DIPLOMA IN THE MEDICAL CARE OF CATASTROPHES

SYLLABUS

Module 1: Epidemiology of Disasters and societies affected by Conflict (defining the situation and gathering information)

			Components
(b)	` '		(e)
Disasters	Disaster - a disruption of normal life and activities that requires the affected community to make extraordinary efforts to cope with it and usually requires outside help	Types of disaster Natural Man made Complex emergencies Societies affected by conflict	Natural A) Sudden or acute onset Earthquakes, Flood, High wind, Landslide, Volcanic eruption, Epidemics B) Slow or chronic onset Drought, Famine
			Man-made Industrial Chemical, microbiological, radiological and nuclear accidents, fire, explosion, pollution, terrorism Transport accidents Deforestation
		2) Phases	
		Social and Public health implications of disasters	Emergency phase Post emergency phase Peaks of mortality Complex humanitarian emergencies Wars, civil strife etc leading to Internally Displaced Persons and Refugees Characteristics of Fragile and Failed states War and public health
	Topic (b) Disasters	(b) (c) Disasters Disaster - a disruption of normal life and activities that requires the affected community to make extraordinary efforts to cope with it and usually	Disasters Disasters Disaster - a disruption of normal life and activities that requires the affected community to make extraordinary efforts to cope with it and usually requires outside help Complex emergencies Societies affected by conflict 2) Phases Social and Public health

				Features of post-conflict societies Stabilisation of post-conflict states Urbanisation and disasters
M1:2	Epidemiology in disasters	The use of epidemiological methods to study and manage the public health aspects of disasters.	Time, person & place Numbers and rates Key indicators	 Who, what, when, where, why. how Mortality CMR, CFR, Age specific, Maternal, U5MR Morbidity Incidence, Attack rate, Incidence rate Prevalence Nutritional Health services Vital needs
			Data collection methods	Surveillance systems, surveys, outbreak investigations
M1:3	Initial assessment (Needs assessment)	Assessment provides an understanding of the disaster situation and a clear analysis of threats to life, dignity, health and livelihoods to determine, in consultation with the relevant authorities, whether an external response is required and, if so, the nature of the response"	1) Methods 2) Content	Objectives, Preparation, Information sought, Obtaining information, Validity & bias, Personnel, Deployment, Reporting Key agencies requiring needs assessment information
M1:4	Health Intelligence acquisition	Intelligence on medical, bio-scientific, epidemiological, environmental and other information related to human or animal health.	Sources Information sought Basic analytical techniques for use in predictive intelligence production.	Environmental factors Topography and Climate, Socio-economic Factors, Public Health Arrangements, Animal and Plant Hazards, Environmental and Industrial Hazards (EIH) Epidemiology and morbidity factors Incidence & prevalence of endemic diseases,

M1:5	Disease surveillance (see also Topic 4)	The ongoing systematic collection, analysis and interpretation of data in order to plan, implement and evaluate public health interventions (WHO).	On-site assessment of health service capabilities and wider public health arrangements during recconnaisance. Reporting systems to identify changes in health services and support infrastructure, and mortality/morbidity in affected population. Surveillance systems Case definitions Sources of data Evaluation of surveillance systems	Distribution, Effects of population migration Control of Communicable disease Health services and support infrastructure Capabilities of hospitals and treatment facilities Availability of local care, MEDEVAC and emergency health service capabilities, Medical materiel, blood banking, clinical laboratory facilities, cold chain arrangements Comprehensive Sentinel WHO, CDC, local Health facilities, individuals, aid agencies
		Module 2: Price	orities for intervention in	disasters
M2:1	Priorities for intervention	What needs to be done immediately	Top ten priorities	 Initial assessment (Topic 3) Measles immunisation (Topic 15) WASH (Topic 7) Food & Nutrition (Topic 9) Shelter & site planning (Topic 8) Health care in the emergency phase (Modules 3 & 4) Control of communicable diseases & epidemics (Modules 3 & 4) Public Health Surveillance (Topic 5) Human resource training (Module 6) Co-ordination (Modules 5 & 6) Provision of security (Module 6)

M:2:2	WASH	Water, sanitation & hygiene requirements for those affected by disasters	WHO Drinking Water Guidelines Local Water Supply legislation Sphere Standards	Water requirements, Quantity (broken down by purpose of use) -Quality - Availability Extraction: Types of sources Purification: -Sedimentation - Disinfection Storage Distribution
			Sanitation Sphere Standards	Latrine types (including cultural considerations) Numbers required Location and spacing of latrines Anal cleansing Waste disposal
			Hygiene Sphere Standards	Hand-washing Bathing Laundry
M2:3	Shelter and site planning	Requirements for provision of shelter for those affected by disasters	UN and WHO guidelines Sphere Standards	Areas required per individual Basic construction specifications Layout of camps, including minimising of vulnerability of individuals/sections of populations.
M2:4	Food and nutrition	Requirements for provision of food for those affected by disasters, both normally nourished and malnourished	UN and WHO guidelines Sphere standards	Daily calorific requirements Principles of nutrition surveillance of a population. Local custom Local availability
			Management of malnutrition in populations	Identification of vulnerable groups Malnutritionprinciples of treatment Food delivery – World Food Programme (WFP), agencies, logistic considerations

