



COVID-19 and Seasonal Influenza: Interim Guidance for Health Care and Public Health Providers

TESTING

Table 6.2 Overview of Test Types for COVID-19					
	Viral Tests				Antibody (Serology) Test
	RT-PCR Viral Test (Quest)	Rapid NAAT Viral Tests (ID Now)	Rapid Antigen Viral Test (Sofia-2)	Culture	
How is the sample taken?	<ul style="list-style-type: none"> Respiratory specimen (nasal, NP, OP swab) Sputum or saliva 	<ul style="list-style-type: none"> Respiratory specimen (nasal, NP, OP swab) 		<ul style="list-style-type: none"> Respiratory specimen 	<ul style="list-style-type: none"> Finger stick or blood draw
What does it test?	<ul style="list-style-type: none"> Diagnose active COVID-19 infection by detecting viral genetic material (RNA) 		<ul style="list-style-type: none"> Diagnose COVID-19 infection by detecting viral proteins 	<ul style="list-style-type: none"> Detects live virus capable of growing in vitro 	<ul style="list-style-type: none"> Detects the presence of antibodies (proteins made in response to infections) in blood
How are the results used?	<ul style="list-style-type: none"> Identify people with active SARS-CoV-2 infection in order to minimize transmission through isolation and provide medical monitoring See Table 6.3 for applications in symptomatic and asymptomatic persons 			<ul style="list-style-type: none"> Identify patients with repeat positive RT-PCR results who are infectious 	<ul style="list-style-type: none"> Shows past COVID-19 infection Should not be used at this time to determine if an individual is immune or protected from reinfection
Where is the test performed?	<ul style="list-style-type: none"> In a laboratory setting 	<ul style="list-style-type: none"> At or near the POC 		<ul style="list-style-type: none"> In a public health biosafety lab 	<ul style="list-style-type: none"> Some are performed in a laboratory; others are performed as POC
What are the performance characteristics?	<ul style="list-style-type: none"> RT-PCR tests are highly sensitive and specific Sensitivity >90% Specificity >99% 	<ul style="list-style-type: none"> Rapid tests are generally less sensitive and more likely to miss a current infection than laboratory-based tests Specificity of rapid tests is comparable to that of laboratory-based tests 		<ul style="list-style-type: none"> Highly specific Less sensitive compared with RT-PCR 	<ul style="list-style-type: none"> Sensitivity and specificity vary based on the specific test No antibody tests can indicate current infection
How long does it take to get results?	<ul style="list-style-type: none"> 1 to 3 days 	<ul style="list-style-type: none"> 15 minutes for most rapid tests 		<ul style="list-style-type: none"> Days to weeks Results are not intended for clinical decision-making 	<ul style="list-style-type: none"> Minutes, up to 3 days if performed in a laboratory

NAAT = Nucleic Acid Amplification Test NP = Nasopharyngeal OP = Oropharyngeal POC = Point of Care

Excerpted from the Testing section of the CCHCS Interim Guidance for Health Care and Public Health Providers: <https://cchcs.ca/covid-19-interim-guidance/>

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