Singapore's COVID-19 Experience

Good Practice and Training Challenges

Global Health Security Agenda E-meeting hosted by Thailand, 3 Nov 2020

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Saw Swee Hock School of Public Health



MINISTRY OF HEALTH

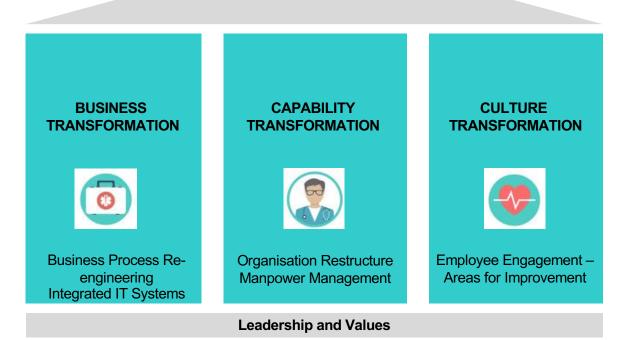
Epidemiology WHO Western Pacific R Epidemiology

15 to 16 No.

2018 | Tokyo, Japan

Workforce Development a Priority...

Public Health Service Transformation



Footloose!

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Basic competencies

Applied epidemiology and rapid response

How to undertake rapid response on the ground for surveillance, investigation and control

Fundamentals of public health practice

How to apply evidence-based scientific approach when conducting outbreak field investigations

Elementary methods in field epidemiology

How to explain transmission dynamics in the emergence of unusual public health events and epidemics

Foundational level

Additional competencies

Epidemic intelligence primer

How to perform multi-disciplinary investigation into epidemics and environmental threats

Epidemiologic risk assessment

How to apply the principles and practice of risk assessment and management for all hazards

Outbreak epidemiology and global health

How to control outbreaks with implications for global health security and health regulations

Communicable diseases control

How to undertake surveillance, epidemiology and response to disease clusters and outbreaks

Intermediate level

Additional competencies

Health emergencies and preparedness

How to conduct whole-of-government approach in pandemic management, prevention and control

Community health protection

How to advocate a whole-of-society approach in addressing public health emergencies

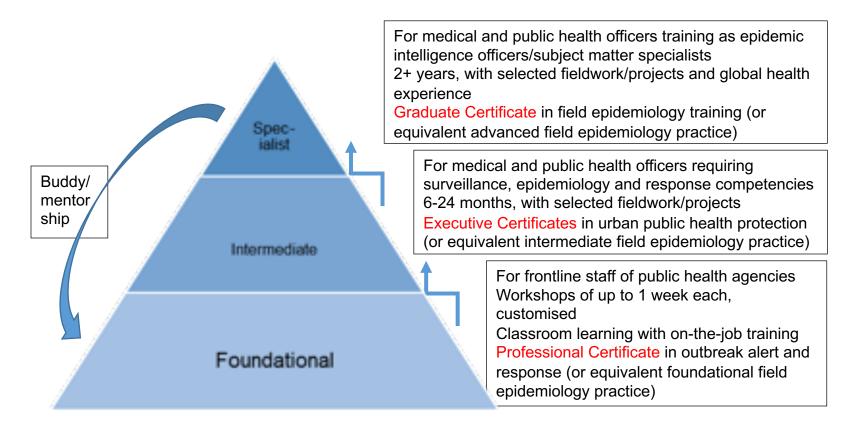
Specialist competencies

- 1. Leadership in the community
- 2. Epidemic intelligence services
- 3. Global health security
- 4. Outbreak alert and response

Intermediate-to-advanced level



Three Tiers for Field Epidemiology Workforce Development



What Do Trainees Wish?

