

# ROC curves

## Receiver Operating Characteristic Curves

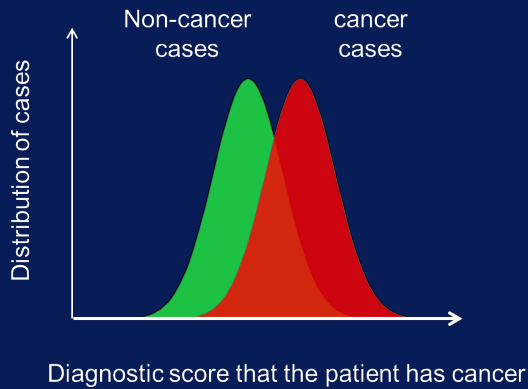
Brandon D. Gallas, PhD

FDA: Food and Drug Administration

CDRH: Center for Devices and Radiological Health

OSEL: Office of Science and Engineering Laboratories

DIDSR: Division of Imaging, Diagnostics and Software Reliability



# ROC curves

## Receiver Operating Characteristic Curves

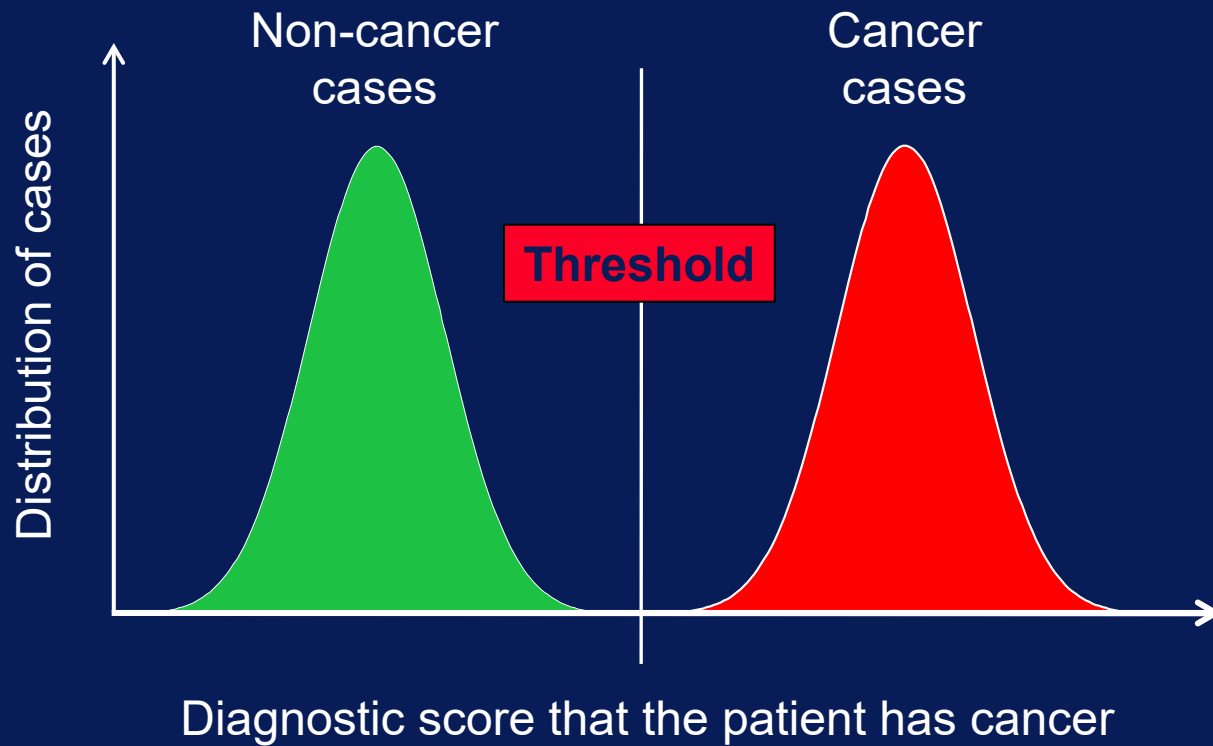
Brandon D. Gallas, PhD

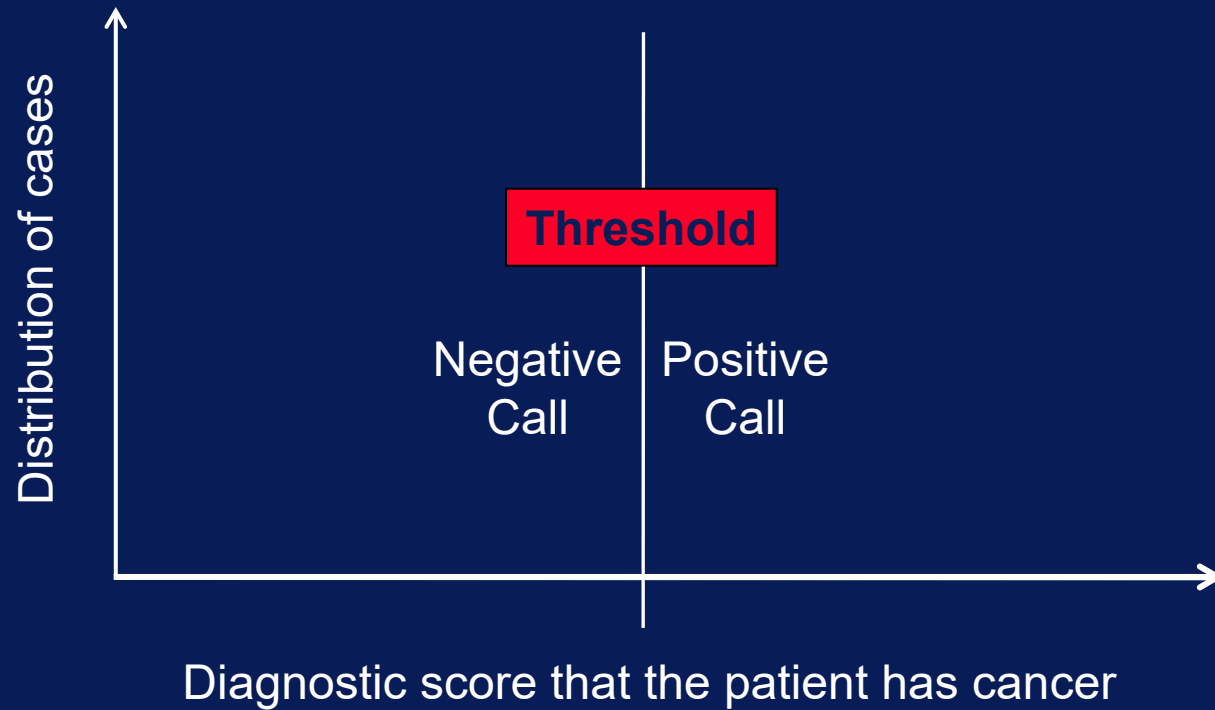