				Food security and vulnerable elements Rationing Therapeutic and supplementary feeding Vitamin and micronutrient deficiencies
M2:5	Evaluation of interventions	Evaluation of effectiveness of interventions with respect to donors, recipients and agencies	Principles and methods of evaluation	Means of evaluating single projects and programmes Reporting
		 ugenese		
	Module 3:	Recognition and co	ontrol of communicable o	diseases and epidemics
			ous diseases see Clinical Knov	•
			mportance in disasters and societies	
			Morbidity and mortality	
			ses, measurement and reporting	tarma of diagonal
M3:1	Diseases of Poverty	Diseases that are more	and societies affected by conflict In the Diseases especially common in	Malaria, TB, HIV, Measles, pneumonia, and
IVIS. I	Diseases of Poverty	prevalent among the poor than among wealthier	poverty stricken populations	diarrhoeal diseases
		people	Disease as a cause of poverty	
M3:2	Important vector- borne diseases and	The most important vector borne and zoonotic	Arthropod vectors	Mosquitoes, Sandflies, Ticks, Lice
	zoonoses	diseases likely to affect those involved in	Rodent vectors	Rats (brown, black, multimammate), mice, bats
	(See also Topic 76)	disasters	Important vector borne diseases	Malaria, Yellow Fever, Dengue, Typhus (Tick and louse borne), Leishmaniasis, Plague
			Viral haemorrhagic fevers	Ebola, Marburg, Lassa fever
			Vector control measures:	Hygiene, site selection & management, sanitation, safe and effective use of Insecticides (larviciding, residual spraying, fogging, baiting, impregnation of bednets and possibly clothing), rodenticides and traps, waste disposal
			Feral animals and their potential	Effective and humane control of feral animals

			role in the spread of rabies, and as a reservoir of zoonoses	
M3:3	Individual protection against insect vector- borne disease	Measures to prevent or limit the incidence of insect vector borne disease	Chemoprophylaxis Vaccination Vector avoidance/Bite avoidance,	Antimalarials Yellow fever Protective clothing, bednets (preferably impregnated with an appropriate insecticide), insect repellents
M3:4	Important oral route diseases	Important diseases transmitted via the mouth	Important infectious diseases	Cholera, Typhoid, Dysentery, Hepatitis A & E, food poisoning (<i>Salmonella</i> , <i>Campylobacter</i> , <i>E.coli</i> , viral pathogens [norovirus, rotavirus etc]),
			Toxins in food and water	Botulism, Staphylococcus aureus, Bacillus cereus, scombrotoxins, ciguatera,
			Control	Water and food, fly control, waste control
M3:5	Important airborne	Important diseases	Important diseases	Measles, Meningitis, Influenza, Diphtheria, TB
	diseases	acquired primarily by inhalation	Control	Isolation, vaccination, screening
			Mechanisms of transmission	Aerosols, role of hands
M3:6	Important blood- borne diseases	Important diseases transmitted in blood, blood products and body	Important diseases Control	Hepatitis B, C, HIV
		fluids	Control	Vaccination (Hep B), PPE, PEP
M3:7	The place of vaccination and/or	Use of a preparation of a weakened or killed pathogen or part of its	What specific vaccines appropriate?	Routine or as a response to an outbreak?
	immunisation	structure to stimulate immunity against the	When and where?	

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		pathogen		
		Modul	e 4: Clinical Knowledge	
The s	necialised clinical kr			to deal with the health problems likely to
1110 5	poolanooa om near Ki		ered in the disaster environ	•
		De ellecante	red in the disaster environ	HIGH
	(M4:a) Environmental in	juries and medicine in remot	te environments
M4:a:1	Heat injury –	Injury caused by exposure	Types of Heat Illness/Injury;	Sunburn
	recognition,	to the sun or in hot		Prickly Heat
	treatment and	conditions		Heat Stress/exhaustion
	prevention			Heat Stroke
	prevention		Recognition of:	Core temperature
			Heat Stress	Oore temperature
			Heat Stroke	
			Preventive Measures:	Acclimatisation
				Monitoring of water intake
				Appropriate clothing Salt intake
				Sait illiane
			Predisposition to heat illness	
			Treatment principles	
			·	
M4:a:2	Cold injury –	Injury caused by exposure	Types of cold injury	Frost nip
	recognition,	to extremes of cold		Frostbite
	treatment and			Immersion Foot
	prevention			Hypothermia
			Recognition of	
			Hypothermia	
			Peripheral cold injury	
			Preventive measures:	Appropriate clothing
			Fieventive incasules.	Appropriate clothing

			Predisposition to cold injury Treatment principles Altitude considerations, including altitude sickness	Diet Fluid intake Fitness
M4:a:3	Injuries due to bites and toxins	Injury cause by the bites of or contact with poisonous living organisms	Poisonous organisms: Snakes, Types of snake venom Signs & symptoms Treatment Other poisonous organisms	Vipers, cobras Proteolytic, Hemotoxic, Neurotoxic, Cytotoxic Wash wound, immobilize, elevate, bandage, antivenins Arthropods (spiders, scorpions, centipedes), Aquatic animals (fish, jellyfish, octopi, algae), plants (nettles, poison ivy, algae, mushrooms)
(M4:b:1	Evacuation of the casualties by road/ship Aeromedical evacuation (AE)	The medical requirements for and potential problems associated with the medical evacuation of casualties by land or sea The potential role for aeromedical evacuation	Medical problems of medevac by road Use of ships and trains for evacuation and as treatment centres Role Limitations	Deliver teams and equipment, remove casualties, access specialist care, evacuate aid workers Cost, availability, time to organise, site access,

