



Pasteur Institute - Ho Chi Minh City
Training Center



香港大學 - 巴斯德研究中心
HKU-Pasteur Research Pole

INTERNATIONAL WORKSHOP

OUTBREAK INVESTIGATION

2-6 NOVEMBER 2015, HO CHI MINH CITY, VIETNAM

PROGRAM

AMBASSADE DE FRANCE
Délégation régionale de Coopération



Faculty

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Trainees

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Program

2 November 2015

- 8:00 – 8:30 **Opening ceremony**
Phan Trong Lan
Director, Pasteur Institute of Ho Chi Minh City, Vietnam
Roberto Bruzzone
Director, HKU – Pasteur Research Pole, Hong Kong SAR
Emmanuel Ly-Batallan
Consul General of France in Ho Chi Minh City, Vietnam
- 8:30 – 9:30 **Introduction and Trainees' pre-test**
Roberto Bruzzone
- 9:30 – 10:00 **Break & Group Photo**
- 10:00 – 11:00 **Outbreak investigation: Rationale and terminology**
Stephanie Davies and David Harley
- 11:00 – 12:00 **Epidemiologic steps in outbreak investigation**
Stephanie Davies and David Harley
- 12:00 – 13:30 **Lunch**
- 13:30 – 15:00 **Practical session: Investigating an outbreak of H5N1 in a rural village**
Stephanie Davies and David Harley
In this case study trainees will apply the steps to investigate an outbreak (2 or 3 cases) of H5N1 in a rural village. Students will create a simple line list and epi curve and discuss potential control measures.
- 15:00 – 15:15 **Break**
- 15:15 – 17:00 **Practical session: Using Epi Info to create a questionnaire**
Stephanie Davies, David Harley, Hoang Quoc Cuong and ??
A short lecture on questionnaire design will be followed by instruction in how to use Epi Info to create a simple questionnaire for an outbreak.
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**
Roberto Bruzzone

3 November 2015

- 8:30 – 9:45 **Outbreak detection and confirmation**
Stephanie Davies and David Harley
- 9:45 – 10:00 **Break**
- 10:00 – 11:00 **Case definition and case finding**
Stephanie Davies and David Harley
- 11:00 – 12:00 **Practical session: Investigating a vector borne outbreak (dengue)**
This case study will focus on the importance of early detection and creating a sensitive versus specific case definition.
- 12:00 – 13:30 **Lunch**
- 13:30 – 15:00 **Practical session: Investigating a vector borne outbreak (dengue)**
Stephanie Davies, David Harley, Hoang Quoc Cuong and ??
Trainees will be provided with a dataset from the case study of the morning (in excel). They will use this Epi Info to do descriptive analysis of the data including frequency tables and an epi curve.
- 15:00 – 15:15 **Break**
- 15:15 – 17:00 **Practical session: Investigating a vector borne outbreak (dengue)**
Stephanie Davies, David Harley, Hoang Quoc Cuong and ??
This session will continue from the last, with trainees performing analysis using Epi Info. There will be a short discussion on the main study designs used in outbreaks (case control and cohort) however the focus of this session will be on managing and interpreting data for public health action.
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**
Roberto Bruzzzone

3 November 2015

- 8:30 – 9:45 **Outbreak detection and confirmation**
Stephanie Davies and David Harley
- 9:45 – 10:00 **Break**
- 10:00 – 11:00 **Case definition and case finding**
Stephanie Davies and David Harley
- 11:00 – 12:00 **Practical session: Investigating a food borne outbreak**
This case study will focus on the importance of early detection and creating a sensitive versus specific case definition.
- 12:00 – 13:30 **Lunch**
- 13:30 – 15:00 **Practical session: Investigating a food borne outbreak**
Trainees will be provided with a dataset from the case study of the morning (in excel). They will use this Epi Info to do descriptive analysis of the data including frequency tables and an epi curve.
- 15:00 – 15:15 **Break**
- 15:15 – 17:00 **Practical session: Investigating a food borne outbreak**
This session will continue from the last, with trainees performing analysis using Epi Info. There will be a short discussion on the main study designs used in outbreaks (case control and cohort) however the focus of this session will be on managing and interpreting data for public health action.
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**
Roberto Bruzzone

4 November 2015

- 7:00 – 13:00 **Field study at Thu Duc Preventive Medicine Center**
Hoang Quoc Cuong
- 13:00 – 14:30 **Lunch**
- 14:30 – 15:30 **Practical Session: Field study**
Hoang Quoc Cuong
Trainees will use Epi Info to create a database and enter the data they collected that morning during the field study. A KAP survey on dengue will also be conducted.
- 15:30 – 15:45 **Break**
- 15:45 – 17:00 **Practical Session: Field study**
Hoang Quoc Cuong
Trainees will give a short presentation on their experience from the field study, including the data they collected. A facilitated group discussion will focus on possible public health action required, any other next steps and what trainees learnt.
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**
Roberto Bruzzone

5 November 2015

- 8:30 – 9:30 **Introduction to risk assessment and risk communication**
Maria Van Kerkhove and Leisha Nolen
- 9:30 – 9:45 **Break**
- 9:45 – 11:00 **Practical session: Risk assessment**
Maria Van Kerkhove and Leisha Nolen
Trainees will estimate risk of MERS CoV or Ebola in a South East Asian country and perform a risk assessment on a localized outbreak. Students conduct a risk assessment and determine what steps to take next for both.
- 11:00 – 12:00 **Practical session: Risk communication**
Teaching Team
Students draft a risk communication strategy for the above risk assessments.
- 12:00 – 13:30 **Lunch**
- 13:30 – 14:30 **Introduction to writing outbreak reports**
Maria Van Kerkhove and Leisha Nolen
- 14:30 – 14:45 **Break**
- 14:45 – 17:00 **Practical Session: Preparing an outbreak report**
Teaching Team
In small groups students write an outbreak report on one of the outbreak case studies of the preceding days. The last 30 minutes of this session will involve groups discussing their different approaches to writing this focussing on what does and doesn't work.
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**
Roberto Bruzzone

6 November 2015

8:30 – 9:45	Environmental and other additional studies Maria Van Kerkhove
9:45 – 10:00	Break
10:00 – 12:00	Panel discussion: Common pitfalls in outbreak investigations Teaching Team <i>Experienced investigators and trainees share lessons learnt. A group document that collates these by theme would be a good outcome.</i>
12:00 – 13:30	Lunch
13:30 – 14:30	Panel discussion: Common pitfalls in outbreak investigations <i>Continued from the morning session.</i>
14:30 – 15:00	Break
15:00 – 16:00	Post-test Teaching Team
16:30 – 17:00	Course evaluation
17:00 – 17:30	Closing remarks Teaching Team
19:00	Dinner