

Valutare un test



- **sensibilità**
- **specificità**
- **valore predittivo**

Test ideale

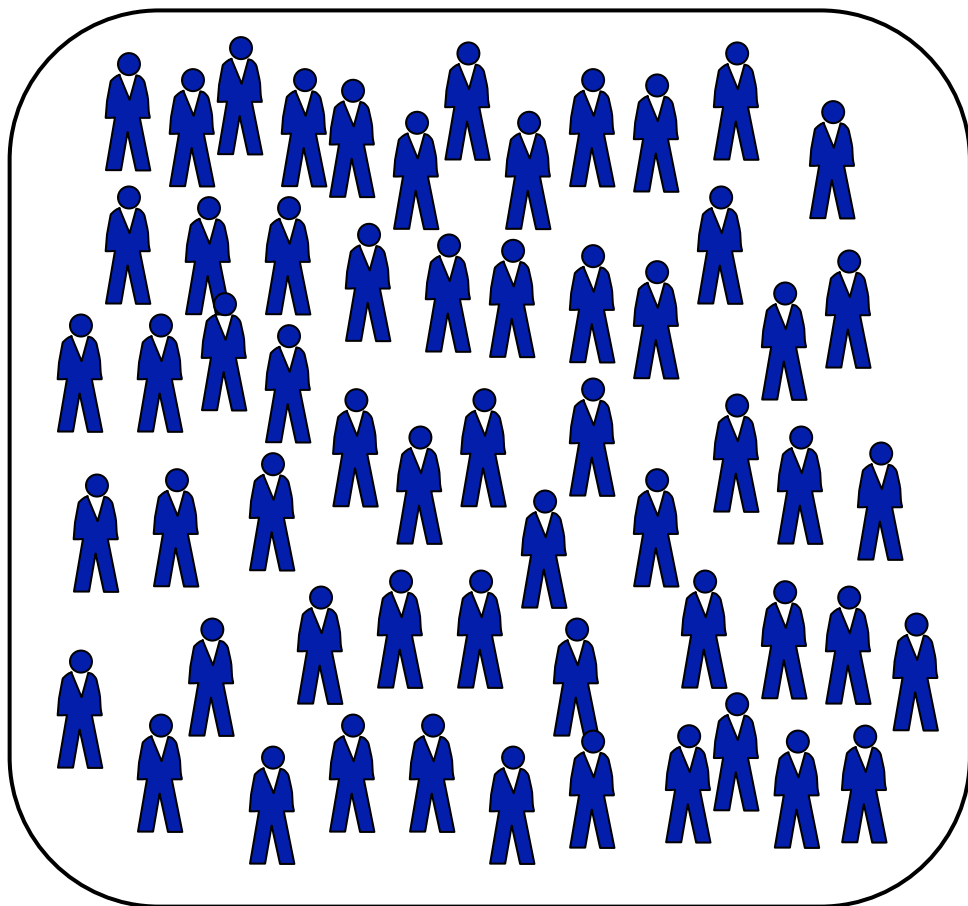


sani

