Care is Safer Care Program

October 13, 2015
10th Clean Care is Safer Care anniversary



Professor Didier Pittet, MD, MS, CBE
Lead Adviser
WHO Clean Care is Safer Care Program
University of Geneva Hospitals and Faculty of Medicine,
Geneva, Switzerland





Farah Muhammad with Sayeeda Fatema Shahinoor and 4 others.
6 May · Dhaka, Bangladesh

Apollo Hospitals Dhaka celebrated World Hand Hygiene Day with Surgeons for safe surgical outcome



Like Comment Share

Tcheun-How Borzykowski and 7 others

Didier Pittet shared ICPIC - International Conference on Prevention & Infection Control's live video.
17 June at 17:35



...because together we are stronger

The Hand Sanitizing Relay video



Train-the-Trainers: a standardized approach to hand hygiene training



Daniela Pires, Ermira Tartari, Carolina Fankhauser, Marcela Hernandez, Sara Masson-Roy, Josiane Stzajel-Bossiard, Américo Agostinho, Fernando Bellissimo-Rodrigues, Didier Pittet

Train-the-trainers in hand hygiene

- **Standardized approach to guide hand hygiene training**
at the national or regional level for IPC experts
- **Harmonize elements of competence in HH**
- Foment regional or national **networks of cooperation and leadership**
- **Fight “campaign fatigue”**

TTT in hand hygiene: **structure**

- Based on the WHO HH multimodal strategy
 1. Lectures and round tables
 2. Hands-on-simulation training
 3. Sharing of experiences
 4. Evaluation of knowledge pre-post course



1. Lectures and round tables

- Burden of healthcare-associated infections
- Multimodal improvement strategies
- Approaches dealing with campaign fatigue
- Updates on HH research



2. Hands-on-training

- **Focus on direct monitoring of HH compliance and feedback:**
 - visual **video reviewing** of clinical scenarios
 - **role-plays** (organization of work, monitoring & feedback)



3. Sharing of experiences

- Participants presentation of their own experiences, problems and solutions
- Learning from others success and failure stories



4. HH knowledge, attitude and behaviour questionnaire (pre & post)

- HAI and HH knowledge
- Beliefs and attitudes towards hand hygiene
- Clinical scenarios questions
- Assess improvement before – after the course

Case examples

- Brazil



2015

- Spain



2016

- Mexico



2017 (2)