			Capabilities	capacity, working environment, physiological challenges Helicopter: easy access but limited range and capacity, hostile working environment Fixed wing: need a landing strip and logistic support but increased capacity and range
			Clinical considerations	Basic physiology of hypoxia and pressure changes
			Military role and capabilities	AE essential to military ops to reduce medical footprint, expected standards of care, ranges from basic resuscitation and evacuation to intensive care recovery to home nation
			Disadvantages	Limited asset, expensive, who do you evacuate, may make triage more complex, may splinter families
M4:b:3	The " <c>ABCDE" PHEM system</c>	The structured treatment of casualties	Principles	Primary survey and resuscitation Team based horizontal resuscitation Secondary survey- where carried out, often in medical facility some time later Triage before treatment in mass casualty situations
M4:b:4	Triage	The application of a system to prioritise the immediate treatment of casualties	Principles of Triage How triage is performed	Why and when triage is performed Methods, limitations, who can perform triage, labelling and flow of information at an incident requiring triage
		ododdiioo	Triage is a dynamic process	Triage can be performed at various stages in a mass casualty situation
			Triage sieve/sort	Knowledge of each system and where each is performed

			Types of triage	T system, physiological, anatomical and mixed Principles and ethics
			The expectant/T4 casualty	
M4:b:5	Resuscitation fluids in emergency	Pre-Hospital fluid administration	Advantages of giving fluids to casualties	Maintaining circulation and blood pressure, importance in head injuries and burns
	trauma care		Disadvantages of fluids	Not a blood replacement, risk of clot disruption and worsening haemorrhage
			Administration of fluids	Pre-hospital consensus view on fluid use and NICE pre-hospital fluid guidelines
			Types of fluids	Awareness of different fluid types
M4:b:6	Importance of Timings in PHEM	Historical background and recognising modern practices	Trimodal distribution of death	Description of the term, understanding the modern limitations
		praesice	Golden hour, platinum ten minutes	Description of the terms
			Importance of time to definitive care	Key variable is time from injury to advanced care
			Damage Control Resuscitation (DCR)	Military background-, incorporates advanced airway skills e.g. Rapid Sequence Intubation with an ability to give blood products
			Damage Control Surgery	Recognition of importance
M4:b:7	Relevant Injury Patterns	An awareness of the most likely casualty types	Explosive injuries	Importance of initial haemorrhage control, management of amputees, co-existing pelvic injuries in blast casualties
			Bullet wounds	Appreciation of cavitation and different bullet types, valuet of body armour
			Crush injuries	Awareness of consensus statement on crush injury and crush syndrome, long term complications, management of prolonged trapped casualties

M4:b:8	Analgesia and trauma casualties	Types of analgesia, administration and	Analgesia types	Simple vs therapeutic methods
		complications of use	Administration	Available routes and indications for each
			Complications Applicability to disaster teams	Of commonly used agents Limitations in carrying equipment
			Prolonged entrapment	Difficulties managing analgesia requirements vs side effects in trapped casualties
		(M4:c) Primary car	e in disasters and conflict en	vironments
M4:c:1	The management of primary care	Dealing with the increase primary care needs that can affect those caught	Most common health needs in each phase of a disaster	Emergency, chronic emergency, transition, post conflict (see also Module 1)
	(see also Topics 11 - 17)	up in disasters and conflict	Public health needs	
		Commet	Specific problems	Communicable diseases, malnutrition,
			Specific vulnerable groups	Children and the elderly , women of reproductive age (see also Topics 32 – 24)
			Chronic infections	TB, HIV/AIDS
			Prevention Isolation	Immunisation, water and sanitation, camp planning and shelter, outreach and home visitors
			Treatment	Antimicrobials, supportive treatment, national protocols,
				outreach / primary centres/ support to local systems, referrals
			Chronic diseases	Diabetes, renal failure, cancers, home-based care, referrals, local protocols
M4:c:2	Standards and	The health services which play a central role in	Sphere guidelines for health care,	
	challenges for primary care in disasters and	disaster response and involve the widest scope	Principle of treatment of common diseases in large populations	WHO guidelines such as epidemic thresholds

	conflict	of health care		
	environments		Issues of resource limitations	Forward planning, considerations of host population needs and available resources
			Field definitions of disease	Ministry of Health definitions if available, WHO definitions, definitions adapted to specific circumstances and resource availability
			Medicines management in disasters	Cold chain, supply chain, storage, expiry dates, WHO guidelines on donation standards, security, documentation
			Support to local systems / provision of health posts / centres / clinics	Pros and cons of support to local facilities where existing vs developing parallel structures Human resources and sustainability; local HR structures, salaries, needs
M4:c:3	Prevention and treatment of	Treatment of communicable diseases encountered in disasters	Diarrhoeal disease	Shigella, cholera, bacilliary dysentery, travellers diarrhoea
	communicable diseases (see also Module 3)	and conflict environments	Respiratory tract infections	Often underestimated, implications for children, shelter and indoor smoke, health promotion via home visitors or similar
			STIs & HIV/AIDS	Infection prevention; helping those living with HIV, issues of stigma, mainstreaming into other programmes
			Wound and skin infections	Use of PPE Scabies in children – treatment and prevention through community programmes
			Fungal infections	Identification through community outreach workers, preventive measures
			Protection of staff	Universal precautions, protocols re needle stick injuries etc., what medicine are kept in 'first aid kit' expense and expiry dates
M4:c:4	Maternal and Child	The special health demands of this	Reproductive health (see topic 32)	, , ,

