



Course Title	IMT3 Simulation	Scenario Title	Fever in returning traveller - Infection control and bed management
Patient	Name: Sam Campbell Age: 43		

Learning	Technical	Non-Technical
Outcomes	- Infectious Disease history taking	- Use cognitive aids -
Outcomes	- Knowledge of suspected viral	- Know the environment – infection
	haemorrhagic fever, and PPE	control measures, bed
	measures	management
	- VHF risk assessment criteria	- Anticipate and plan
		- Mobilise all available resources
Scenario Overview	The patient is a 43 year old patient who he patient is a difficult historian but has feature from a high risk area. The scenario will a patient with a suspected viral haemorrha health measures including risk stratification. This scenario requires a minimum of 2 fat be console/ phone advice if required), and	ures of unexplained mucosal bleeding llow candidates to take a history in a gic fever (VHF), and to think about wider on, PPE and isolation. culty members: patient voice (can also
Set Up	Urgent care centre referral to medical tak	xe
	Manikin (or faculty can play as actor)	
	Adult Bed/trolley/chair all fine	
	Monitoring not on	
Prop List	Oxygen mask and tubing BP cuff Monitor Blood results	
	Guidelines: link to: https://www.gov.uk/government/publication	S S

Console		Α	В	С	D
	RR	22			
	SpO ₂	93			
	HR	108			
	BP	102/58			
	Rhythm	SR			
	Temp	37.9			
	Eyes	Slight injection			
		(red)			
	Other	GCS 15/15			
	Other				
	Other				
Expected Actions	Candidates are expected to resuscitate the patient effectively while taking a focused history. This will include: Applying oxygen, gaining IV access – sending bloods, including cultures– note infection control issues. Risk stratification should take place to balance the safety of staff, self and the patient.				





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		Title	control and bed	
Patient	management			
1 allent	atient Name: Sam Campbell Age: 43			
	7 lgc. 40			
End Point	Risk assessment and ID discuss	ion. Ordered nega	ative pressure side room and	
	alerted bed managers.			
Dantiainant	Vou are the IMT2 dector on tell	a and you have h	ann askad to ann a nationt in	
Participant	You are the IMT3 doctor on tak his 40s with low grade fever. The state of the state			
briefing	hospital 2 days ago with antibio			
	care centre have not yet come			
Patient	You work in the military as a civinformation on first asking, but			
Briefing	will be truthful. At first you will o			
	business (Liberia in past 10 day	ys) and be vague	. At first say that you arrived	
	from France (as was in transit t			
	will mention you spent most of	ine pasi monin in	Liberia.	
	Symptoms:			
		•	lays, particularly at night	
	- You have muscle ache		, ,	
	-	- Came to hospital today as noticed bleeding from your gums and nose		
	No real coughNo urinary symptoms			
	- Took malaria prophylaxis intermittently but forgot some doses			
	(Malarone).			
	- Given a penicillin-based antibiotic 2 days ago with no improvement (it			
	was given three times a	a day)		
	Other answers (if asked):			
		and returned 10 o	days ago from Liberia. You did	
			I, but did have ice in drinks. No	
		•	odgy meals and no-one else	
	unwell. Only sexual act	tivity is with wife. I	Did see rats' droppings where	
	, ,	•	o IVDU. Given a penicillin-	
	based antibiotic 2 days	ago with no impr	ovement.	
	In Liberia you visited the capita			
	two. You mainly stayed in hotel years ago. Not tested since.	is. Hiv negative p	resumably as gave blood 3	
Patient PMHx				
	Drug hx: Nil regular			
	Allergies: NKDA			
	Social hx: Work as civilian advito Liberia (transited via France)	•	. Recently travelled for 1 month	
	Family hx: Nil relevant			





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Investigations & results	Bloods: Hb 159, WCC 26 neuts 19, lymphs 3, monocytes 2, eosinophils 0.5, Platelets 102				
	CRP 121 ALT 5135, AST 984 ALP 450				
	Bone profile and	d TFTs pending			
	Na 142 K 4.4 U	r 21 Creat 405, I	NR 2.3, Bil 22 /	Alb 31	
	ABG: pH 7.35 F	CO2 3.2 PO2 8.	2 BE -6.0 Lacta	ate 4.9, Gluc 6.7	
	CXR: Normal lu	ng fields			
	ECG: Sinus rhy	thm			
	Urine dip: Blood	l+, Prot+, White	cells -ve, Nitrite	es -ve, Ketones -v	⁄e
Plant Briefing	sure you want a			vill do as asked. <i>i</i> d. You will accept	
	explanation.	T .	Т_		T_
On	0.1	Α	В	С	D
Examination	Colour				
	Skin	4			
	CRT	4			
	GCS	15			
	Pain Score				
	Abdomen	soft			
	JVP not seen				
Life Savers	anything else ne	eeds sending		ed for the patient	
Telephone Assistance	Medical consultant: The symptoms all sound a bit odd and do not fit with simple sepsis. Suggest discussion with infectious diseases/microbiology team.				
	organ dysfuncti	on (liver and rena	al). Liberia is a	ent has evidence country that has bola) and this mu	endemic cases
		https://www.gov and-guidance-or		t/publications/vira -of-patients	al-haemorrhagic-
		severe sepsis/ma		meantime and to ly even with stror	