- Malaysia



2017, 2019

- South Africa



2017, 2019

- Iran



2017

- Thailand



2018

Rio de Janeiro, Brazil, 2015



Train the Trainers

Rio de Janeiro, 23-25.02.2015

Windsor Atlantica Hotel
Av. Atlantica, 1020 - Copacabana

Chair: Prof. Didier Pittet, MD, MS, CBE

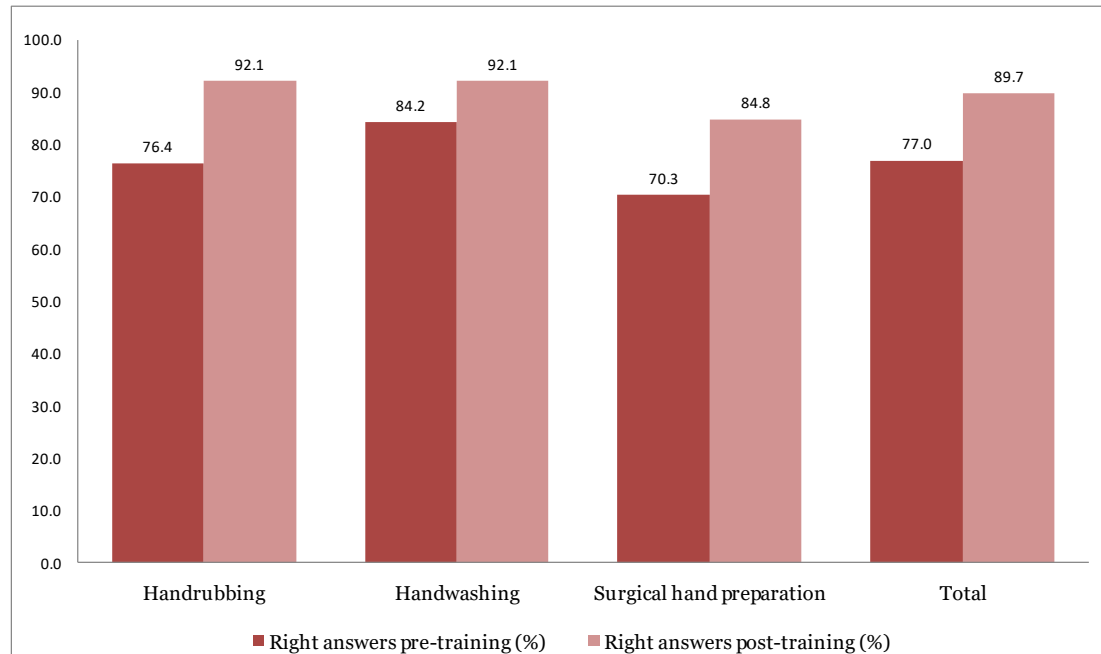
Collaborators/Faculties: Americo Agostinho, RN, MS
Fernando Bellissimo Rodrigues, MD, PhD

3-day course

33 IPC experts

D. Pittet, F. Bellissimo-Rodrigues, A. Agostinho

Rio de Janeiro, Brazil



Overall, the rate of correct answers was 77.0% before and 89.7% after the course ($p < 0.001$).

Madrid, Spain, 2016



2-day course
21 IPC experts
15 hospitals

D. Pires, M. Hernandez,
C. Fankhauser

1^{er} CURSO TRAIN THE TRAINERS MONITORIZACIÓN Y OBSERVACIÓN DE LA HIGIENE DE MANOS



Madrid, 3-4 junio de 2016
EstreForum Palacio de los Infantes
Calle del Rey, 38
28000 San Lorenzo del Escorial