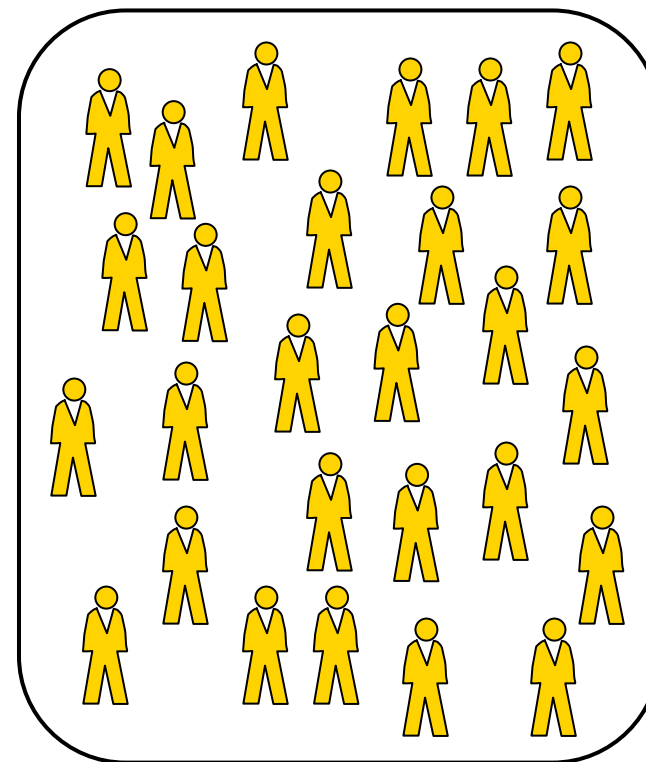


malati

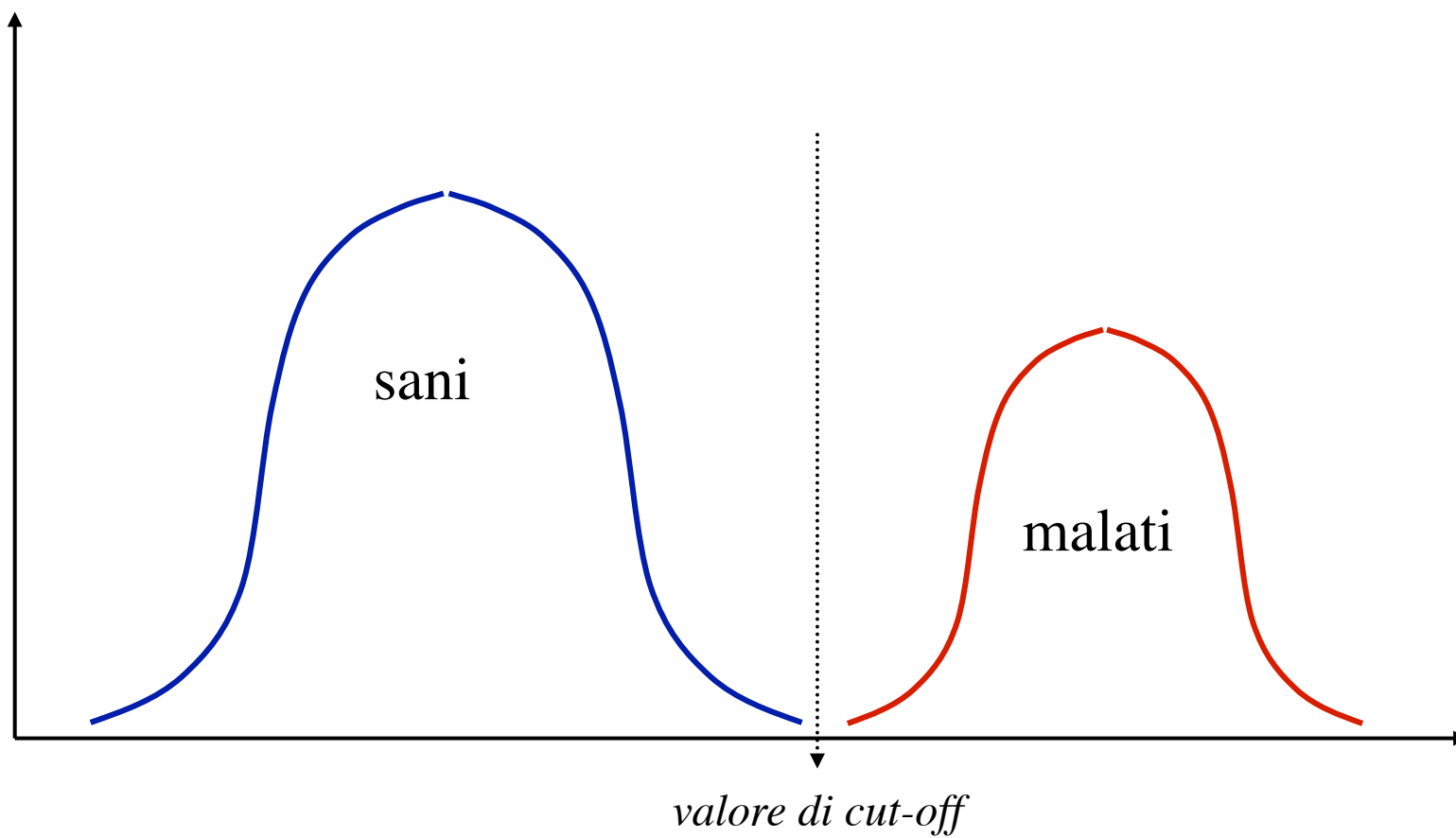
negativi al test



positivi al test



Il test ideale



Test reale...