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Debriefing	VHF risk assessment criteria – where to look / ask (Department of health algorithm very useful, see appendix) Infection control – PPE, looking after team as well as patient. Ideally the patient should be put in a side room, and the bed manager/ nurse in charge should be made aware. Contacts should be minimised so only one doctor and one nurse should be allocated to the patient. Enhanced PPE should be worn (remember to go to the toilet and be comfortable first before donning all of this!)
	Bed management – Levels of beds, high, monitors, side rooms with ante rooms, positive and negative pressure etc – what available locally
	Knowing environment – infection control and notifying laboratory regarding high risk samples
References	https://www.gov.uk/government/publications/viral-haemorrhagic-fever-algorithm-and-guidance-on-management-of-patients https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-
	guidelines/emergency-medicine/viral-haemorrhagic-fever-vhf-patient-pathway- 2021-paediatric-ed/
	https://www.datadictionary.nhs.uk/attributes/critical_care_level.html
Curriculum	CiP Descriptors (Internal Medicine Curriculum Stage 1):
mapping	 Managing an acute unselected take Managing an acute specialty-related take Managing medical problems in patients in other specialties and special cases Delivering effective resuscitation and managing the deteriorating patient
Written by: Date:	N Murch and edited by Ewan Mackay (Education Fellow) and Benjamin Lindsey (Registrar Infectious Diseases)
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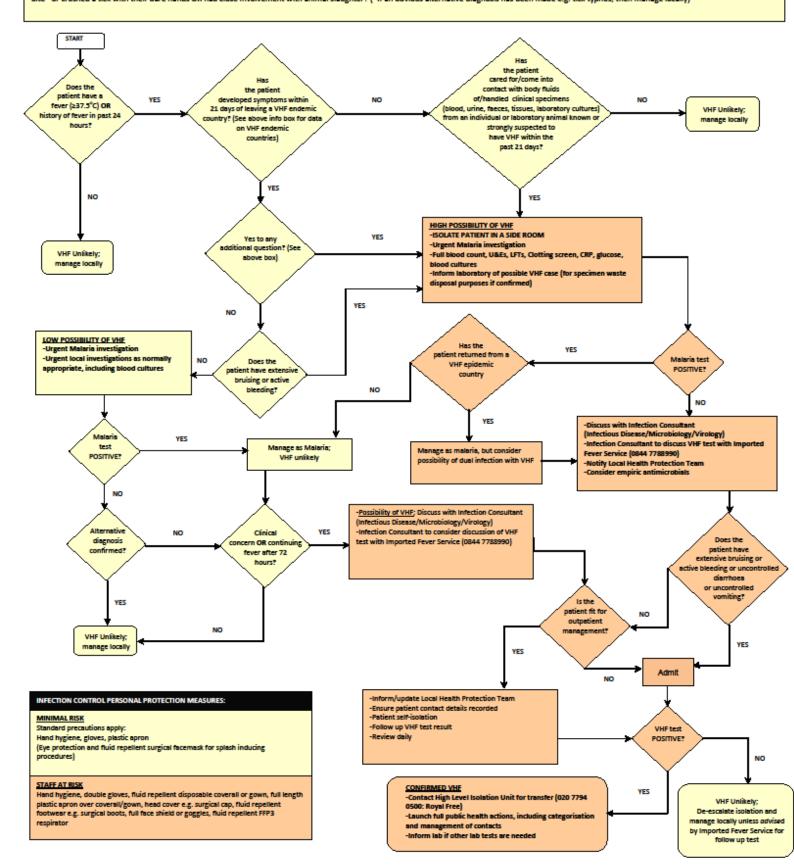
VIRAL HAEMORRHAGIC FEVERS RISK ASSESSMENT (Version 6: 15.11.2015)

VHF ENDEMIC COUNTRIES:

Information on VHF endemic countries can be found at https://www.gov.uk/government/uploads/system/u

ADDITIONAL QUESTIONS:

- -Has the patient travelled to any area where there is a current VHF outbreak? (http://www.gromedmail.ore/) OR
- -Has the patient lived or worked in basic rural conditions in an area where Lassa Fever is endemic? (https://www.cov.uk/lassa-fever-origins-reservoirs-transmission-and-cuidelines) OF
- -Has the patient visited caves / mines, or had contact with or eaten primates, antelopes or bats in a Marburg / Ebola endemic area? (https://www.eov.uk/ebola-and-marbure-haemorrhaeic-fevers-outbreak and-case-locations) OR
- -Has the patient travelled in an area where Crimean-Congo Haemorrhagic Fever is endemic (http://www.who.int/csr/disease/crimean_congoHf/Global_CCHFRisk_20080918.png?ua=1) AND sustained a tick bite* or crushed a tick with their bare hands OR had close involvement with animal slaughter? (*If an obvious alternative diagnosis has been made e.g. tick typhus, then manage locally)



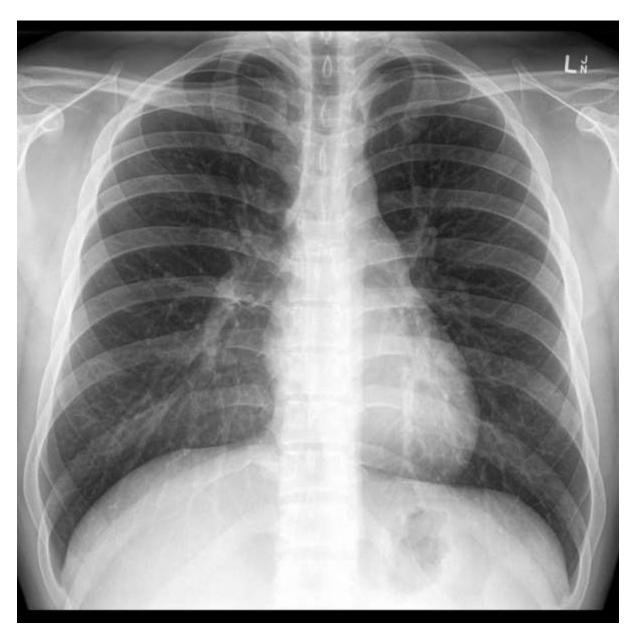


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