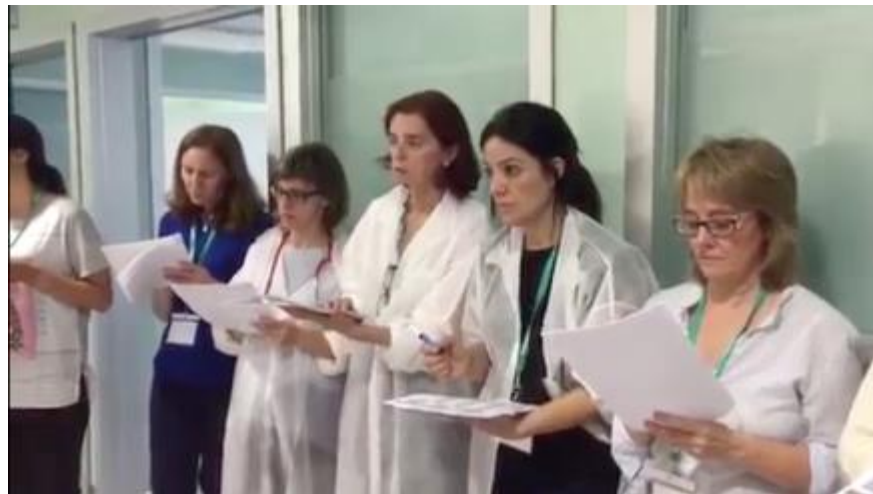
VIERNES 3 DE JUNIO

- 10:00 Bienvenida, entrega documentación y registro.
- 10:30 Cuestionario de evaluación antes del curso.
- 11:00 Carga global de las Infecciones Relacionadas con la Atención Sanitaria. Daniela Pires, MD.
- 11:30 El inicio de la promoción de la higiene de manos en Ginebra y su globalización. Carolina Fankhauser, MS.
- 12:30 Estrategia Multimodal de la mejora en la higiene de manos de la OMS. Marcela Hernández, MD.
- 13:30 *Almuerzo en el hotel.*
- 14:30 Marco de Autoevaluación de la Higiene de Manos de la OMS; Premio a la Excelencia en la Higiene de Manos y Relevancia de la Higiene de Manos de la OMS. Carolina Fankhauser, MS.
- 15:00 "Mis cinco momentos para la higiene de manos" concepto y monitorización. Marcela Hernández, MD.
- 16:30 *Pausa Café.*
- 17:00 Videos de formación en higiene de manos y discusión.
- 18:30 ¿Qué hay de nuevo en la higiene de manos? Daniela Pires, MD.
- 19:00 Discusión.
- 21:00 *Cena Restaurante Genara. Plaza de San Lorenzo, 2.*

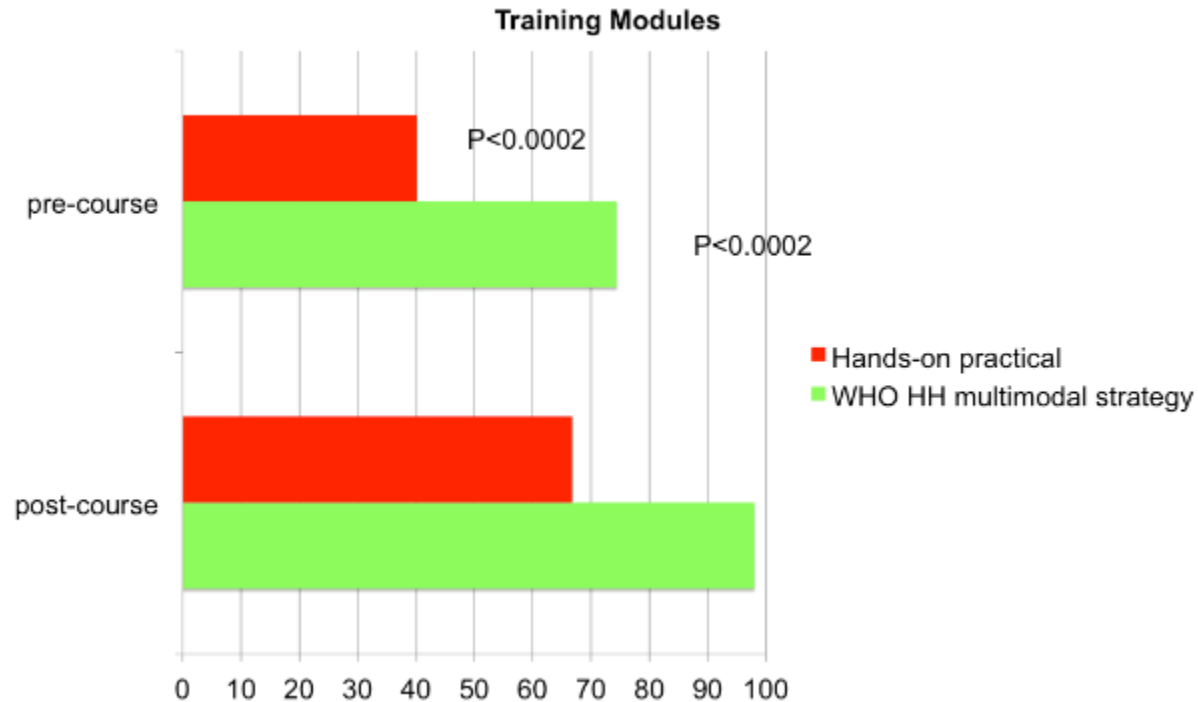
SÁBADO 4 DE JUNIO

- 09:00 Practicas en el Hospital parte I : Juego de roles por grupos.
- 10:30 *Pausa Café.*
- 11:00 Practicas en el Hospital parte II : Juego de roles por grupos.
- 13:30 *Almuerzo en el hotel.*
- 14:30 Relatos de logros y desafíos en la higiene de manos. Presentaciones de los participantes.
- 16:30 *Pausa Café.*
- 17:00 Discusión final.
- 17:30 Cuestionario de evaluación final.
- 18:00 **FIN CURSO.**

