

VIRAL RESPIRATORY PATHOGENS DURING SUMMER SEASON: SUMMARY SHEET

Agent	Admission keywords (syndrome keyword)	Incubation period	Period of communicability	Transmission	Reportable?
Adenovirus (select serotypes)	Conjunctivitis (OPHT), pharyngitis (RESP), respiratory infection (RESP); pneumonia (PN), hepatitis (HEP) Children: fever / influenza-like illness (ILI)	5-6 days	While infected (+/- symptomatic), can be years	Respiratory droplet, fomites	No*
Coronavirus (ex. MERS-CoV)	"Common cold" / respiratory infection (RESP), pneumonia (PN), croup (CROUP) MERS-CoV: influenza-like illness (ILI), pneumonia (PN), gastroenteritis (GASTRO), kidney failure (ELECT)	2-4 days (MERS-CoV, 2-14 days)	Unknown	Likely respiratory droplet, fomites	No*
Enterovirus/rhinovirus [#]	"Common cold" / respiratory infection (RESP), asthma exacerbation (AST), COPD exacerbation (COPD), croup (CROUP), pneumonia (PN), sinusitis, otitis media	1-9 days	Generally while symptomatic	Aerosol, direct contact	No*
Human metapneumovirus	Children: respiratory infection / pharyngitis (RESP), pneumonia (PN), asthma exacerbation (AST), conjunctivitis (OPHT), rash (DERM), otitis media, diarrhea Adults: "common cold" / pharyngitis (RESP), influenza-like illness (ILI)	4-6 days	Generally while symptomatic	Likely aerosol, respiratory droplet, fomites	No**
Influenza	Influenza-like illness (ILI) Children: gastroenteritis (GASTRO)	1-4 days	1 day prior to symptom onset to 3-7 days after	Respiratory droplet	Yes
Parainfluenza Virus	Children: croup (CROUP), respiratory infection (RESP), pneumonia (PN), otitis media	2-6 days	3-10 days	Respiratory droplet, direct contact, fomites	No
Respiratory syncytial virus	Young children: respiratory infection (RESP), croup (CROUP), pneumonia (PN), otitis media Older children & adults: respiratory infection (RESP), pneumonia (PN)	2-8 days	Generally while symptomatic	Respiratory droplet, direct contact, fomites	No

[#]Enterovirus and rhinoviruses, both picornaviruses, are not often distinguished on lab reports and exhibit similar respiratory symptoms (Tapparel, Emerging Infectious Diseases, May 2009)

*Enteric forms are known to cause gastroenteritis. Diarrhea and/or vomiting may be reportable depending on setting (ex. daycare).

**Rarely causes diarrhea, which may be reportable depending on situation (ex. Long-term care facility, daycare, etc.)

References: (1) CDC (pathogen-specific web pages, Yellow Book) (2) Lessler, Lancet Infect Dis., May 2009; (3) Mandell, Principles and Practice of Infectious Diseases (7e); (4) Public Health Agency of Canada Pathogen Safety Data Sheets & Risk Assessment; (5) Public Health Ontario Laboratory Respiratory Pathogen Surveillance Reports; (6) UpToDate®

BACTERIAL RESPIRATORY PATHOGENS DURING SUMMER SEASON: SUMMARY SHEET

Agent	Admission keywords (syndrome keyword)	Incubation period	Period of communicability	Transmission	Reportable?
Chlamydia pneumoniae	Respiratory infection / pharyngitis (RESP), pneumonia (PN)	3 weeks	Unknown	Respiratory droplet	No
Haemophilus influenzae	Non-typeable: pneumonia (PN), conjunctivitis (OPH), otitis media, sinusitis Hib: respiratory infection (RESP), pneumonia (PN), meningitis (MEN), cellulitis (CELL), chest pain (CAD/CV), bone / joint pain (PAIN)	2-4 days	While present in nasopharynx, ceases 24-48 hours after effective Abx Tx	Respiratory droplet, direct contact	Invasive Hib
Legionella	Legionnaire's disease: pneumonia (PN) Pontiac fever: influenza-like illness (ILI)	Legionnaire's: 2-14 days Pontiac: 5-72 hours	N/A	None	Yes
Mycoplasma pneumoniae	Respiratory infection / pharyngitis (RESP), pneumonia (PN), conjunctivitis (OPH), otitis media	2-3 weeks	2-8 days before symptoms, up to 14 weeks after infection	Respiratory droplet	No
Pertussis	Respiratory infection (RESP)	6-20 days	Highly contagious during first 2 weeks, decreasing over the next 3 weeks; ceases 5 days after effective Abx Tx	Direct contact	Yes
Q fever (Coxiella burnetii)	Influenza-like illness (ILI), pneumonia (PN), hepatitis (HEP), meningitis (MEN), chest pain (CV, CAD), abdominal pain (GN SURG)	2-3 weeks	N/A	None	Yes
Streptococcus pneumoniae	Pneumonia (PN), chest pain (CAD, CV), abdominal pain (GNSURG) arthritis (PAIN), sinusitis, otitis media	1-3 days	Transmission common, infection infrequent	Aerosol	No
Tuberculosis	Pulmonary: pneumonia (PN) Extrapulmonary symptoms & diagnosis dependent on site involved	Variable from 18-24 months to lifetime	Contagious while displaying pulmonary symptoms	Airborne	Yes

References: (1) Burillo, Infect Dis Clin N Am, 2010 (2) CDC (pathogen-specific web pages) (3) Mandell, *Principles and Practice of Infectious Diseases* (7e); (4) Ministry of Health and Long Term Care *OPHS Infectious Disease Protocol* (2013); (5) Public Health Agency of Canada Pathogen Safety Data Sheets & Risk Assessment; (6) Public Health Ontario Monthly Infectious Disease Surveillance Reports; (7) UpToDate®