Exercise: Covid test





[PERFORMANCE CHARACTERISTICS] Clinical performance

Method		PCR Comparator (nasopharyngeal swab specimen)		Total
COVID-19 Antigen Rapid	Results	Positive	Negative	
Test Kit (Colloidal Gold)	Positive	196	0	196
(saliva specimen)	Negative	7	474	481
	Total	203	474	677

Sensitivity(true positive rate): 96.55% (95% CI, 93.05% ~98.32%)
Specificity(true negative rate): >99% (95% CI, 99.20% ~100.00%)

Accuracy(true positive and negative rate): 98.97% (95% CI, 97.88% ~99.50%)

Limit of Detection: 5×10² TCID₅₀/mL

- Determine the probability of having Covid if you test positive
- Look into the variation of that probability with the base rate
- Determine the probability of not having Covid if you test negative