Biological Agent Reference Sheet (BARS)

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Research Administration

BIOLOGICAL AGENT REFERENCE SHEET

Chlamydia psittaci

Chiamya
ICS
<i>Chlamydia psittaci</i> (also known as <i>Chlamydophila psittaci</i>) is a gram-negative bacterium and a zoonotic agent that commonly infects parrots and many other avian species and it is pathogenic in humans. <i>C. psittaci</i> is a coccoid, obligate intracellular bacteria. There are 16 genotypes of <i>C. psittaci</i> .
Chlamydiae have two forms during the life cycle, the infectious form (elementary form) is small and relatively inert, and the non-infectious form called reticulate body. Chlamydia must be isolated in tissue culture, mice, or chick embryos.
DS
Mammals, including humans, exposed to birds or contaminated environments. Risk groups include bird owners, aviary and pet shop employees, poultry workers, and veterinarians.
Birds are the natural reservoirs of <i>C. psittaci</i> and infection is usually acquired by inhaling dried secretions from infected birds.
In humans, fever, chills, headache, muscle aches, and a dry cough. Pneumonia is often evident on chest x-ray. Infected birds are often asymptomatic.
Unknown
5-19 days
AUTIONS / TREATMENT
None
None
Serologic tests are used for diagnosis and results often need to be confirmed using molecular techniques. Tetracyclines are the treatment of choice.
Psittacosis is a reportable condition in most states.
Report all incidents using PeopleSoft

 LABORATORY HAZARDS

 Laboratory
 Outbreaks of psittacosis in poultry processing plants

 Acquired
 have been reported. The CDC BMBL lists infections by C.

 Infections
 psittaci as one of the ten most frequent laboratory

 acquired bacterial infections.
 Contact with and exposure to infectious aerosols in

 Sources
 Contact with and exposure to infectious aerosols in

 handling, care, or necropsy of naturally or
 experimentally infected birds. C. psittaci may be

 present in feces, tissues, nasal secretions and blood of
 infected birds and in blood, sputum and tissues of

 SUPPLEMENTAL REFERENCES
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	CDC	BMBL 5 th Ed. Accessed September 28, 2017 CDC. Compendium of measures to control Chlamydia psittaci infection among humans (psittacosis) and pet birds (avian chlamydiosis), 1998. MMWR 1998;47 (No. RR-10)- Accessed October 2, 2017
	Public Health Agency of Canada	Pathogen Safety Data Sheet for <i>Chlamydophila psittaci</i> – Accessed October 2, 2017
	Center for Food Security & Public Health- ISU	Psittacosis/ Avian Chlamydiosis- Accessed September 28, 2017
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CONTAINMENT					
BSL3/ABSL3	are recommended for new examination of tissues or be potentially infected wi	vetting feathers of infected			
SPILL PROCEDU	RES				
Small	bench tops and equipmer	PE.			
Large	For assistance, contact En 727-8863), or the EHSO S	nory's Biosafety Officer (404- pill Team (404-727-2888)			
EXPOSURE PRO	CEDURES				
Mucous	Flush eyes, mouth or nose	e for 15 minutes at eyewash			
membrane	station.				
Other Exposures	Wash area with soap and	water for 15 minutes.			
Reporting	Immediately report incident to supervisor, complete an employee incident report using PeopleSoft.				
Medical Follow- up	<u>7am-4pm (OIM)</u> : EUH (404-686-7941) EUHM (404-686-7106) WW (404-728-6431)	<u>After Hours</u> : OIM NP On Call 404-686-5500 PIC# 50464			
üρ	Needle Stick (OIM):	Yerkes: Maureen Thompson			
	EUH (404-686-8587) EUHM (404-686-2352)	Office (404-727-8012) Cell (404-275-0963)			
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VIABILITY	· · · · ·				
VIABILITY Disinfection	EUHM (404-686-2352) Susceptible to quaternary alcohol, 10% freshly prepa	Cell (404-275-0963) ammonium, 70% isopropyl			

	It is expected to be susceptible to heat inactivation at
Inactivation	121°C for a minimum of 15 minutes (moist heat)
Survival Outside Host	<i>C. psittaci</i> elementary bodies (infectious form) can remain infectious in the environment for months. It has been reported to survive for 15 days on dry inanimate surfaces

PERSONAL PROTECTIVE EQUIPMENT (PPE)				
Minimum PPE Requirements	Personnel handling potentially infected birds are required to don two pairs of gloves, closed toed shoes, booties/shoe covers, lab coat, appropriate face and eye protection, and N-95 respirator. Additional PPE may be required depending on lab specific SOPs. Practice strict hand washing technique.			
Additional Precautions	All procedures that may produce aerosols, or involve high concentrations or large volumes should be done in a BSC.			