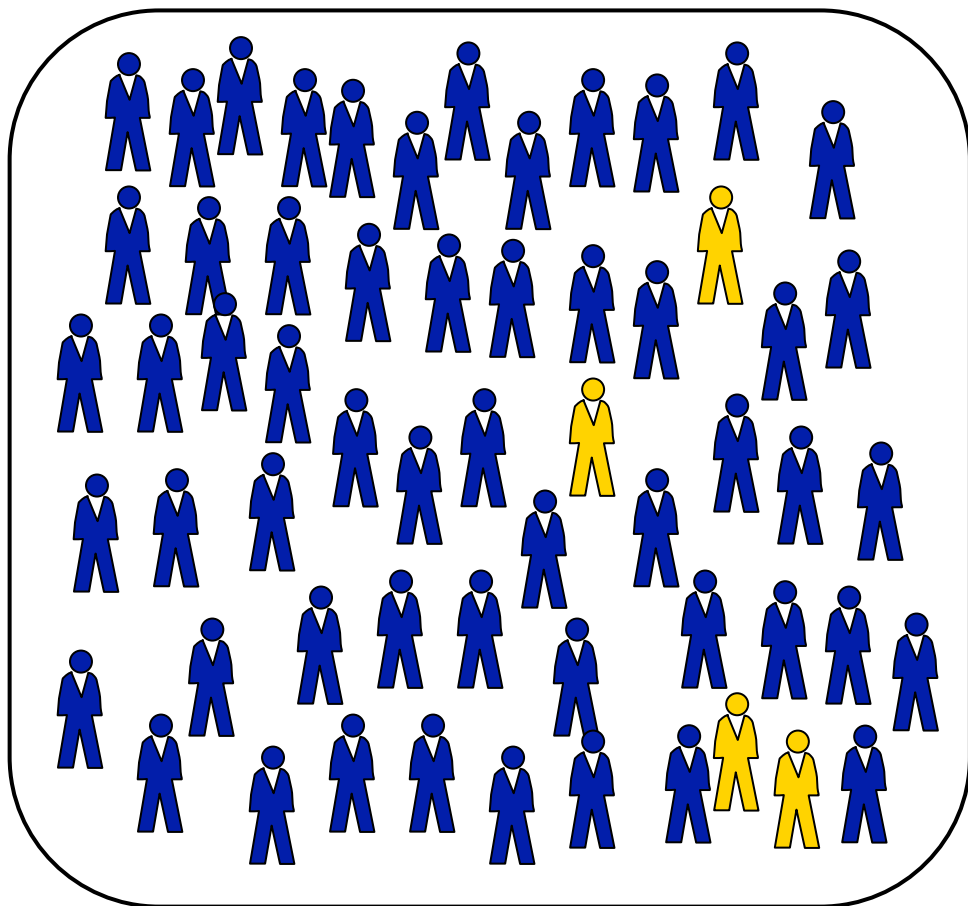


sani

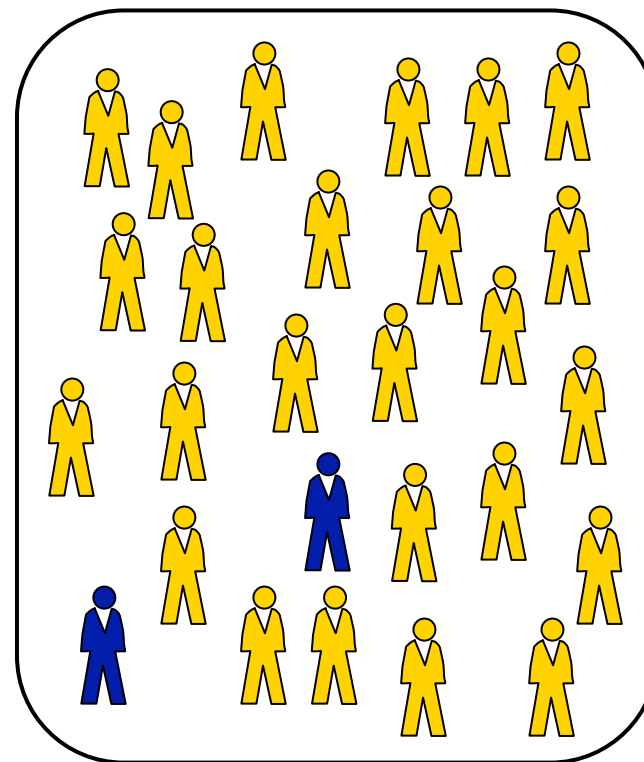


malati

