

311 – Screening Tutorial 2019

Group A:

In a survey, 100 persons were positive to the **reference** test for disease A and 900 were negative. The **screening** test identified 200 persons to be positive. Of these 80 were positive to the reference test.

		Reference test		
		+ve	-ve	Total
Screening test	+ve			
	-ve			
	Total			

1. Calculate **sensitivity, specificity, predictive value positive and predictive value negative** for screening test.

- Sensitivity =
- Specificity =
- Predictive value of +ve test =
- Predictive value of -ve test =

2. Calculate **percentage of false-positive and false-negative**.

- Percentage of false-positive =
- Percentage of false-negative =

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Group B:

A **new** non-invasive test has been developed to diagnose breast cancer. Of 1000 patients; 50% had positive results. Of those who tested positive, a **Biopsy** test yielded 475 with positive results. Of those who tested negative; 50 patients were actually Cancer breast positive when tested against the Biopsy.

		Biopsy		
		+ve	-ve	Total
New test	+ve			
	-ve			
	Total			

1. Calculate **sensitivity, specificity, predictive value positive and predictive value negative** for the new test.

- Sensitivity = -----

- Specificity = -----

- Predictive value of +ve test = -----

- Predictive value of -ve test = -----

2. Calculate **percentage of false-positive and false-negative**.

- Percentage of false-positive = -----

- Percentage of false-negative = -----