FDA: Food and Drug Administration

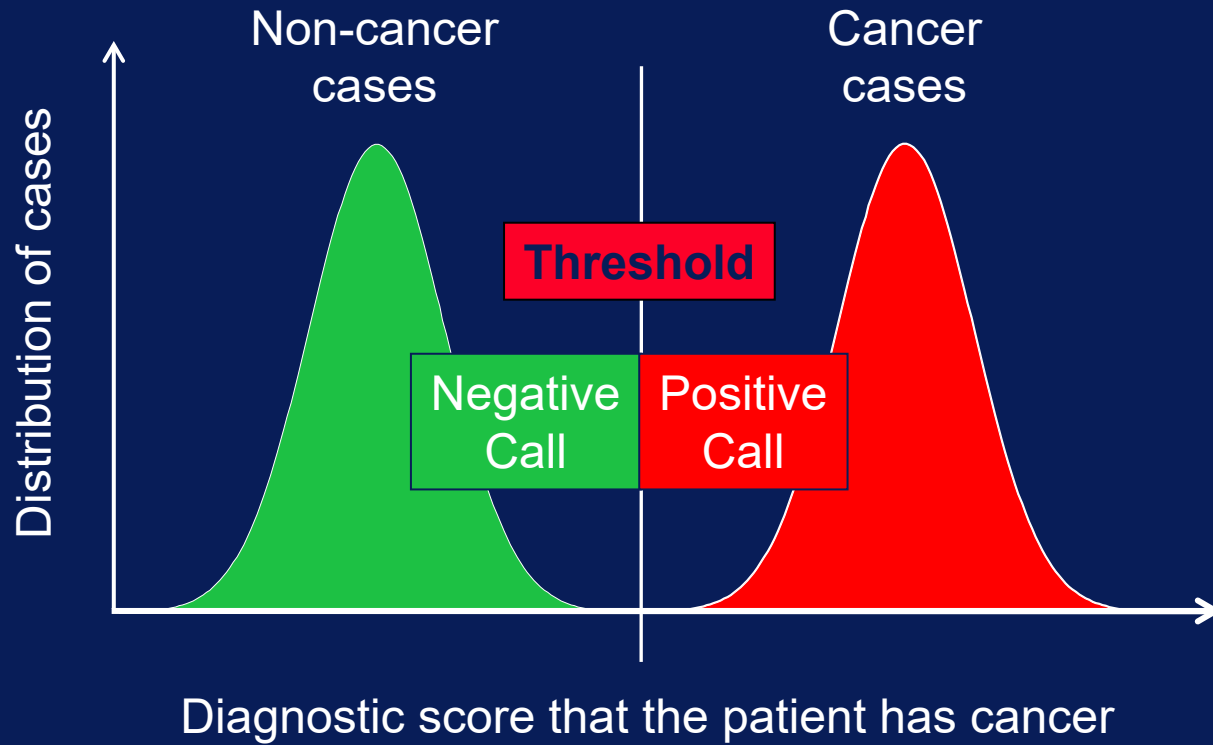
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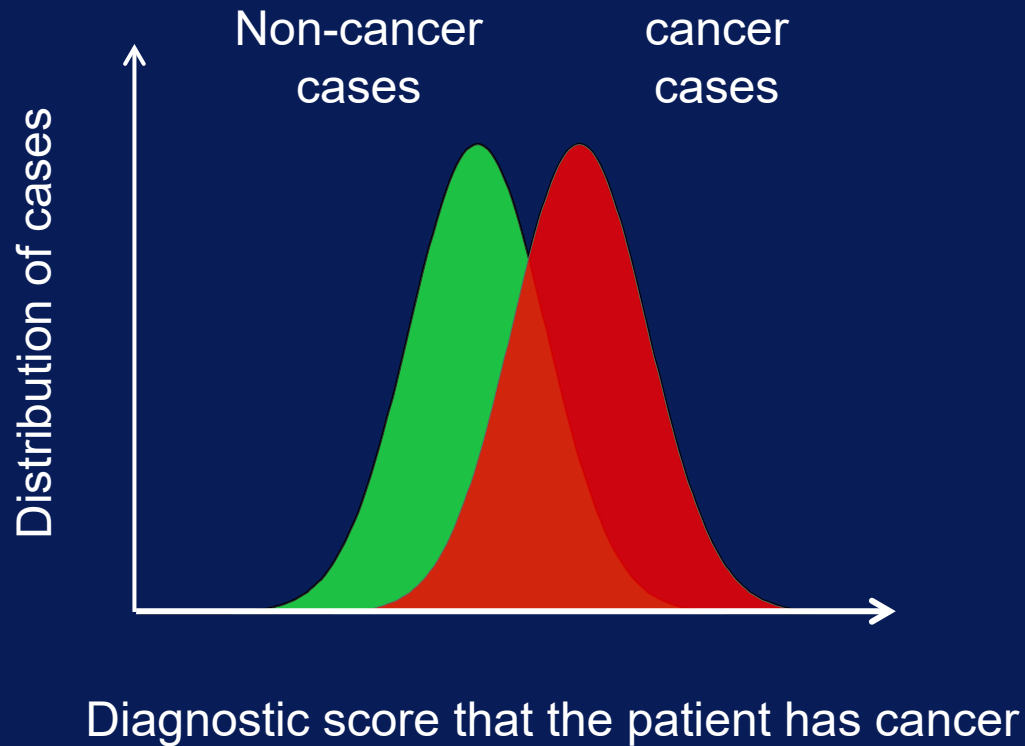
DIDSR: Division of Imaging, Diagnostics and Software Reliability