	Health	vulnerable group	Immunisation MCH programmes (see primary care above) Mental health (See also Topics 35 - 42, 79 a-c) Gender-based violence (see reproductive health) (see also	Measles vaccination, Extended Programme Immunisation, cold chain, support to local structures Integration, support to local structures, links with nutrition, reproductive health, immunisation, psychosocial care Needs created by disaster and conflict environments, locally appropriate responses, referral services Potentially increased needs in disaster and conflict environments; prevention; treatment and follow up; local support programmes.
M4:c:5	Reproductive health	Reproductive health is a state of complete physical, mental and social well-being, and not merely the absence of reproductive disease or infirmity. Reproductive health deals with the reproductive processes, functions and system at all stages of life.	Topic 33) Minimum Initial Service Package (MISP) Safe Motherhood Sexual and Gender-based violence (see also Topics 32,34) Sexually Transmitted Diseases, including HIV/AIDS (see also Topics 16,29) Family Planning Young People	Immediately available resources provided on the basis of best practice without the need for a complex needs assessment To enable women to go safely through pregnancy and childbirth. To provide couples with the best chance of having a healthy infant; locally acceptable provision; religious considerations Special needs of adolescents
M4:c:6	Health of children		Vulnerable groups Nutrition (see also Topic 9) Susceptibility to infectious disease Chronic disease (see also Topic	Unaccompanied children, children in work, child soldiers See especially ARIs, measles

	(1		Exploitation Protection Schooling & play all and mental health implicationsee also Topics 79 a-c)	Labour, sexual & gender based, child soldiers Reunification, local networks, Min of SW, special programmes Integration or special programmes, camp planning, designated resources, sport ons of disasters
M4:d:1	Anticipated and pathological psychosocial reactions to severe stress	Defining the range of people's reactions to stress in disasters	The impacts of traumatic events (including displacement and asylum seeking) on families, children and older people and their common reactions to severe stress. This includes: a. Normal and pathological reactions to trauma and disaster; b. The common coping mechanisms that people of all ages use when faced with severe stress; c. Outline understanding of the impact of traumatic events on people's future psychosocial development; Cultural differences in coping.	The concept of primary and secondary stressors;
M4:d:2	Psychosocial resilience	Defining the nature of psychosocial resilience and the factors that protect people from the psychosocial and mental health implications of	The nature of distress and differentiating it from mental disorders in response to traumatic circumstances. The definition of psychosocial resilience in the context of	

		disasters	traumatic events and its 'personal' and 'collective' dimensions.	
			A basic understanding of the concept of post-traumatic growth.	
M4:d:3	Awareness of people's longer-term and/or problematic psychosocial	Knowledge about the broad range of psychosocial problems and mental disorders that can affect people after disasters	The core factors that increase the risks of people responding adversely, including developing mental disorders, after traumatic events in the short, medium and longer terms.	Critical awareness of the literature This section must cover people of all ages
	reactions to trauma and mental disorders after traumatic events		The circumstances and/or disorders that require intervention delivered by: a. every responder; and b. mental health specialists.	
			A simple summary of the epidemiology, impacts and prognosis of the most common psychosocial responses and mental disorders.	
			More information on only the mental disorders that are most frequent following traumatic events.	
M4:d:4	Awareness of contemporary doctrine on planning and delivering ethical and effective psychosocial and mental health care after disasters	Defining the steps in planning and delivering psychosocial and mental health care immediately after disasters and in the medium- and longerterms	Awareness of the NATO-TENTS principles for psychosocial and mental health care for people affected by disasters, war, terrorism, and displacement. This includes: a. A broad outline of the NATO-TENTS principles for good practice in planning and delivering psychosocial and mental health care for people affected by disasters;	TENTS is an EU-funded programme Common cross-agency issues Good multi-agency working practices May include reference to the new Sphere Handbook on its publication (it is in revision presently) and to forthcoming WHO guidance

			stepped model of care;	
			Awareness of the importance of, and challenges for ethical practice of trauma-care;	
			Awareness of the methodological and ethical challenges of research during disasters, war and all other traumatic events.	
M4:d:5	Preventing psychosocial problems and	Prevention and initial community- and family- orientated psychosocial	The psychosocial importance of restoring communities and priorities for action.	The importance of good communication skills
	mental disorders and early psychosocial	responses by agencies including certain specific interventions with people who have psychosocial	The concept of re-traumatisation and its relevance to psychosocial and mental health care.	Doing no further harm
	interventions with communities and families	problems	General approaches to planning and delivering effective psychosocial interventions for communities that have been affected by disasters and major incidents of all kinds.	
			The roles of schools and work.	
			Providing information following traumatic events.	
			Psychological first aid and its components.	Psychosocial care that all responders can and should deliver
			An outline of the evidence for screening for, and preventing post-traumatic disorders.	
M4:d:6	Evidence-based interventions for common post-traumatic	An outline of good practice for non-mental health service staff including awareness of	The principles of an evidence- based approach to preventing, recognising and treating post traumatic mental disorders	Critical awareness of key lessons from the evidence and from experience
	psychosocial	what does and does not work in assessing and treating people who	Critical knowledge of, and basic skills in assessing and intervening	For trained non-mental health service practitioners

