MUNI MED

DIAGNOSTIC TEST ACCURACY

		Disease Status		Total
		Present	Absent	Total
Test Result	Positive	TP	FP	TP + FP
	Negative	FN	TN	TN + FN
	Total	TP + FN	FP + TN	TP + FP + TN + FN

- Sensitivity = TP / (TP + FN)
- **Specificity =** TN / (TN + FP)
- **Positive Predictive Value =** TP / (TP + FP)
- **Negative Predictive Value =** TN / (TN + FN)
- **Overall Accuracy =** (TP + TN) / (TP + FP + TN + FN)

TP = True Positive; FP = False Positive; TN = True Negative; FN = False Negative

MEASURES OF ASSOCIATION

		Outcome Status		
		Present	Absent	Total
		(Cases)	(Controls)	
Exposure Status	Exposed (Treatment)	A	В	A + B
	Non-exposed (Placebo)	C	D	C + D
	Total	A+C	B + D	A + B + C + D

- Absolute Risk = Number of Cases / Number of Cohort Members
- Absolute Risk of Exposed Group = A / (A + B)
- Absolute Risk of Non-exposed Group = C / (C + D)
- **Risk Ratio (also known as Relative Risk) =** Absolute Risk of Exposed / Absolute Risk of Non-exposed = (A / (A + B)) / (C / (C + D))
- Odds Ratio = AD / BC
- Risk Difference (for observational studies) = Absolute Risk of Exposed Absolute Risk of Non-exposed = (A / (A + B)) - (C / (C + D))
- **Risk Difference (for experimental studies) =** Absolute Risk of Non-exposed (control) Absolute Risk of Exposed (treatment) = (C / (C + D)) (A / (A + B))
- Number Needed to Treat (NNT) = 1 / Risk Difference
- **Population Attributable Risk (PAR) =** Risk Difference * Prevalence of Exposure
- **Population Attributable Fraction (PAF) =** PAR / Total Incidence of Outcome