



WISCONSIN STATE LABORATORY OF HYGIENE





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Key Points — H7N9 Middle Eastern Respiratory Syndrome-- MERS- Coronavirus • Virus is *different* than H5N1 avian flu. Background • H7N9 can infect different cell types. • Emerged from the Middle East in 2012. • Does *NOT* cause mortality in chickens. • Virus is *different* than SARS-• H7N9 has NOT acquired all of the Coronavirus. properties for efficient human • Virus reservoir remains unknown. transmission. Transmission dynamics not well • Detection ability of commercial assays Hatchette et al., (2013) Detection of Influenza H7N9: All Molecular understood. Tests are Not Equal. JCM epub 21 Aug 2013 • Limited human transmission · Influenza viruses are constantly changingsuspected. -- Monitoring high public health concern WISCONSIN STATE LABORATORY OF HYGIENE Winctown WISCONSIN STATE LABORATORY OF HYGIENE

Middle Easte Syndrome <u>Current Situat</u>	rn Respira MERS- Cor ion [Sept.	itory onavi 16, 20	rus ^{Sure:} 113]	
Countries	Cases (deaths)			
Saudi Arabia	90 (44)			
UAE	6 (2)			
Qatar	5 (2)			
United Kingdom	3 (2)	Cases	Deaths	
Tunisia	3 (1)	114	54	
Italy	3 (0)		47% CFR	
France	2 (1)			
Jordan	2 (2)			
Source: CDC (2013) Available at: http://www.cdc.gov/coro	navirusimers/laq.html			
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	Name	Manufacturer	# Targets	Targets 510(k) Cleared	VR
Viral Targets	Firmliney Responsiony Panel	Bisters		Viral & Bacterial	2012
	eSensor Respiratory Virus Panel	GenMark Diagnostics	14	Viral only	2012
 Influenza A and B 	uTAG Respiratory Virus Recei		1	Varia Only	2008
	114G Respiratory Virus				
 RSV A and B 	Verigne Respiratory			the control of the co	
 hMPV 	Prodesse ProFiles	Hotogic Genorobe		Viral Only	2008
	Simplena Fluid/8 = RSV	Focus Diagnostics		Viral only	2013
 Parainfluenza viruses 	Quidel Molecular RSV + MMPV	Quidel		Viral Only	2013
 Rhino/Entero Coronaviruses Adenoviruses					















Pathogen	Testing Data requested	Frequency	Confirmatory testing available at WSLH			
PCR Laboratories						
Influenza A/B Respiratory viruses (other than influenza) <i>B. pertussis</i> Other viruses (e.g. VZV)	PCR Laborator # Positive tests and # tests performed VZV)		ONLY send the following: Unable to subtype (InfA Ctc35.0) if you perform routinely Hospitalized (sampling) International travel history Patients with swine contact NEW! No			
Enterovirus*			Yes* *paralysis, death, infants <2, and clusters of cases			





Plan for Laboratory-Based Surveillance for Influenza, 2013-14

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