	problems and mental disorders	develop post-traumatic mental disorders	with people who are affected psychosocially or who develop mental disorders	
			Recognition of common problems (includes rape/sexual abuse).	
			Core principles of assessment including basic psychosocial and psychiatric assessment and triage	To include when not to become engaged in delivering psychosocial and psychiatric interventions
			A plain guide to what interventions work for whom and which do not.	
			Critical decisions about intervening.	
M4:d :7	Caring for responders to disasters and		Awareness of the psychosocial risks run by people who respond to disasters.	
	major incidents		The principles of supporting appropriately professional responders to disasters.	
			Outline awareness of the current evidence for the effectiveness or otherwise of interventions to support professional responders after disasters.	
M4:d:8	Anticipated and pathological psychosocial reactions to severe stress	Defining the range of people's reactions to stress in disasters	The impacts of traumatic events (including displacement and asylum seeking) on families, children and older people and their common reactions to severe stress. This includes:	The concept of primary and secondary stressors;
			d. Normal and pathological reactions to trauma and disaster;	
			e. The common coping mechanisms that people of all ages use when faced with	

Protection, Camp Coordination and Management,

Water Sanitation and Hygiene, Health, Emergency Shelter, Nutrition, Emergency Telecommunications,

Code of Conduct

in Disaster Relief

Logistics, Early Recovery, Education and Agriculture,

for the Red Cross/Red Crescent Movement & NGO's

Humanitarian Accountability Partnership International

People In Aid Code of Good Practice in the

Management and Support of Aid Personnel

The SPHERE project (Humanitarian Charter & Minimum Standards in Disaster Response)

			f. Outline understanding of the impact of traumatic events on people's future psychosocial development;							
			Cultural differences in coping.							
ı	Non-medical concep		Disaster and Conflict env rtant for the understanding			_	nent c	of cata	stroph	es
ı		ts and subjects impo		g and	l mar	nagei		of cata	stroph	ies
M5:a:1		ts and subjects impo	rtant for the understanding	g and	l mar	nagei		of catas	stroph	ies

The eleven clusters (sectors)

Three important codes

sector or service provided

during a humanitarian

Codes and agencies

and assessment of

providing guidance for

standards in humanitarian

crisis

practice

Codes of practice for

humanitarian

workers

M5:a:2

18

Evaluation of Humanitarian

		(M5:b) Concepts, an	actions d humanitarian law, human r	(HAP International) ALNAP (Active Learning Network for Accountability and Performance in Humanitarian Action) rights, ethics
M5:b:1	Humanitarianism	An ethic of kindness, benevolence and sympathy extended universally and impartially to all human beings.	The four underlying concepts: Humanitarian space Abuse of humanitarianism	Humanity Independence Impartiality Neutrality
M5:b:2	The Geneva Conventions especially those applicable to the Sick and Wounded	Four treaties and three additional protocols that set the standards in international law for humanitarian treatment of the victims of war.	Protected personnel The Geneva Emblem Humanitarian Law	Geneva Protocols Equality of medical effort based on clinical need rather than any other consideration
M5:b:3	Ethics of humanitarian action	The ethical principles underlying humanitarian activities	Ethics of civilian humanitarian action Tensions in the humanitarian arena Conflict affected societies and humanitarian action	Do no harm ethos

	(M5:c) Stakeho	lders: UN, NGOs, ICRC	Ethics of military humanitarian operations , host nation actors, donor national actors.	ations, refugees/IDPS, military
M5:c:1	Refugees & Displaced Persons	Individuals who have been forced to flee their homes and have either crossed an internationally recognised border (refugee) or are still within the borders of their home state (IDP)	Definitions of Refugee and IDP Non-refoulement Repatriation and re-settlement	Refugee – a person who "owing to a well-founded fear of being persecuted for reasons of race, religion, nationality, membership of a particular social group, or political opinion, is outside the country of his nationality, and is unable to or, owing to such fear, is unwilling to avail himself of the protection of that country". IDP – persons who have been forced or obliged to flee or to leave their homes or places of habitual residence, as a result of or in order to avoid the effects of armed conflict, situations of generalized violence, violations of human rights or natural or human-made disasters, and who have not crossed an internationally recognized State border A principle in international law, which concerns the protection of refugees from being returned to places where their lives or freedoms could be threatened.
M5:c:2	Conflict & the care of detainees and POWs	The Conventions governing the treatment of detainees and POWs (See also Topic 46)	Geneva Conventions Health care of POWs and detainees	Relative to the Treatment of Prisoners of War Relative to the Protection of Civilian Persons in Time of War