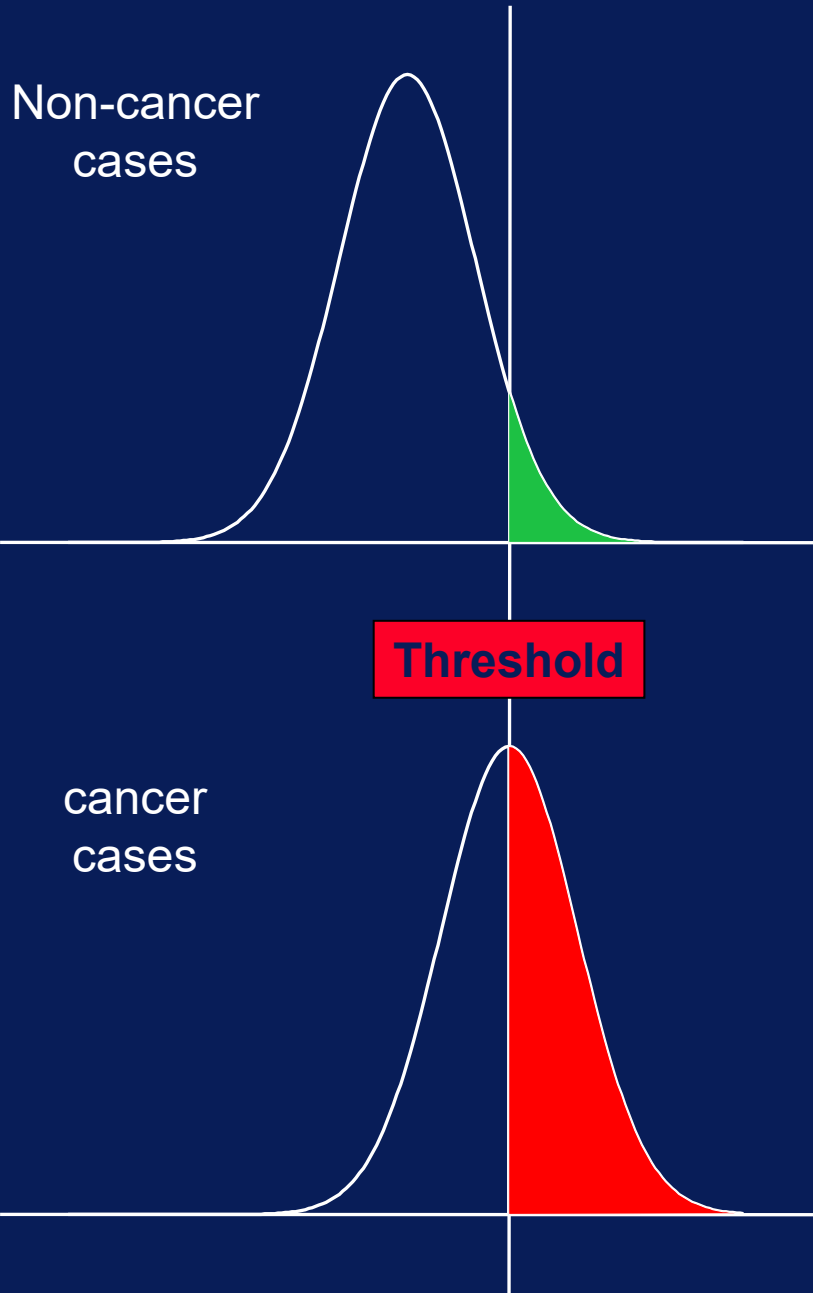




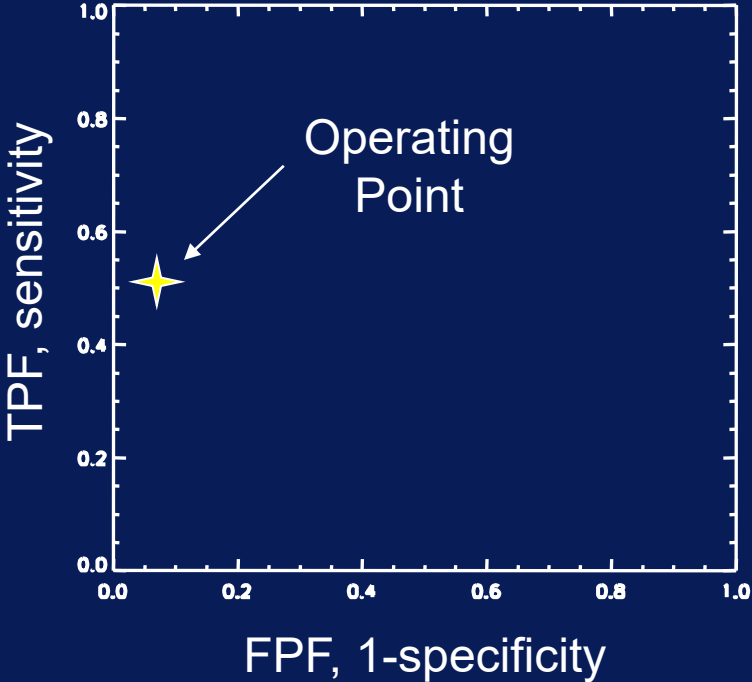