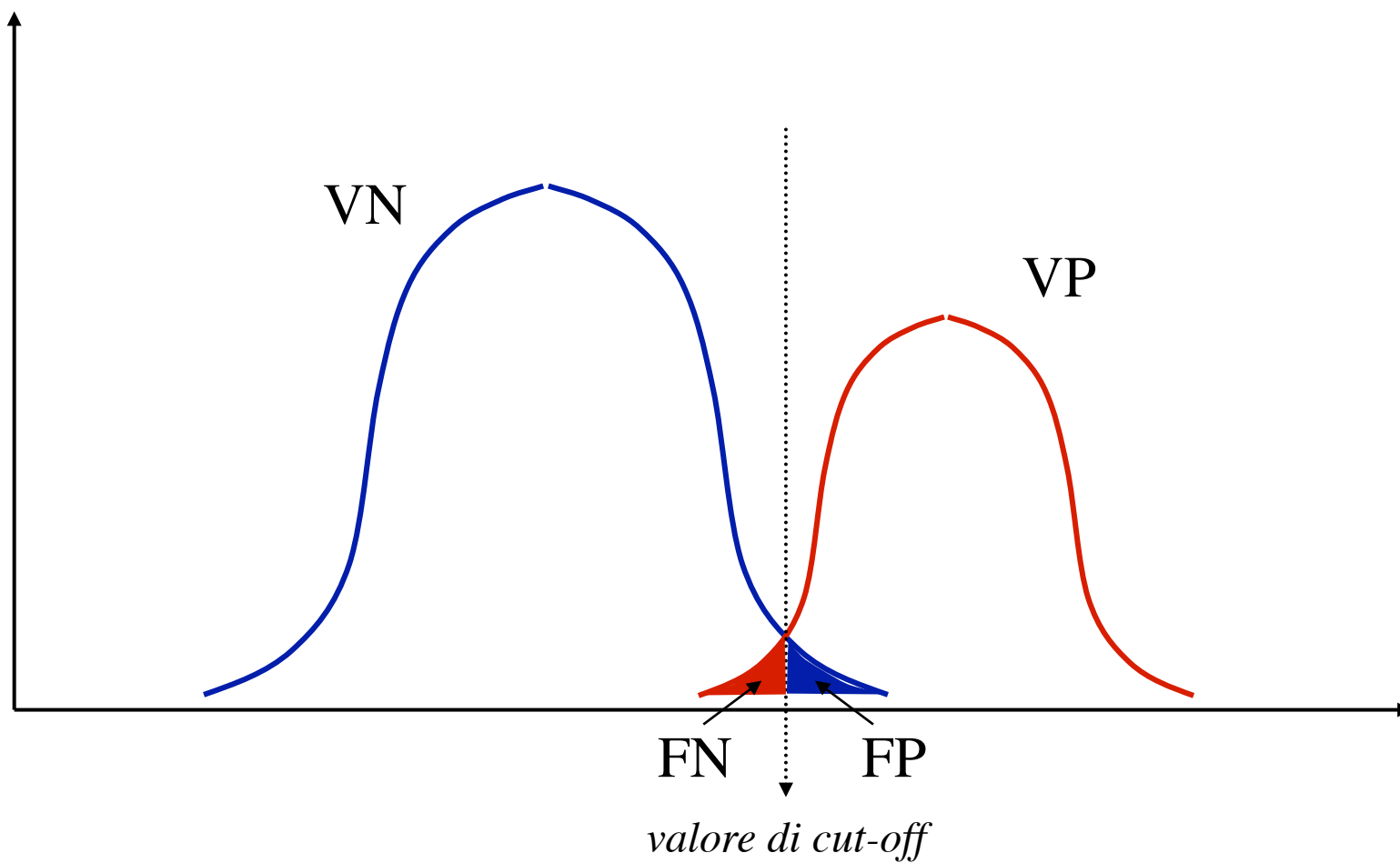
negativi al test



positivi al test



Il test reale...