Madrid, Spain



Madrid, Spain



53% (8/15) hospitals had a programme of training and validation of HH observers
67% (10/15) had a strategy in place for regular HH education of HCWs

video

Puebla, Mexico, 2017



3-day course
22 IPC experts
12 doctors, 10 nurses

Agostinho, M. Hernández,
C. Fankhauser, D. Pittet



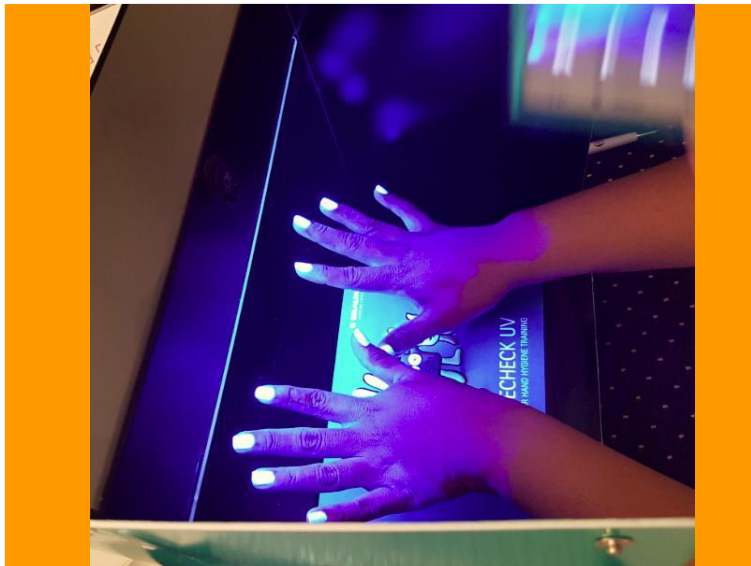
**TRAIN THE TRAINERS:
FORMACIÓN DE LÍDERES EN LA IMPLEMENTACIÓN
DE LA ESTRATEGIA MULTIMODAL DE LA OMS
PARA LA MEJORA EN LA HIGIENE DE LAS MANOS**

La lucha contra la resistencia a los
antibióticos está en tus manos.