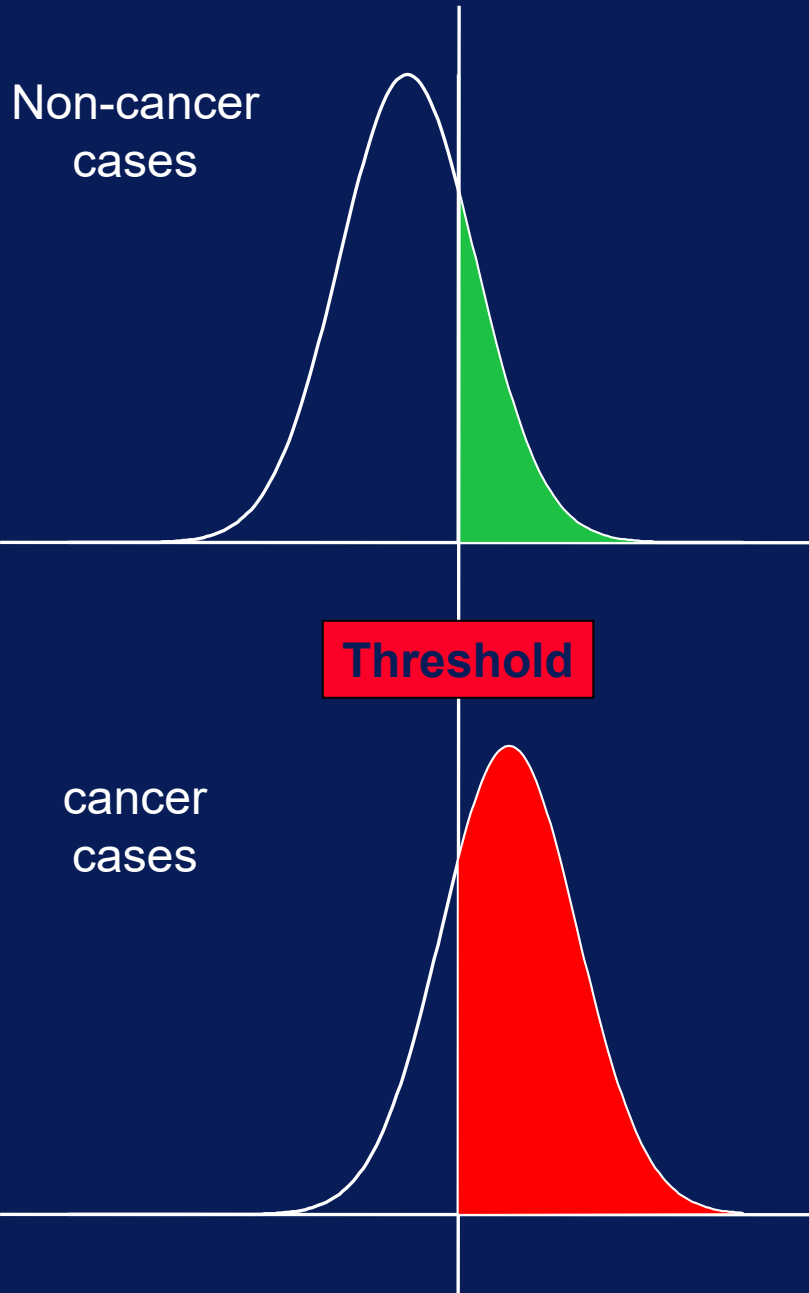
# More typically:



