



**Karolinska
Institutet**

Two-day training on field management and control of Ebola

Background

The West Africa Ebola epidemic is increasing exponentially. More international efforts are needed to control and manage the outbreak. However, there is limited Ebola knowledge and experience in Sweden. This training aims at teaching the main principles of Ebola management and control focusing on personal protection and challenges in the field.

Participants

Medical and non-medical staff intending to work with Ebola. The primary targets are those with already defined Ebola related assignment. In addition the course will be offered to field experienced planning to deploy to work with Ebola. Selection of participants will be made based on relevance. Maximum number of students is 20.

Scope and learning objectives

The training is based on the curriculum from similar trainings arranged by MSF, WHO and CDC.

At the end of the training the participants will have:

Basic understanding of

- The context in the affected areas and the current outbreak
- Ebola transmission and infection and prevention control measures.
- The components of Ebola management and control
 - a. Design and set up of a Ebola treatment centre
 - b. Surveillance and lab diagnostics
 - c. Safe burials
 - d. Additional measures
 - e. Personal protection

Basic skills on

- Personal protection against Ebola
- Safe behaviour in the Ebola care setting

Time and location

Initially three trainings are planned 13-14/10, 20-21/10 and 28-29/10. Location will be Karolinska Institutet.

Arrangers

Kunskapscentrum katastrofmedicin, health system and policy, Department of public health sciences supported by Centre for global health Karolinska Institutet and Socialstyrelsen

Responsible and contacts

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Schedule Day 1

Time	Topic	Content Note	Format	Facilitator: <i>Pending confirmation</i>
8.00 – 8.30	Coffee and registration			
8.00 – 8.30	Introduction	Introduction of the training, facilitators and participants	Plenary discussion	Johan von Schreeb, Anneli Eriksson (AE)
8.30 – 9.00	The context	A brief overview of the context in affected area including demographics, health status and system	Lecture	Johan von Schreeb (JvS)
9.00- 9.30	Epidemiology of the current outbreak	Areas affected, estimated case counts, projected growth spread and impact	Lecture	To be confirmed
9.30 – 10.00	Overview of Ebola outbreak management and control	General + current strategy (WHO road map) +challenges <ul style="list-style-type: none"> • Case management/isolation • Contact tracing • Surveillance • Safe burials • Community sensitisation 	Lecture	JvS
10.00 – 10.20	Coffee			
Case management				
10.20 – 11.00	Ebola: the virus and disease	The virus, the disease, characteristics, symptoms and signs and transmission Case definitions, triage	Lecture	<i>Jenny Stenqvist, Bitr. Smittskyddsöverläkare SLL TBC</i>
11.00 – 11.30	Ebola laboratory testing	<ul style="list-style-type: none"> • The role of Laboratory testing • Techniques • Transportation of sample • Drawing blood and mouth swabs 	Lecture	<i>Andreas Bråve (Folkhälsomyndigheten – lab) To be confirmed</i>
11.30 – 12.15	Clinical management	<ul style="list-style-type: none"> • Clinical management • Discharge criteria • Current and future treatments including vaccines 		AE
12.15 – 13.00	Lunch			
13.00 – 13.45	Infection prevention and	General principles of infection control, philosophy of	Lecture	<i>To be confirmed</i>

	control	personal protective equipment (PPE)		
13.45 – 15.00	Ebola Treatment Units	Operating principles of an MSF-ETU, patient and staff flow, evaluation of a facility for ability to safely administer care, how to keep safe in an ETU, the buddy system	Lecture	<i>Stefan Liljegren (SL) MSF To be confirmed</i>
15.00 – 15.30	Coffee			
15.30 – 16.00	ETU Exercise	Participants will walk in small groups through an ETU, looking at the critical components that allow safe provision of healthcare	Walk through training premises	SL, AE, JvS
16.00 – 18.30	Personal Protective Equipment PPE exercise	Participants will <ul style="list-style-type: none"> • Put on MSF high-risk level-I PPE and then • Simulate sample from an Ebola patient • Simulate specimen (blood) transport for testing • Take off PPE under direct supervision of partner/course staff • Walk through ETU level of care safely 		All facilitators - medical
18.30 – 19.00	Wrap Up			All facilitators
19.00	Dinner	At restaurant close to training		

Schedule Day 2

Time	Topic	Content Note	Format	Facilitator
8.00 – 8.30	Coffee and restitution of previous day	Questions and discussions around the first day of the course.	Plenary discussion	JvS, AE
8.30 – 9.30	Patient Triage Exercise	Participants will work in small groups to triage suspected and confirmed cases of Ebola presenting to an ETU	Small group case-based exercise	<i>Arash Izadkhasti (AI) and Elin Folkesson (EF) MSF To be confirmed</i>
9.30 – 9.45	Coffee			
9.45 – 10.45	Water, hygiene, and sanitation	Steps to take when transporting or moving patients, proper ways to dispose of waste, burial procedures, disinfecting patient areas and transport vehicles, different disinfection solutions	Lecture	<i>WASH specialist MSF</i>
10.45 – 12.45	PPE Practical Exercise	Participants will	Practical exercise	JvS, AE, SL, AI, EF +

		<ul style="list-style-type: none"> • Put on MSF high-risk level PPE and then • Prepare chlorine solution • Clean and disinfect a simulated patient care area (e.g., simulated stool, emesis, etc.) • Conduct a simulated waste disposal exercise • Take off PPE under direct supervision of partner and course staff 		WATSAN MSF
12.45 – 13.30	Lunch			
13.30 – 14.15	Community sensitisation	Community health promotion and Ebola sensitization and its role Psychosocial consequences of Ebola, impact on families, fear and stigma of Ebola	Lecture, small group and video	<i>To be confirmed</i>
14.15 – 15.00	Surveillance and contact tracing	Practical aspects and challenges on case findings, surveillance (suspected, probable and confirmed)	Lecture	<i>To be confirmed</i>
15.00 – 15.30	Coffee			
16.00 – 17.30	Staff health	Strategies for staff health: Causes of workplace stress associated with treating Ebola, individual commitment required to work in an Ebola outbreak setting, when to access healthcare and other support for responders, staying safe outside the ETU. MEDEVAC, Returning home and how to handle the 21day-waiting period and how to recognize PTSD.	Interactive lecture And group discussion – exercise (what do you do if you or colleague falls ill?)	AE+EF
17.30 – 18.00	End of course	Wrap up and course evaluation	Plenary discussion	All