9-12 Abril 2017 | Puebla | México
Hotel Quinta Real Puebla



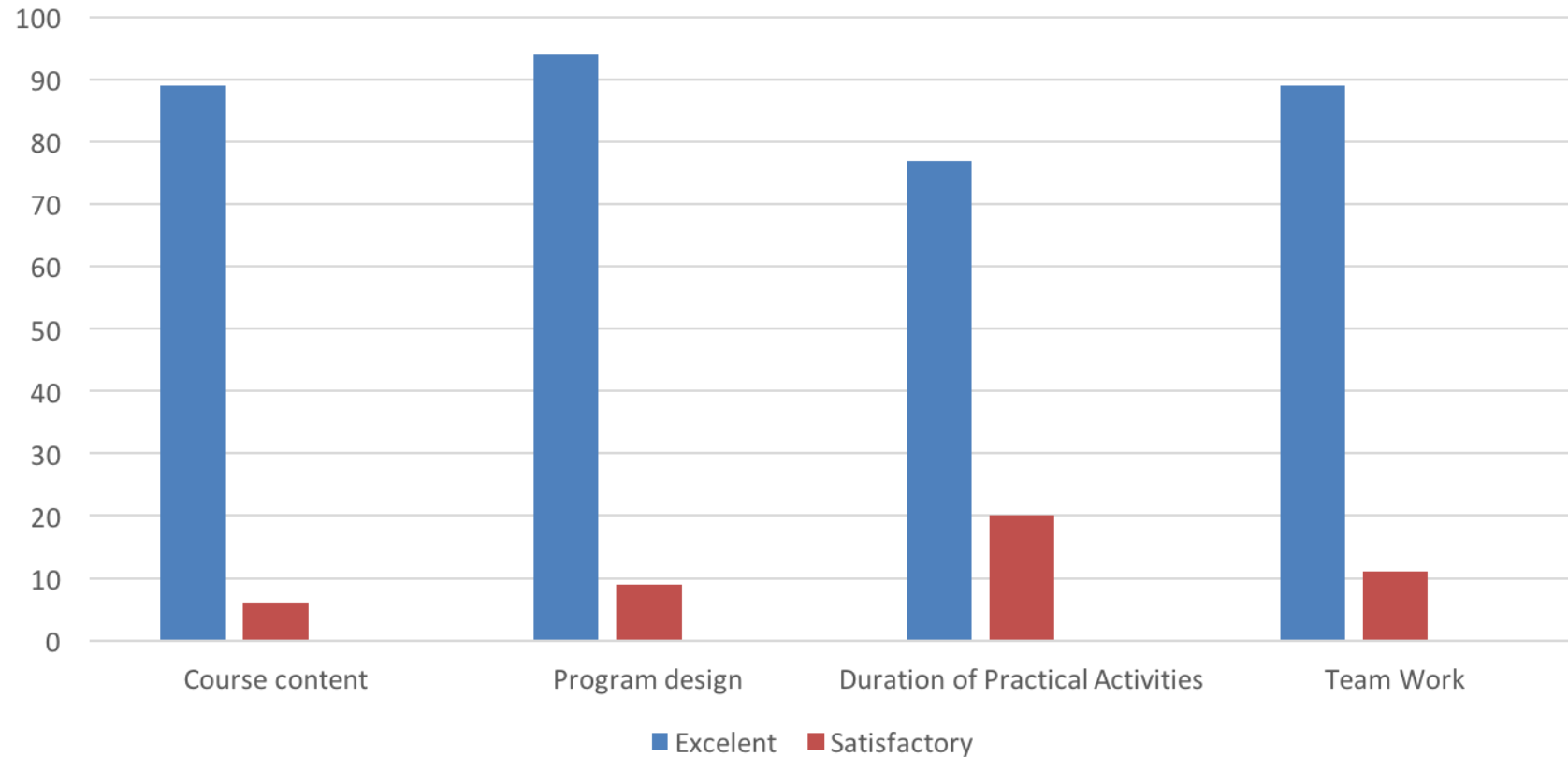
Puebla, Mexico



Puebla, Mexico



Mexico TTT Feedback in percentage.



