

Covid-19 Rapid antigen test validation

Preliminary results – 1 March 2021



Objective: Validate the diagnostic accuracy of a rapid antigen test compared to RT-PCR

Study population: People coming to CPS' test street regardless of COVID-19 symptoms and with or without close contacts to a confirmed COVID-19 case

Sample: **1,265 people** received 2 NP swabs (1 for Abbott Panbio; 1 for PCR)

Results - using PCR positive cut-off value of Ct value <33:

Group	Prevalence	Sensitivity	Specificity
All (n=1265)	12% (10,13.9)	82.1% (75.1, 87.9)	99.8% (99.4, 100)
Symptomatic (n=492)	23% (19, 26.5)	86.5% (78.7, 92.2)	100% (99, 100)
Asymptomatic (n=759)	5.1% (3.7, 7.0)	69.2% (52.4, 83)	99.7% (99, 100)
Asymptomatic with close contact (n=347)	5.8% (3.6, 8.8)	70% (45.7, 88.1)	99.7% (98.3, 100)
Asymptomatic without close contact (n=328)	4.3% (2.4, 7.1)	57.1% (28.9, 82.3)	99.7% (98.2, 100)



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Including all (n=1265)	Prevalence	Sensitivity	Specificity
Ct <25	8.5% (7.1, 10.2)	98.1% (93.5, 99.9)	98.3% (97.3, 98.9)
Ct <33	12.0% (10.0,13.9)	82.1% (75.1, 87.9)	99.8% (99.4, 100)
Ct <41	14.0% (12.0, 15.9)	71.0% (63.7, 77.6)	99.9% (99.5, 100)

People with the following symptoms had COVID-19 most frequently:

- Loss of taste or smell (52.2% had COVID-19)
- Breathlessness (36.8%)
- Body ache (35.5%)
- Fever (34.7%)
- Cough (29.9%)