

Protecting and improving the nation's health

Global high consequence infectious disease events Monthly update

November 2019

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Introduction

This monthly report provides detailed updates on known high consequence infectious disease (HCID) events around the world.

This report details all the HCID pathogens that are covered during epidemic intelligence activities. The report is divided into two sections. The first contains contact and airborne HCIDs that have been specified for the HCID Programme by NHS England. The second section contains additional HCIDs that are important for situational awareness.

Each section consists of two tables of known pathogens and includes descriptions of recent events. A third table will be included in the second section when undiagnosed disease events occur that could be interpreted as potential HCIDs.

Likelihood assessment

Included for each disease is a 'likelihood assessment'; the likelihood of a case occurring in the UK, based on past UK experience and the global occurrence of travel-associated cases. There are three categories currently – LOW, VERY LOW and EXCEPTIONALLY LOW. This assessment is as of January 2019.

When considering clinical history, it is important to remember that cases can and do occur outside of the usual distribution area. It is not possible to assess accurately the risk of cases presenting to healthcare providers in England, but taken together it is inevitable that occasional imported cases will be seen.

Events found during routine scanning activities that occur in endemic areas will briefly be noted in the report. Active surveillance, other than daily epidemic intelligence activities, of events in endemic areas will not be conducted (eg, actively searching government websites or other sources for data on case numbers).

The target audience for this report is any healthcare professional who may be involved in HCID identification.

Section 1. Incidents of significance of primary HCIDs

• Ebola virus disease – outbreak in North Kivu and Ituri provinces, Democratic Republic of the Congo (DRC)

	Contact HCIDs			
Infectious disease	Geographical risk areas	Source(s) and route of	UK experience to	Likelihood
		infection	date	assessment
Crimean-Congo haemorrhagic fever (CCHF)	Local media also rep in Pakistan, media re Senegal reported or	reported 5 cases for Septem ported further cases in Novem	ber	LOW - Rarely reported in travellers (23 cases in world literature)
Ebola virus disease	Sporadic outbreaks in Western, Central and Eastern Africa	 Contact/consumption of infected animal tissue (eg bushmeat) Contact with infected human blood or body fluids 	4 confirmed cases (1 lab-acquired in UK in 1976; 3 HCWs associated with West African epidemic 2014-15)	VERY LOW - Other than during the West Africa outbreak, exported cases are extremely rare

	Ongoing outbreak:			
	The Ebola outbreak in the	ne DRC continues, with furthe	er reductions in intensity of	of transmission.
	During November, 39 confirmed cases were reported, compared to 76 in October. This was the			
	lowest monthly total sind	ce the declaration of the outbr	eak in August 2018. As o	of 30 November, a
	total of 3.313 confirmed	and probable cases had beer	n reported across 29 hea	Ith zones in North
	·	ru provinces. The number of h	•	
	·	rity and operational challenge	. •	
		cess for response teams. Viol		
	· ·	four Ebola response workers.	•	mise delivities
	resulted in the death of	iodi Ebola response wonters.		
	The risk for the UK popu	ulation has not changed and is	s currently assessed as r	negligible-very low.
	Endemic in sub-Saharan	- Contact with excreta, or	14 cases since 1971,	LOW - Overall it is the
	West Africa	materials contaminated	all ex-West Africa	most common imported
		with excreta of infected		VHF but still rare (global
		rodent		total 35 reported since
		- Inhalation of aerosols of		1969)
		excreta of infected rodent		
		- Contact with infected		
		human blood or body		
		fluids		
Lassa fever	Recent cases/outbreaks:			
Lassa icvci			December 2019, mostly f	rom Edo and Ondo
	 Nigeria - 39 confirmed cases in the 4 weeks to 1 December 2019, mostly from Edo and Ondo states. As of 1 December, 793 cases had been confirmed in 2019. Weekly case numbers 			
		el since week 15 (April)	onininica in 2015. Weekly	case numbers
		Liberia had reported 169 sus	nacted cases of which 1	6 word confirmed
		-	•	o were commined.
		of 39 cases (11 confirmed), sir		uirod during curgical
		ere confirmed in the Netherlar		
	i i	hospital in Sierra Leone . As p		
		cases (both fatal) and four ad	•	·
	suspected) among h	ealthcare workers in the same	e nospital. Contact tracin	g activities, which

	included identification and monitoring of other workers at the same hospital, were carried out in				
	the Netherlands, the UK, Sierra Leone, Germany, Denmark, Uganda and India. Some high risk				
	contacts were medically evacuated to Europe				
	Sporadic outbreaks in	- Contact with infected	No known cases in	VERY LOW - 5 travel	
	Central and Eastern	blood or body fluids	UK	related cases in the	
Marburg virus	Africa world literature				
disease	Recent cases/outbreaks:				
	 no cases reported since November 2017 				

	Airborne HCIDs			
Infectious disease	Geographical risk areas	Source(s) and route of	UK experience to	Likelihood assessment
		infection	date	
	All human infections	- Close contact with	No known cases in UK	VERY LOW (PHE Risk
	acquired in China	infected birds or their		Assessment)
		environments		
Influenza A(H7N9)		- Close contact with		
virus (Asian		infected humans (no		
lineage)		sustained human-human		
inicage)		transmission)		
	Recent cases/outbreaks:			
	 no confirmed or susp 	ected human cases of H7N9	were reported in Novemb	per
			T	
	Human cases	- Close contact with	No known cases in UK	VERY LOW (PHE Risk
	predominantly in SE Asia,	infected birds or their		Assessment)
	but also Egypt, Iraq,	environments		
	Pakistan, Turkey, Nigeria.	- Close contact with		
Influenza A(H5N1)	Highly pathogenic H5N1 in	infected humans (no		
virus	birds much more	sustained human-human		
	widespread, including UK	transmission)		
	Recent cases/outbreaks:			
	 no confirmed or susp 	ected human cases of H5N1	were reported in Novemb	per
	The Arabian Peninsula -	- Airborne particles	5 cases in total; 3	VERY LOW (PHE Risk
Middle Feet	Yemen, Qatar, Oman,	- Direct contact with	imported cases (2012,	Assessment)
Middle East	Bahrain, Kuwait, Saudi	contaminated environment	2013 and 2018); 2	,
respiratory (MEDS)	Arabia and United Arab	- Direct contact with	secondary cases in	
syndrome (MERS)	Emirates	camels	close family members	
			of 2 nd case; 3 deaths	