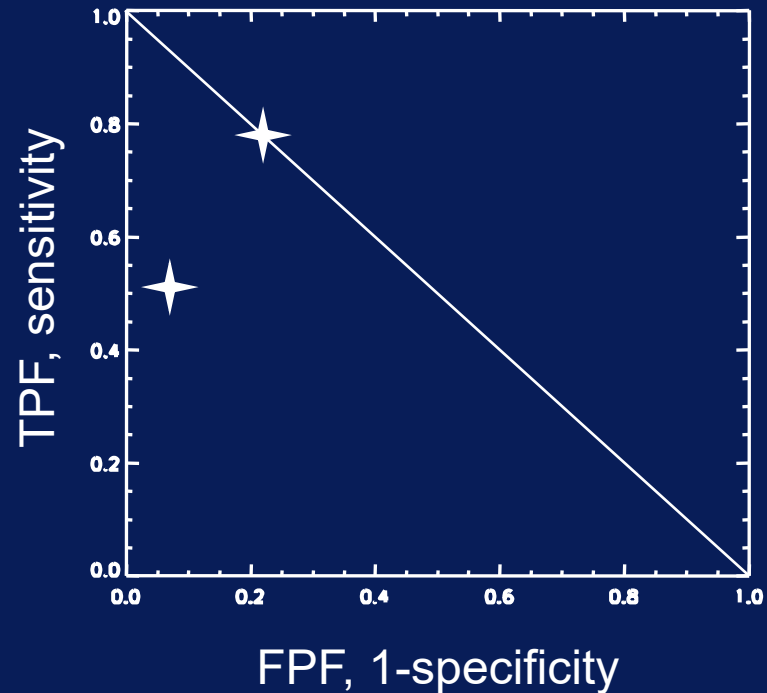


### ROC Space

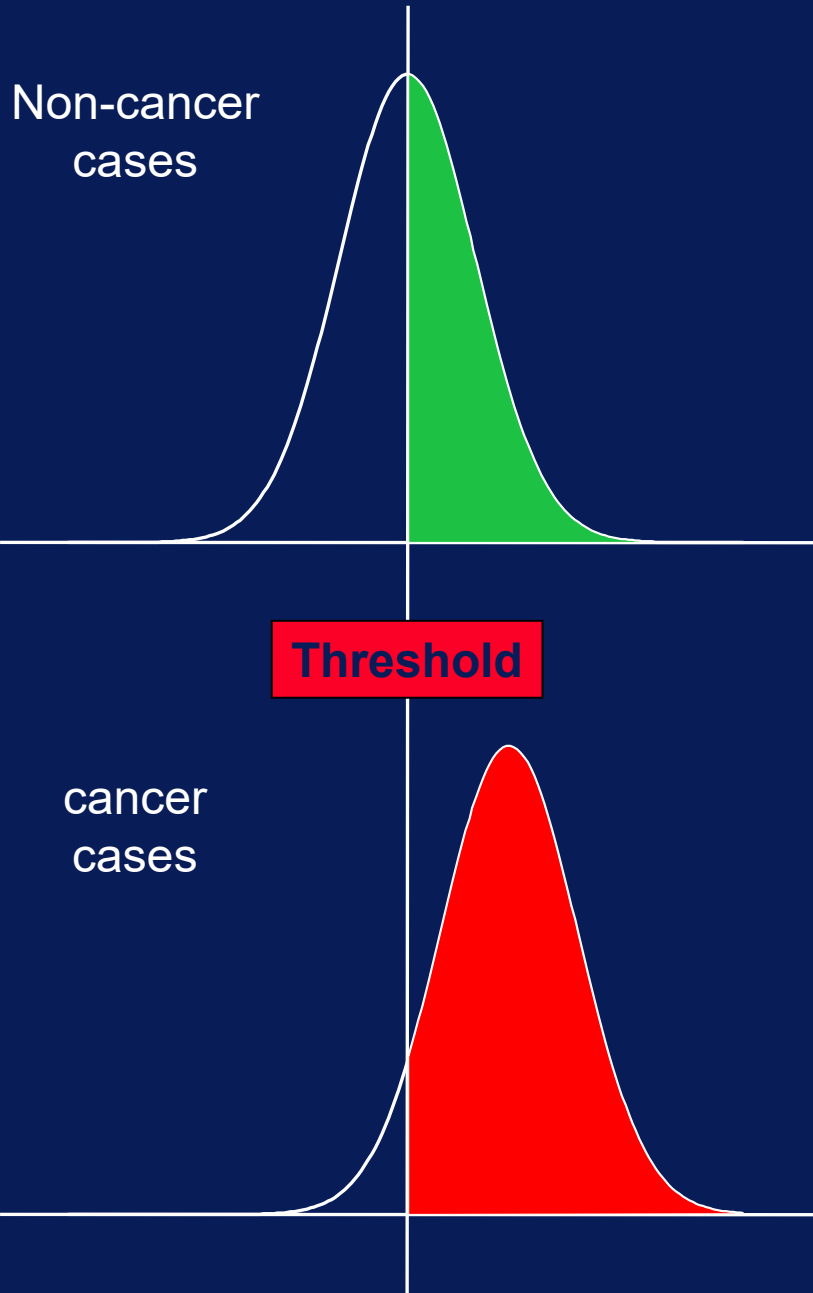