Immediate feedback from participants

Jalisco, Mexico, 2017



2.5 day course
51 participants

Agostinho, M. Hernández,
C. Fankhauser, D. Pittet

Kuching, Malaysia, 2017

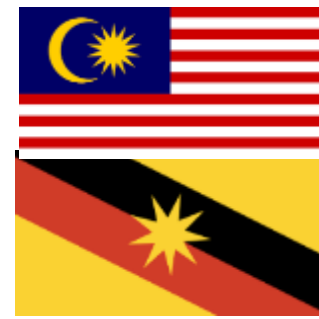


3-day course

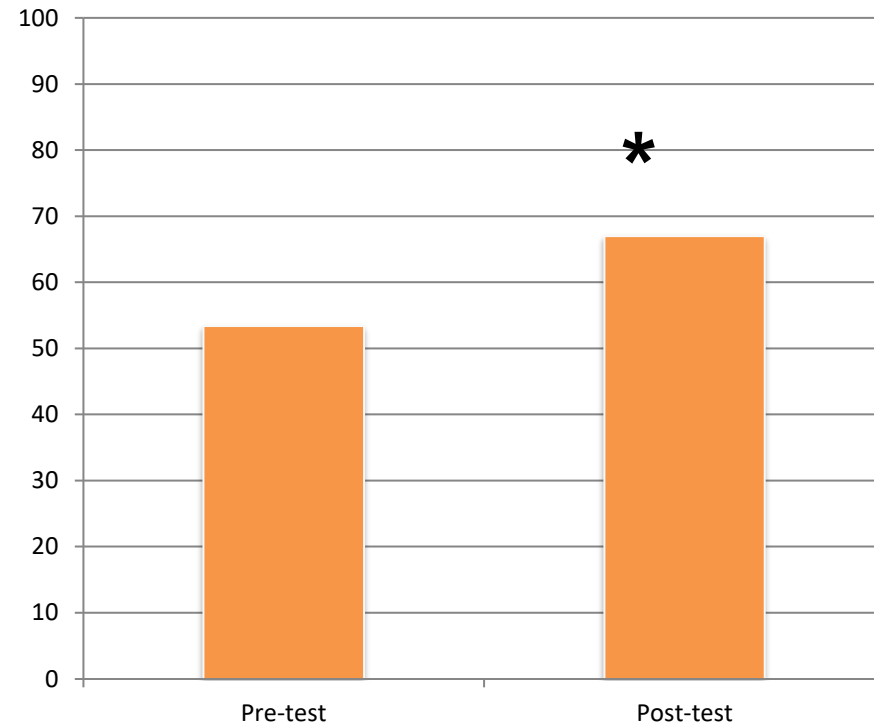
E. Tartari, C. Fankhauser, Sarah
Masson-Roy
D. Pittet

Lead and supported by Ministry of Health
Political commitment
80 participants
14 states, 28 hospitals
3 from Ministry of Higher Education