	Recent cases/outbreaks: 12 cases, including 4 deaths, were reported in Saudi Arabia during November, bringing the total reported here during 2019 to 201, and the global total to 2,494 cases with 858 associated deaths				
Monkey pox	West and Central Africa	- Close contact with infected animal or human - Indirect contact with contaminated material eg bed linen	3 cases in total; 2 imported (Sept 2018) and 1 nosocomial transmission	VERY LOW - Reported outside Africa for the first time in 2018 (2 in UK and 1 in Israel)	
	increase of 474 case	mber, 4,848 suspected cases es since last month's summar uspected cases in November	ту	•	

Nipah virus	Outbreaks in Bangladesh and India; SE Asia at risk Recent cases/outbreaks: no confirmed or susp	- Direct or indirect exposure to infected bats; consumption of contaminated raw date palm sap - Close contact with infected pigs or humans ected cases were reported in	No known cases in UK November	EXCEPTIONALLY LOW - No travel related infections in the literature
Pneumonic plague (<i>Yersinia</i> pestis)	'	- Flea bites - Close contact with infected animals - Contact with human cases of pneumonic plague cases of pneumonic plague, fases were transferred to Beiji	•	•
Severe acute respiratory syndrome (SARS)	Currently none; two outbreaks originating from China 2002 and 2004 Recent cases/outbreaks: • no confirmed or susp	- Airborne particles - Direct contact with contaminated environment ected human cases reported	4 cases related to 2002 outbreak since 2004	EXCEPTIONALLY LOW - Not reported since 2004

Section 2. Incidents of significance of additional HCIDs

		Contact HCIDs		
Infectious disease	Geographical risk areas	Source(s) and route of infection	UK experience to date	Likelihood assessment
Argentine haemorrhagic fever (Junin virus)	Argentina (central). Limited to the provinces of Buenos Aires, Cordoba, Santa Fe, Entre Rios and La Pampa Recent cases/outbreaks:	 Direct contact with infected rodents Inhalation of infectious rodent fluids and excreta Person-to-person transmission has been documented 	No known cases in UK	EXCEPTIONALLY LOW - Travel related cases have never been reported
		rrhagic fever data were pul	blished in November.	
Bolivian haemorrhagic fever (Machupo virus)	Bolivia - limited to the Department of Beni, municipalities of the provinces Iténez (Magdalena, Baures and Huacaraje) and Mamoré (Puerto Siles, San Joaquín and San Ramón) Recent cases/outbreaks:	 Direct contact with infected rodents Inhalation of infectious rodent fluids and excreta Person-to-person transmission has been documented 	No known cases in UK	EXCEPTIONALLY LOW - Travel related cases have never been reported
		as reported retrospectively	<i>r</i> for October, in La Paz de	epartment.
Lujo virus disease	Single case acquired in Zambia lead to a cluster in South Africa in 2008	- Presumed rodent contact (excreta, or materials contaminated	No known cases in UK	EXCEPTIONALLY LOW – a single travel related case; not

	Recent cases/outbreaks: output no confirmed or suspect	with excreta of infected rodent) - Person to person via body fluids ed human cases reported si	ince 2008	reported anywhere since 2008
Severe fever with thrombocytopenia syndrome (SFTS)	Mainly reported from China (southeastern), Japan and Korea; first ever cases reported in Vietnam and Taiwan in 2019 Recent cases/outbreak:	- Presumed to be tick exposure - Person to person transmission described in household and hospital contacts, via contact with blood/bloodstained body fluids	No known cases in UK	EXCEPTIONALLY LOW - Not known to have occurred in travellers
	in 2019 to 96	e in November (retrospective ever locally-acquired case, blically available data on ca	in the north of the country	·

	Airborne HCIDs			
Infectious disease	Geographical risk areas	Source(s) and route of infection	UK experience to date	Likelihood assessment
Andes virus (Hantavirus)	Chile and southern Argentina Recent cases/outbreaks:	- Rodent contact (excreta, or materials contaminated with excreta of infected rodent - Person to person transmission described in household and hospital contacts	No known cases in UK	VERY LOW - Rare cases in travellers have been reported
	 Chile reported 5 hantavirus cases in November, bringing the total for 2019 to 67 total is higher than expected, given the median for the last 5 years. (Chile no lon specific hantaviruses separately) 			
Influenza A(H5N6) virus	Mostly China (March 2017 new strain in Greece, and subsequently found in Western Europe) Recent cases/outbreaks: • no confirmed or susp	- Close contact with infected birds or their environments ected human cases of H5N6	No known cases were reported in Noveml	VERY LOW - Not known to have occurred in travellers (PHE risk assessment)
Influenza A(H7N7) virus	Sporadic occurrence including Europe and UK	- Close contact with infected birds or their environments - Close contact with infected humans (no	No known cases	VERY LOW - Human cases are rare, and severe disease even rarer

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sustained human-human
transmission)
Recent cases/outbreaks: no confirmed or suspected human cases of H7N7 were reported in November

Undiagnosed Disease Events			
	None reported		