Longe the

VideoRS2

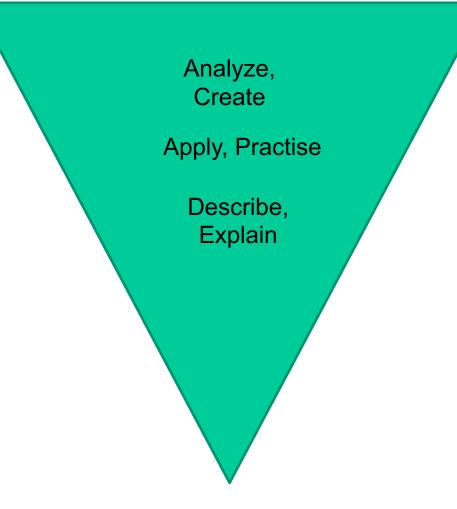
WHAT MILLENNIALS WANT

- Want to know why they need to know
- Practical insights with immediate relevance to work
- Experiential learning by doing, error, and experience
- Problem-solving skills, not content-centred learning
- Internal motivation and own pace for learning journey



Finding More Clues...

Our Learning Journey



90% *Roleplay Experiences*

70% Interactive Visits

50% Multi Media

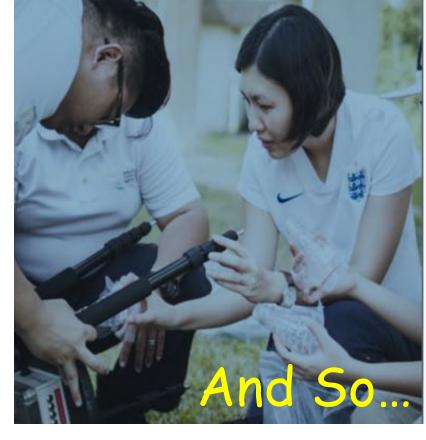
30% Audiovisuals

10% Listening, Reading

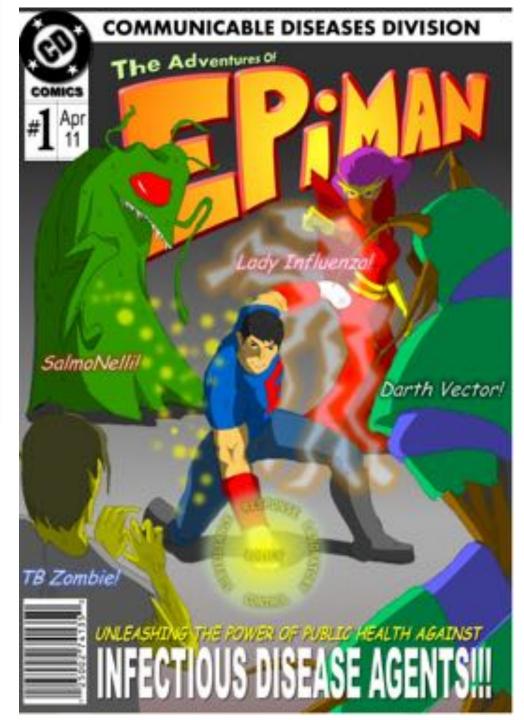
Somewhere on this planet...

Survivors Morphing Heroes









THE CREDIBLE HULK

YOU WON'T LIKE ME WHEN I'M ANGRY ...

BECAUSE I ALWAYS SUPPORT MY ARGUMENT WITH PROPERLY DOCUMENTED SCHOLARLY SOURCES.



Heroes in the making Work in Progress!

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EXIT

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The Art of Public Health...



The Art of Public Health...

Painful lessons, not taught!

- 1. Communities exist with different reality and expectations
- 2. Epidemiologists should not infer beyond what evidence supports
- 3. Systems are not built to care; it's people who do
- 4. Communicating with stakeholders requires credibility, mutual respect and patience
- 5. Engagement with policymakers more art than science

Are You Game?

VideoRS5

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Our vision for tomorrow...

A cadre of highly competent physician and non-physician professionals who, *having cross-trained in FETP across hospitals and agencies*, can provide domain expertise in public health with skills and knowledge for outbreak management and pandemic response!