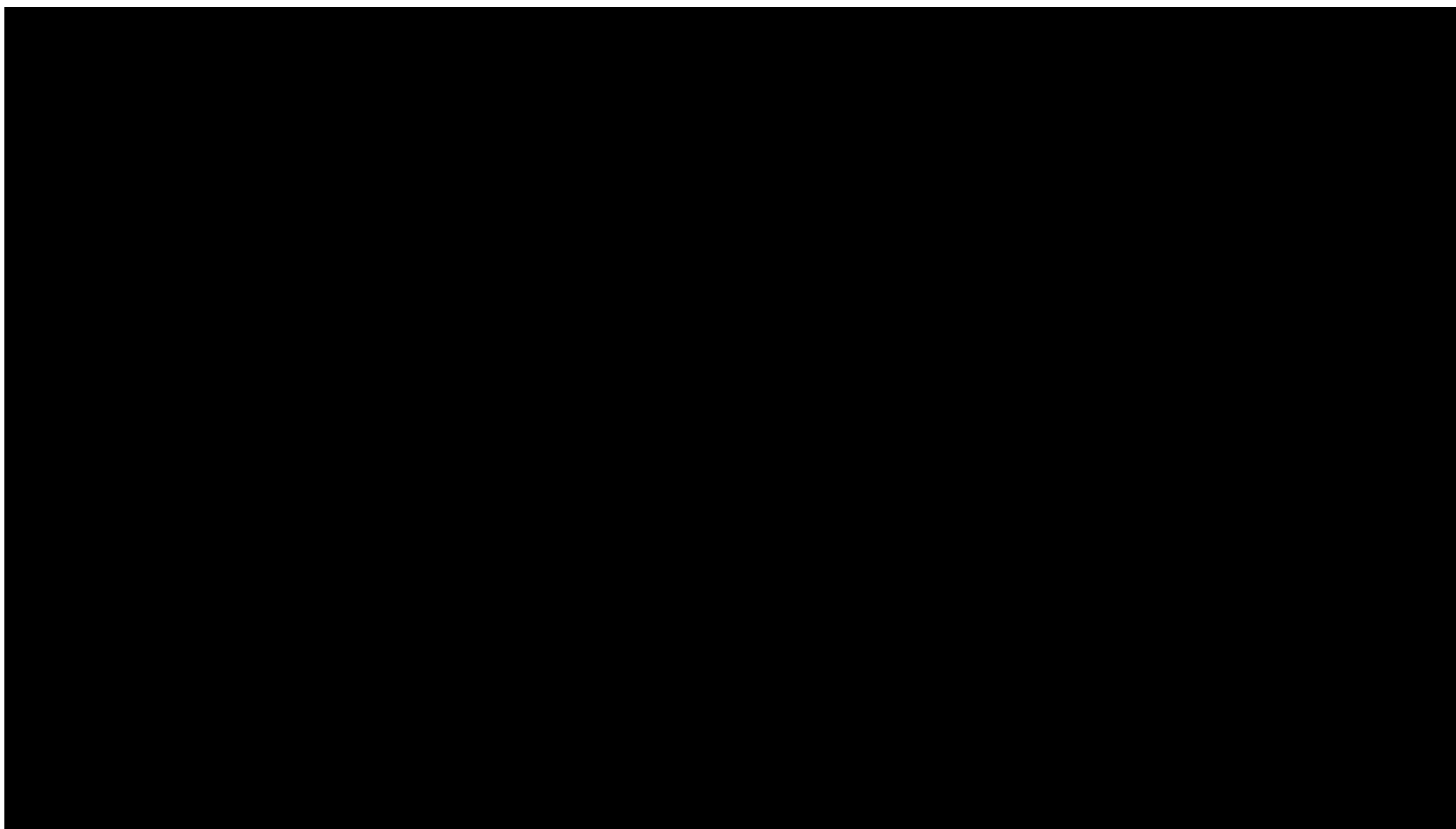
Kuching, Malaysia, 2017



Kuching, Malaysia, 2017



TTT Kuching, Malaysia, 2017



Cape Town, South Africa, 2017



3-day course

37 IPC experts

17 countries

D. Pires, E. Tartari, C. Fankhauser,
D. Pittet



**Infection Control
Africa Network**

Hands-on Simulation Training Cape Town, South Africa



Mashhad, Iran, 2017



3-day course
supported by Ministry of Health
38 IPC experts, >10 cities

D. Pires, E. Tartari, J. Stzajzel-Boissard
D. Pittet

Mashhad, Iran, 2017



Activities after the TTT



- **Brazil:** network of train-the-trainers, including the winners of the HHEA, several national courses
- **Mexico:** true domino effect (scheduled national TTT with 200 participants!)
- **Spain:** IPC experts replicated the concept and have performed a national TTT training
- **Iran:** Trained participants organized hand hygiene training for health care workers



lun. 27/11/2017 21:02

À : DA COSTA PIRES Maria Daniela;

• Vous avez répondu le 28/11/2017 20:06.

Dear Marria

Thanks for the reply. I would like to express my sincere gratitude for all that was taught in " hand hygiene:train the trainers" conference in Mashhad. A few days ago we held a workshop on hand hygiene in Ahwaz (where i currently work). There were 50 participants. We made use of the same material (slides, vidoes and educational tools used in Mashhad) throughtout the workshop. Everything went well and the feedback was positive. I still may have some questions regarding some of the material especially some the videos which I will address in my future emails if you wouldn't mind.

Looking forward to hearing from you

Sincerely yours

Saiedeh Mouri

31/10 to 02/11/2017

Conclusions

- It can create an “domino effect”, to be replicated in each country by the participants
- Contributes to the harmonization of HH practices
- Contributes to new promotional activities for improving HH practices
- Great opportunity to create regional and national networks
- Future perspectives: HH core competencies, certification, validation of monitors, etc.

Thank you

All participants!