			Role of ICRC	
			Ethnicity and healthcare	
M5:c:3	Host nations	Rights and duties of nations in which disasters are or have occurred and	Relief commissions Role of ministries	
		in which humanitarian aid agencies are operating	Co-ordination of humanitarian activities by host nation	Links with UN, NGOs, military
M5:c:4	Agencies involved in relief work	All those operational organisations whose work is based on the principle of humanity: to prevent and alleviate human suffering wherever it may be found to protect life and health and to ensure respect for the human being (See also Topic 43)	International Supranational Governmental Intergovernmental NGOs Importance of co-operation Avoidance of duplication of effort Interoperability difficulties Co-ordination of humanitarian	
M5:c:5	Role of the military	The role that military forces can and should play in relief operations in natural disasters and complex emergencies (See also Topic 47)	activities Complex humanitarian emergencies and the actors involved Military as aid workers Key documents Erosion of separation between military and humanitarians OCHA Continuum of Engagement	Military Relief Operations, CIMIC, Hearts and Minds "Sharing the Space" Oslo protocol MDCA protocol

What humanitarians need from military forces Information sharing Bilateral military assistance UN peacekeeping operations Role of NATO M5:c:6 Donors Sources of funding for humanitarian and development aid programmes (See also Topic 51) M5:c:7 Gender issues What humanitarians need from military assistance UXO, safe water, logistic support, medical sup IXO, safe water, logistic support, medical support iXO, safe water, logistic support iXO, s	port
Bilateral military assistance UN peacekeeping operations Role of NATO M5:c:6 Donors Sources of funding for humanitarian and development aid programmes (See also Topic 51) Military assistance UN peacekeeping operations Role of NATO Governmental Multinational Private Bilateral donations Criteria & Governance by donors Evaluation of programmes Funding and applications Log frames Log frames Log frames Misc:7 Gender issues Identification and analysis Roles of men and women in the Impact on relief programmes (e.g. suitability and programmes)	
M5:c:6 Donors Sources of funding for humanitarian and development aid programmes (See also Topic 51) M5:c:7 Gender issues Links between UN forces and UN humanitarian and development aid programmes UN peacekeeping operations Role of NATO Governmental Multinational Multinational Private Bilateral donations Criteria & Governance by donors Evaluation of programmes Funding and applications Links between UN forces and UN humanitarian agencies (e.g. DfiD, USAID, JICA, AusAid etc.). (e.g. ECHO) Log frames Log frames Impact on relief programmes (e.g. suitability are suitability	
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of relationships between societies affected of staff of different sexes) men and women, their	d use
roles, privileges, statuses Vulnerable groups and positions	
(See also Topics 32 – 34) Gender based violence	
(M5:d) Media	
M5:d:1 The roles and Media agendas	
impacts of the media Managing the media	

			Interviews and techniques	
			·	
			National and international media	
			Policy for dealing with the media Media training	
			(M5:e) CBRNE	
M5:e:1	Chemical warfare agents	Toxic chemicals used as warfare agents or instruments of terrorism	Classification and effects of chemical agents Physical properties (persistency)	The connection between these and response management requirements.
			Potential delivery methods and application to terrorism	
			Types of detection and identification	
M5:e:2	Potential Biological Agents	Microbiological organisms or products used as warfare agents or instruments of terrorism	Bacteria, Viruses, Toxins, other	Biological agents of note: • Bacillus anthracis • Yersinia pestis • Smallpox • Botulinum toxin
			Biological factors	 Lethal or incapacitating Infecting dose, incubation period, pathogenicity Transmissibility
			Strategic use	Large scale
			Potential delivery methods	Asymmetric warfareBioterrorism

M5:e:3	Radiation and Nuclear Hazards	Dangers resulting from the use of nuclear weapons, "dirty bombs" or other deliberate or accidental releases of radioactive materials	Types of radiation and their characteristics Medical effects of radiation	Types of radiation: Alpha, Beta, Gamma, X-ray, Neutrons Types of medical effects Deterministic Acute radiation syndrome Local radiation injury Stochastic (cancers)
			Potential delivery methods and application to terrorism	
			Types of detection and identification	Describe the difference between irradiation and contamination
			Principles of radiation health protection	Time / Distance / Shielding
M5:e:4	Effects of environmental and toxic industrial hazards (and trauma)	Dangers resulting from large scale accidental releases of toxic industrial hazards (TIH) or from long term pollution of the environment, water supplies etc.	Environmental pollution CBRN / EIH spectrum and the concept of CBRNE3 (Explosives, Environmental and Endemic)	Type: Water, air, land and food chain Overlap between EIH and CBRN Signs of a deliberate release (CBRN) compared to natural or accidental Management of concurrent trauma
M5:e:5	CBRN Incident Management	Methods for removing biological agents, chemicals or radiation from individuals or the environment	Safety Cordons Assessment	Personal protective equipment Hot / warm and cold zones Scene assessment (detect) Casualty assessment (diagnose)
			Triage	CBRN triage methods
			Casualty Hazard Management	Contain

				Decontamination Isolation Quarantine
M5:e:6	Treatment of	Treating those affected by	Decontamination	Specific methods for chemical contamination
inicio:	Chemical Casualties	chemical warfare agents and by industrial chemicals (intoxicated)	Casualty assessment	'Toxidromes' and pattern recognition Clinical investigations
			Supportive management	Application of CABCDE to the chemical casualty
			Definitive management (antidotes)	Specific antidote treatment
M5:e:7	Treatment of Biological Casualties	Treating those affected by biological agents or biological toxins (infected	Decontamination & isolation	Difference between contaminated, infected and infective (contagious)
		/ sepsis)	Casualty assessment	Syndromic approach to biological agents • Flu-like, respiratory, cutaneous, GI, haemorrhagic, neurological (peripheral / central)
			Supportive and definitive management	Application of CABCDE to the biological casualty Application of 'surviving sepsis' guidelines Use of antimicrobials, antitoxins, vaccines post- exposure
			Public health management	Infection control, quarantine, Restriction of Movement
M5:e:8	Treatment of Radiation Casualties	Treating those affected by radiation (irradiated)	Decontamination & decorporation	Use of decorporating agents for internal decontamination
			Casualty assessment	Radiological assessment of casualties including triage of nuclear casualties
			Supportive management	Application of CABCDE to the radiological casualty