Distribuzione della popolazione in relazione al test

	M+	M-	
T+	VP	FP	TP
T-	FN	VN	TN
	TM+	TM-	N

Sensibilità

	M+	M-	
T+	VP	FP	TP
T-	FN	VN	TN
	TM+	TM-	N

capacità del test di individuare in una popolazione i soggetti malati

$$\frac{VP}{TM+} = \frac{VP}{VP + FN}$$

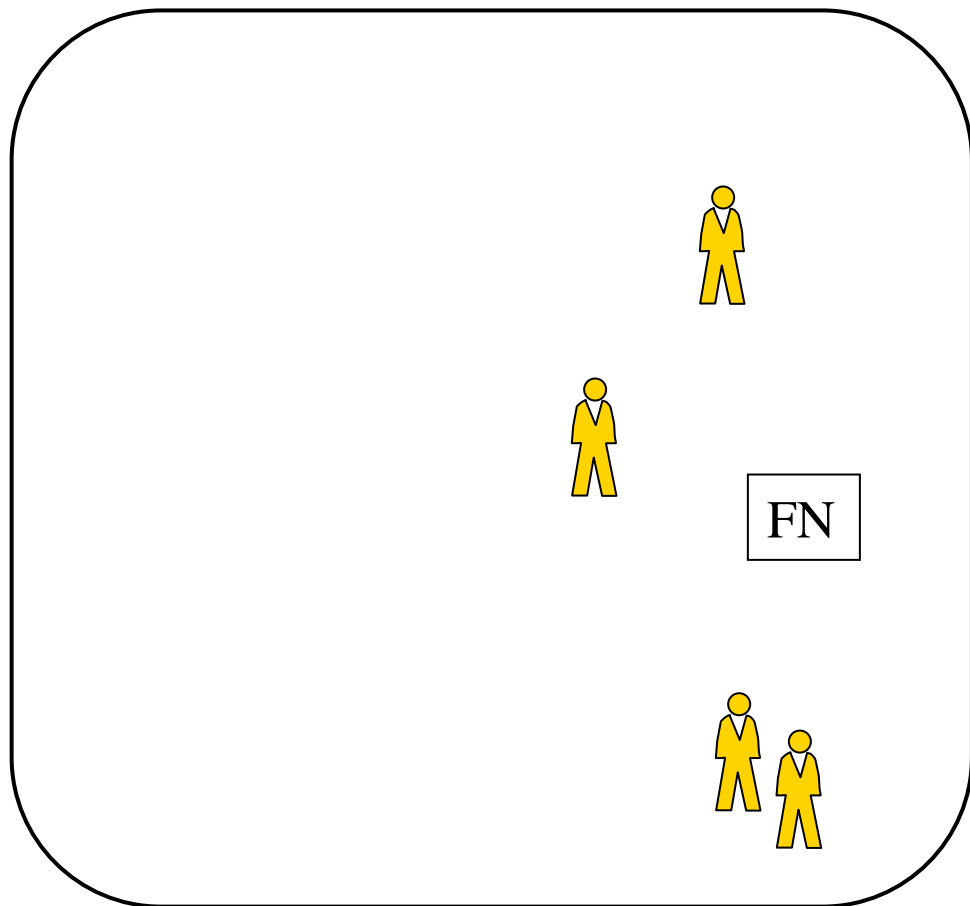
Sensibilità



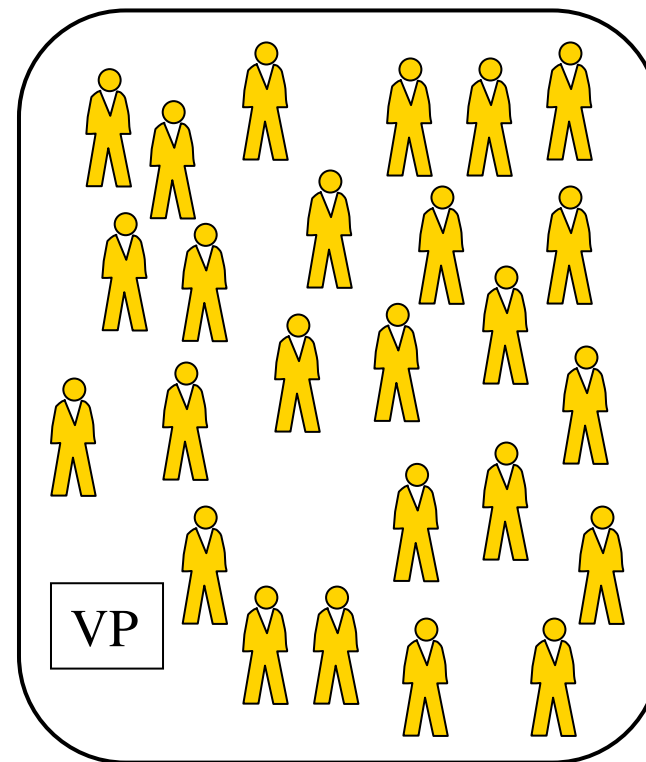
malati

negativi al test

$$25/29 = 86,2\%$$



positivi al test