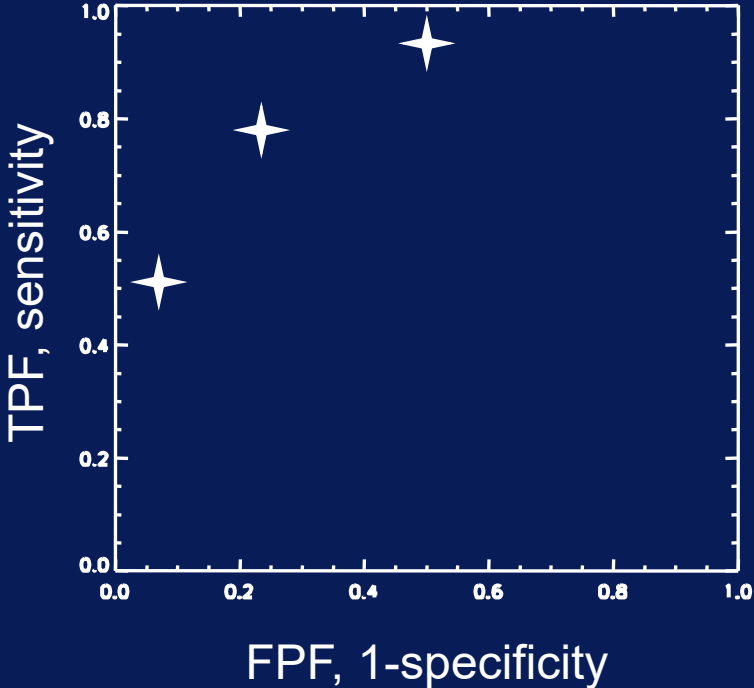
### ROC Space