			Definitive management of acute radiation syndrome	Replacement therapy Immunotherapy Stem cell and bone marrow transplant
		(M:5:f) Management	t of specific types of or aspects	of disasters
M5:f:1	Mass casualty events	Events, often with a wide range of factors, resulting	Land transport accidents	Road, rail, sea
	events	in large numbers of casualties	Air accidents	Air crashes
			Major events	Football matches, other sporting gatherings, demonstrations, religious events
M5:f:2	Dealing with the dead	The health and other implications of dealing	Health aspects	Role of deceased in transmission of disease
	ueau	with the dead	Disposal of the dead	Religious factors Different disposal methods Handling of cadavers Preparation of cadavers
			Other key items	Legal Psychosocial Cultural
			and protection of teams a	
	_		•	efficient and effective operation of society affected by conflict.
		(M6:a) To	eam formation and leadershi	p
M6:a:1	The principles of strategic leadership and management	Taking overall responsibility for the strategic direction coordination and control	Strategic leadership and management in disaster scenarios Recognition and understanding of	Basis and boundaries of strategic authority to prioritise and act, longer term planning Operating with own and host government,
		of teams through planning	major relief agencies (Govt, IO,	understanding culture and mission of agencies and

and responding to the	NGO) and their mandates.	importance of preservation of 'humanitarian space'.
disaster or supporting a society affected by conflict.	Mobilisation and utilisation of local community resources	Assessing potential of local resources including logistics
	The importance of strategic leadership	Seven Core Strategic Leadership Competencies 1. Direction, vision, mission, strategies and values 2. Alignment 3. Example and role model issues 4. Developing people at all levels 5. Effective communication 6. As change agents 7. Action in crisis and ambiguity.
	The role of strategic management - including ability to negotiate and co-ordinate within wider response	The 4 'Cs' - Command, Control, Coordination, and Computers (and up to date intelligence/information) Awareness of the strategic environment
	Needs-led resource allocation and management in disaster scenarios (especially as regards healthcare)	Needs assessment process, prioritization, allocation and logistics mechanisms/systems including stock security, storage requirements e.g. cold chain, inventory control and resupply.
	Equity	Concept of equity, ethics (utilitarianism/deontology) Local community engagement and security issues
	Coping with incomplete/limited resources and services	Managing scarcity and expectations of population, innovation, maximising safety/morale of team
	Setting priorities	Dynamic process to take account of changing situation in short, intermediate, and long term
	Essential supplies/equipment/drugs	Rapid and ongoing assessment process, action plan; Public Relations to avoid unsuitable/inappropriate donations of supplies etc.
	Proper reporting and documentation	Reporting/documentation system with clear policies and administrative support

M6:a:2	Leadership components	The skills of and requirements for the leadership role	Tactical/Team Leadership Role Leader Identification/Selection Qualifications Recognition of early symptoms of	Achieving the Task, Building and Maintaining the Team, Developing the Individual Leadership competencies (including communication skills, situational awareness/sensitivity awareness of group dynamics, conflict resolution, synergy and maintenance of good morale Stress – understanding occupational stress and
			psychological stress within the individuals/the team and its management Relationships with head office, other agencies, governments, military etc. Hiring and firing	specific stresses of the humanitarian work/environment Recognising signs of excessive stress, mental ill-health – anxiety, depression, PTSD; drugs/alcohol abuse, sexual relations (see Sers 77 a,b,c)
M6:a:3	Human resources and Training	Who to select, how to select them and what training may be needed	Importance of human resources (HR) in dealing with disasters and societies affected by conflict	Determining HR requirements – team/local recruitment Matching numbers with needs of programme and qualifications required HR Plan – organisation chart Job profiles e.g. home visitors in a refugee programme Staff policies - terms and conditions Selection procedures Training – assessment of training needs & delivery Induction, supervision, co-ordination

				Evaluation/appraisal
				Specific issues – Refugee workers, health workers,
				expatriate staff e.g. in refugee programmes
			(M6:b) Security	
M6:b:1	Personal & Group	Keeping the individual	Types of hazard	Road Traffic Accidents
	security	and the team safe from harm		Mines, boobytraps and UXO (Unexploded ordnance) Firearms and cutting/stabbing weapons
		nami	Awareness	Filearns and cutting/stabbling weapons
			of hazards	
			Briefings	
			Booking in and out	
			"Bounds and boundaries" Communications systems	Radio procedures
				·
			Risk avoidance	Defensive driving, Vehicle maintenance, Driver training and selection
				Vehicle equipment
				Environmental considerations (terrain, ice, road surfaces, volume of traffic etc)
			Hantona talvina	a) and dust an armture
			Hostage taking –	a) conduct on capture b) procedures on kidnap of group personnel
				Policy on medical treatment of hostages
	1	I	I	
	(M6:c) Adminis	tration, reporting, task	ing, HQ –field liaison, military	y concepts of command chain
M6:c:1	Planning and		Extent of problem	Role of health intelligence and on-site assessment
	resource allocation		Nature of problem Local abilities	
	(see also Topics 66 - 68)		Lucai abilities	