Specificità

	M+	M-	
T+	VP	FP	TP
T-	FN	VN	TN
	TM+	TM-	N

capacità del test di individuare come negativi i soggetti sani

$$\frac{VN}{TM-} = \frac{VN}{VN + FP}$$

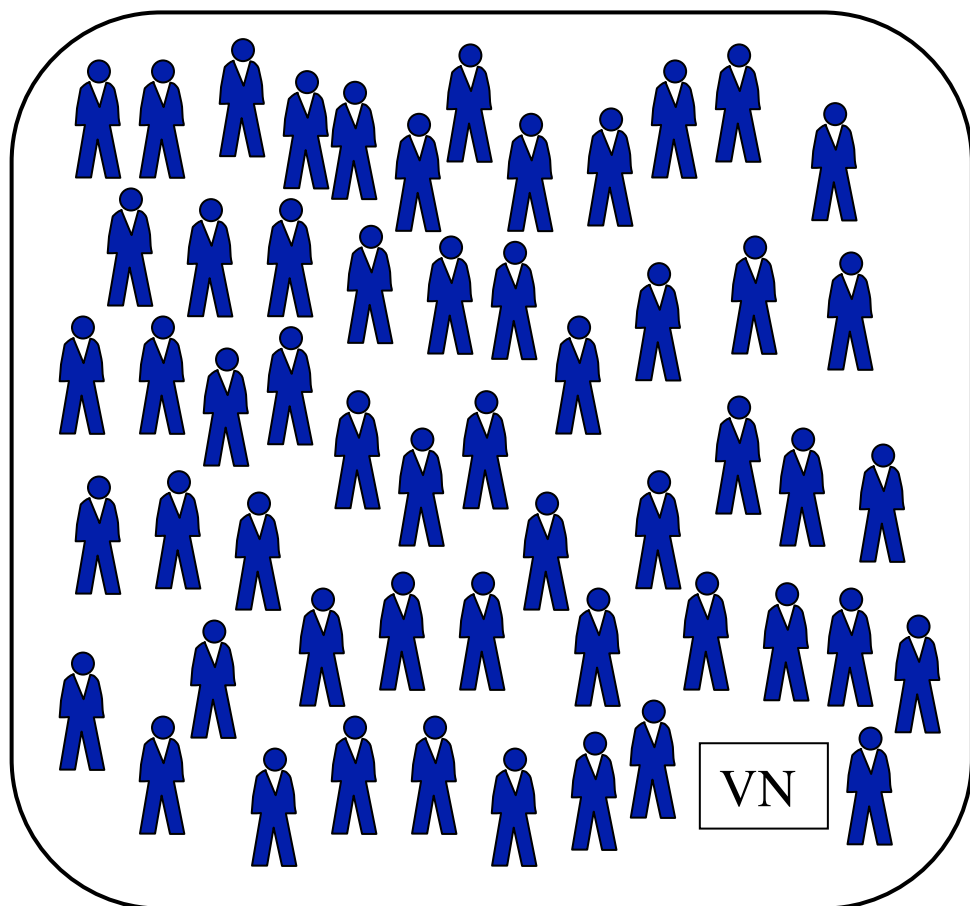
Specificità



