

Pneumonia Tests Available and Recommended			Date: 2019 04 04											
Test	Specimen	Availability	deadline	TAT	Applications									
	NPS = Nasopharyngeal Swab	16x7d = 0800-2400 x 7 days a week 24x7d = 24 hr 7 days daily weekdays = batch weekly = batched weekdays = stat test on demand	for same day result	NWD = next working day SDoR = same day on request	Community Acquired Pneumonia	Exacerbation COPD	Bronchitis	Bronchiolitis	VAP	Immuno-suppressed lung disease	Suspected TB	chronic cough	URTI	Returned traveller
Standard Bacteria and Fungi														
Gram stain microscopy	sputum, induced spt, BAL	16x7d	22:00		Y	Y	Y		Y	Y	Y	Y		Y
Routine culture	sputum, induced spt, BAL	16x7d	22:00		Y	Y	Y		Y	Y	Y	Y		Y
Blood culture	2 sets at once	24x7d		2-5d	Y				Y					
NPS routine 3 virus FluA/FluB/RSV	Nasopharyngeal swab	daily weekdays	9:00	NWD	Y	Y	Y	Y	Y	Y			Y	Y
NPS virus swab FluA/FluB/RSV GeneXpert®	NPS	16x7d	22:00	2 hr	Y			Y	Y	Y				
NPS extended 21 virus panel incl mycoplasma	NPS	weekdays	12:00						Y	Y				Y
Adenovirus standalone PCR	NPS	weekdays	12:00		Y				Y					
Pertussis PCR	NPS	weekly			Y							Y	Y	
Legionella PCR	sputum, EDTA blood	daily weekdays	12:00	NWD	Y				Y					
Pneumocystis PCR	BAL, induced sputum	daily weekdays	12:00	NWD					Y					
Neonatal C. trachomatis PCR	BAL, conjunctival swab	daily weekdays	12:00	NWD										
C. psittaci PCR	BAL, sputum	sendaway		1 week										
Cryptococcal antigen	BAL, serum		22:00						Y					
Exotic fungi: Histoplasma, Coccidioides	Sputum and serum. Only on consult, needs travel history.	sendaway		3 weeks										Y
Galactomannan	BAL, serum	weekly		BAL: NWD					Y					
Pneumococcal antigen	urine, pleural fluid	16x7d	22:00	2 hr										
Tuberculosis and Nontuberculous mycobacteria														
Acid fast stain	Sputum, BAL	daily weekdays		NWD					Y	Y	Y			
Mycobacterial culture	Sputum, BAL	24x7d		10 - 20d					Y	Y	Y			
First line phenotypic TB sens	positive culture	weekdays		7d from culture pos										
Rifampicin PCR test	positive culture, direct on sputum by arrangement	weekdays		2 hr										
Second line susceptibilities	positive culture	sendaway		2 weeks										
Direct TB PCR for sputum smear pos	Sputum, BAL, biopsies	weekdays		4 hr										
Direct TB PCR for sputum smear neg	Sputum, BAL, biopsies	ID/Resp consult		4 hr						Y				
Special Testing														
SARS, MERS, Avian Influenza PCR	NPS, BAL	urgent sendaway		2d										Y
BAL WBC differential count	BAL	weekdays histo dept		2d								Y		
Intracellular bacteria and quantitative culture	Ventilated patients BAL	16x7d	22:00	4 hr/24hr				Y						
Serology														
Legionella serology	paired sera 2 weeks apart	weekly		3 weeks total										
Pertussis serology PT IgG	single serum	weekly	12:00	SDoR								Y		
Mycoplasma pneumoniae serology igG & IgM	single serum	weekly	12:00	SDoR										

Pneumonia Tests Available and Recommended Waikato Hospital Laboratory April 2019