M6:c:2	Co-ordination	(See also topics 43, 51 & 52)	Other Agencies Priorities Interface and co-ordination with Governmental bodies locally Interface with other NGOs Co-ordination of teams Co-ordination with other agencies	
M6:c:3	Logistics	Procurement, transport, storage, distribution, finances, accommodation (See also Topics 4, 30)	Cold chain management Protection of medical supplies Offices & Accommodation Setting up transportation systems Warehousing Problem interfaces: Dependence upon others for supplies – coordination essential	Guidance from WHO/PAHO Supply Management System (SUMA) Customs Bureaucracy Corrupt officials Value of supplies
M6:c:4	Reporting		Preparation and writing of reports Timings	Essential content Weekly, annual, final
M6:c:5	Military organisation	Understanding the principles and organization of military forces and multinational military contingents in humanitarian operations	Chain of command Military organisation Military doctrine Civil Military Cooperation (CIMIC) NATO	How military forces operate Military links with UN organisations Humanitarian and disaster relief operations

(M6:c	d) Maintenance of the		teams including emergency of their medical evacuation	Peace support operations Post conflict stabilisation operations NGO-military relations and training How military forces can support NGO and UN activity Military medical capability care of team members (local & expatriate)
M6:d:1	Maintenance of the health of staff	Ensuring the physical and mental health of teams	Awareness of specific hazards and briefings	Diet, water intake, rest and sleep, alcohol, drugs, sexual health
	groups		Selection of personnel	Identifying people who are sufficiently at risk psychosocially for their involvement in certain missions and events to be inappropriate
			Monitoring individual persons	
			Who looks after the leader?	Nominated individual responsible for compliance,
			Primary and secondary care of team members including procedures for their evacuation home.	'buddy' system
M6:d:2	Personal protection	Measures to protect team	Prevalent/endemic diseases	
	against disease:	members and the team as a whole against disease	Pre-existing diseases	
	general activities (see also Topics 7, 13 -17)		Additional susceptibilities	
			Education on avoidance	
			Exclusion of persons who are at greater risk	
			Current medications	

			Vaccination	
			Personal protection of water sources	
			Domestic environmental health considerations	
			The concept of primary, secondary and tertiary protection	
M6:d:3	Protection against	Measures to protect the individual team members	Vectors	Arthropods (insects, ticks, mites), rodents
	vector borne	and the team as a whole	Personal protection.	Bite avoidance, Nets and sprays,
	diseases (see also Topics 12, 13))	against vector borne disease		Chemoprophylaxis (Antimalarial and other prophylaxis, caveats and alternatives, Side effects of prophylactic agents)
			Group protection.	Clearance of static water, residual spraying, disposal of waste
M6:d:4	Water requirements per person per day (see also Topic 7)	Minimum volumes of water required to maintain health, ensure hygiene and for food preparation	Quantity and quality Survival Basic needs	Sphere minima
		and for food proparation	Longer term needs	
			Monitoring of intake	
			Incremental requirements with climatic and work rate differences	
M6:d:5a	Psychosocial care for responders to disasters and major	Principles that impact on the requirements for providing psychosocial	Awareness of the psychosocial risks run by people who respond to disasters.	
	incidents: a). general	care for responders to humanitarian disasters and best practice in	The nature of psychosocial resilience	
	principles	providing that care (See also Topics 35 – 42)	The principles of supporting appropriately professional responders to disasters.	Examples include the NATO six level strategic stepped approach to psychosocial care for responders and the principles promoted by the
			Outline awareness of the current	Antares Foundation

M6:d:5b	Psychosocial care for responders to disasters and major incidents: b). caring for oneself	Activities to help team members to deal with the tensions inherent in, and common emergent stressors that arise when delivering humanitarian work in disasters (See also Topics 35 – 42)	evidence for the effectiveness or otherwise of interventions to support professional responders after disasters. The nature of psychosocial resilience: developing and sustaining one's own psychosocial resilience Personal psychosocial coping methods and preventative measures Awareness of the psychosocial risks for responders Self-awareness skills	Importance of social support but avoidance of single session psychological debriefing (Cochrane review) Cross-refer to the section on 'The psychosocial and mental health implications of disasters' which is applicable to staff who respond to disasters and major incidents Coping with one's own distress without becoming immobilised Early recognition of risk to self
M6:d:5c	Psychosocial care for responders: c). caring for groups of people	Activities to help team leaders and teams to deal with and reduce the impact of primary and secondary stressors on the emotional wellbeing, psychosocial needs and mental health of responders (See also Topics 35 – 42)	The nature of psychosocial resilience: developing and sustaining teams' collective psychosocial resilience Leadership and observation of teams Daily briefings/debriefings Imposition and maintenance of routines including those for: Sleep and rest periods Alcohol/drug misuse avoidance Recreation Links with home for all team members	Cross-refer to the section on 'The psychosocial and mental health implications of disasters' which is applicable to staff who respond to disasters and major incidents Importance and role of leadership but also the skills of being led