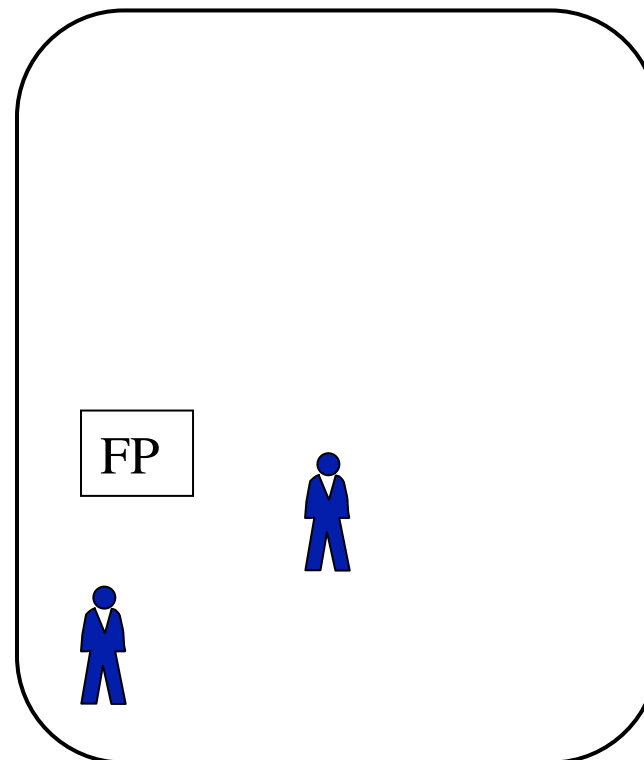
sani

negativi al test

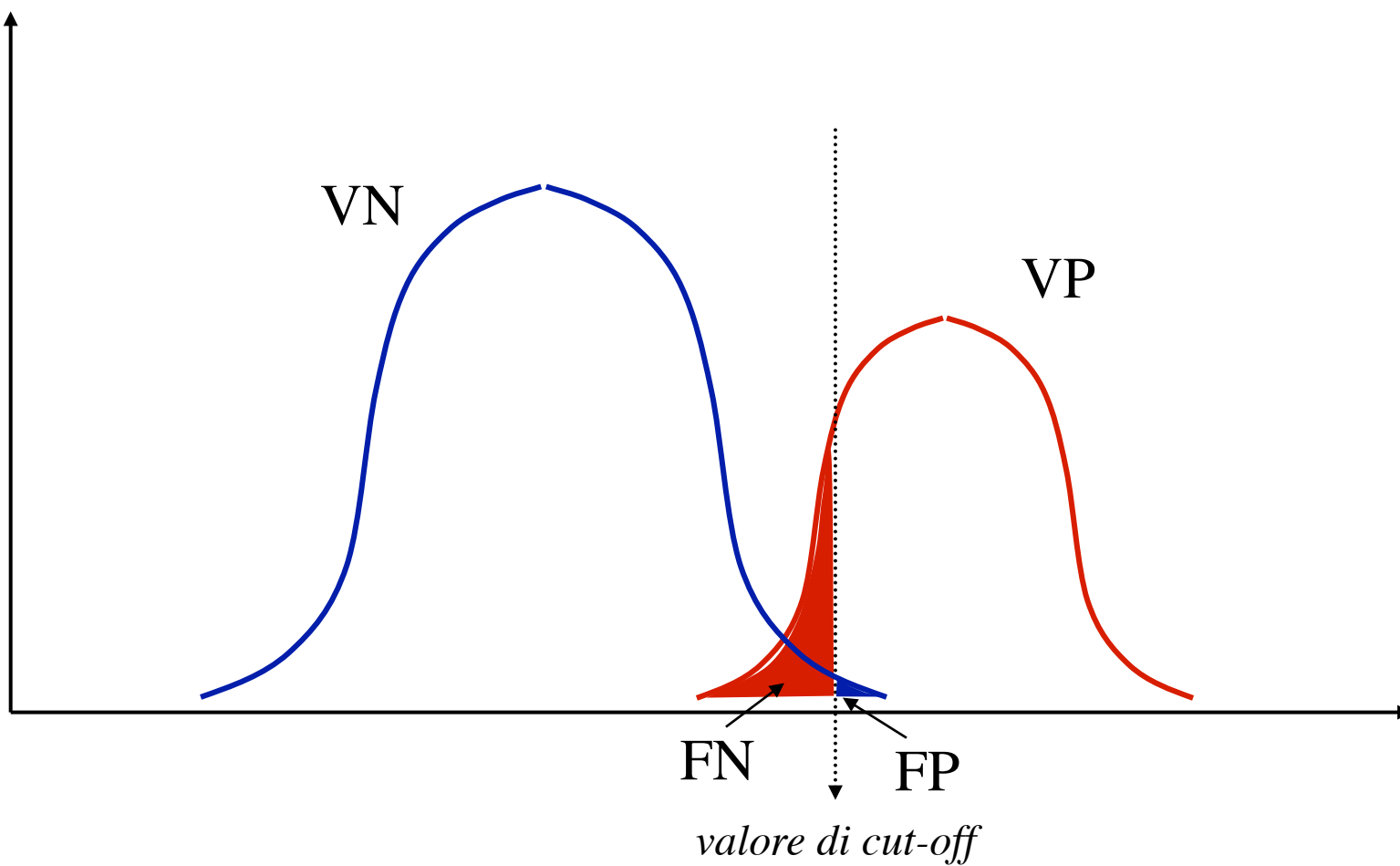
$$55/57 = 96,5\%$$



positivi al test



Aumentando la specificità...



Aumentando la sensibilità...

