Scenario/Key facts	Priority Actions/Critical Steps/Mechanisms of Delivery	Indicators	ECHO Advice
Scenario: A viral haemorrhagic fever (VHF) outbreak can generate a crisis in itself but can also aggravate existing emergencies, as the high risk zones are often in areas affected by on-going crises. Key facts - Haemorrhagic Fever can be caused by a number of viruses including Ebola, Marburg, Rift Valley Fever, CCHF and Dengue Viruses. This table focuses on the first two In particular, Ebola and Marburg viruses (both filoviruses) can cause large epidemics spread from person to person by contact with the blood and body fluids of infected cases: - Countries at higher risk of Ebola or Marburg Haemorrhagic Fever are DRC, Angola, Gabon, Sudan, Kenya, Uganda, Republic of the Congo, Kenya and Zimbabwe - Initial transmission is from animal to human although reservoir/host(s) remain uncertain Viral prodrome is non-specific with haemorrhagic features occurring late in the illness - Initial person—index case—becomes infected from reservoir and then person to person transmission (by contact with blood/body fluids) Initial diagnosis is based on clinical assessment Laboratory diagnosis for viral haemorrhagic fevers is generally done in national and international reference centres, - There is no specific vaccine or treatment for Ebola or Marburg and ribavirine is not recommended - No strategy has proved successful in specific pre-exposure and post-exposure treatment of Ebola or Marburg virus infections in man - Case fatality varies according to viral species, exposure dose and route (30-90%)	Priority Actions/Critical Steps - EWARS in atrisk areas should include suspected VHF Investigation of all alerts with initial control measures as needed Where outbreak is verified, carry out detailed outbreak investigation & epidemiological description (time, person, place) with appropriate sampling and initial measures to reduce transmission - Assessment of risk of spread & risk of severe outcomes (high mortality) - Set up urgent, structured and coordinated task force Set up specific unit/isolation for affected cases to contain transmission and provide care: - Set up barrier nursing procedures & safe waste disposal mechanism Set up procedures and community outreach to avoid intra-family and community spread (e.g. funeral and burial procedures) - Diagnose and manage cases with supportive treatment in isolation unit - Use mobile teams for systematic case finding and contact tracing in the community with transport of suspected cases to isolation facility for diagnosis and care - Strengthen capacity to carry out laboratory diagnosis on site or transport of samples to national or international reference labs Mechanisms of Delivery Community Health and Outreach - Community education and sensitization - Recognition of suspected cases and alert - Contact tracing and follow up Primary Health Care - Case recognition and initial isolation and minimal barrier nursing Referral to isolation facility - Safe injection practices and medical waste disposal Liaison with mobile teams for case finding and contact tracing Secondary Health Care - Isolation facilities - Recognition of suspected VHFs in patients admitted with "other" diagnoses - Processing and shipping of laboratory samples Health supplies and infrastructure - Personal protective equipment - Safe burial equipment - Drugs and fluids for supportive care to patients	- Task force in place (Y/N) - Number of suspected cases/deaths per district - Number of confirmed cases/deaths per district - Number of contacts identified (total and per week) - Number of contacts followed for 21 days - % of contacts lost to follow up - Number of isolation units established - Number of admissions per isolation unit - Case fatality ratio - Barrier nursing equipment available - Health personnel trained in barrier nursing	See decision tree Ensure safe barrier nursing in properly equipped isolation unit Ensure training included in project for health care workers Consider adding support to local initiatives via larger international effective operational partners.