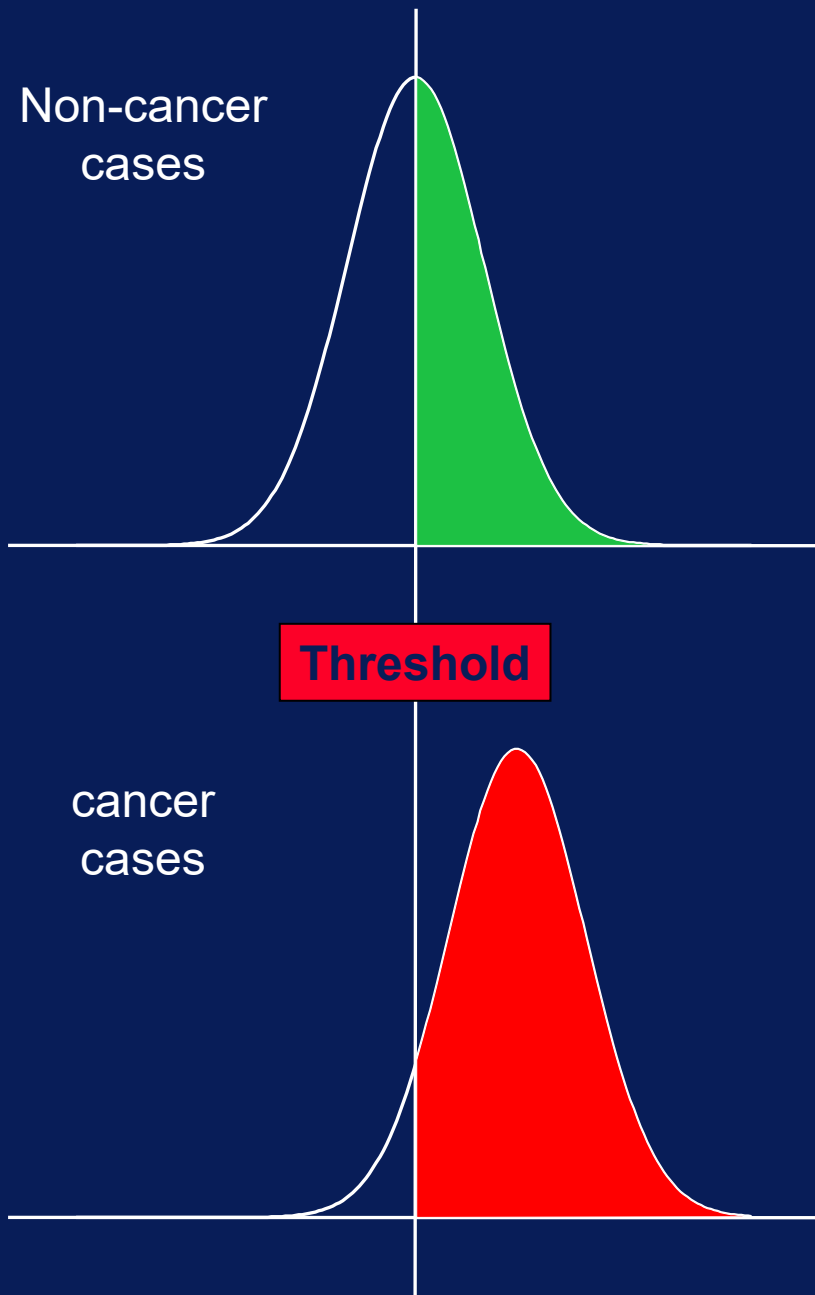




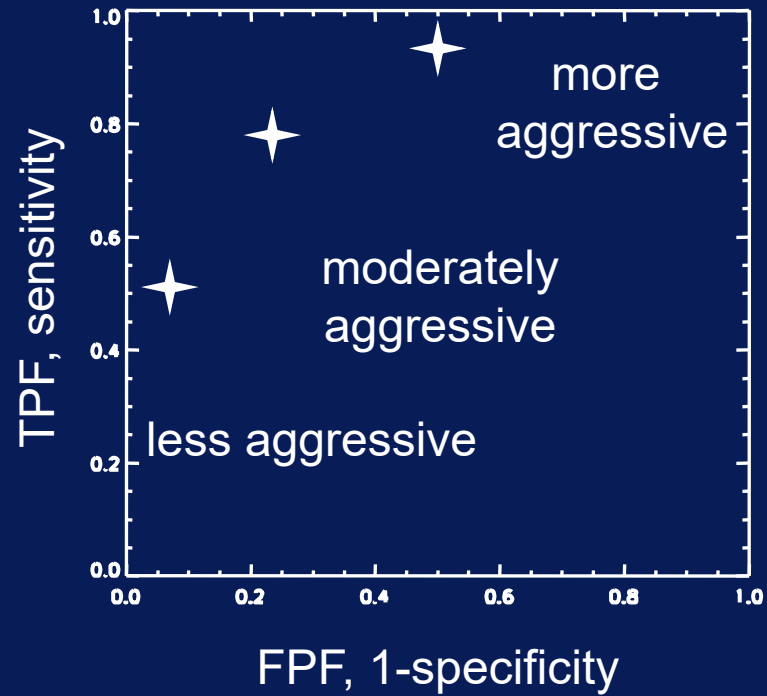


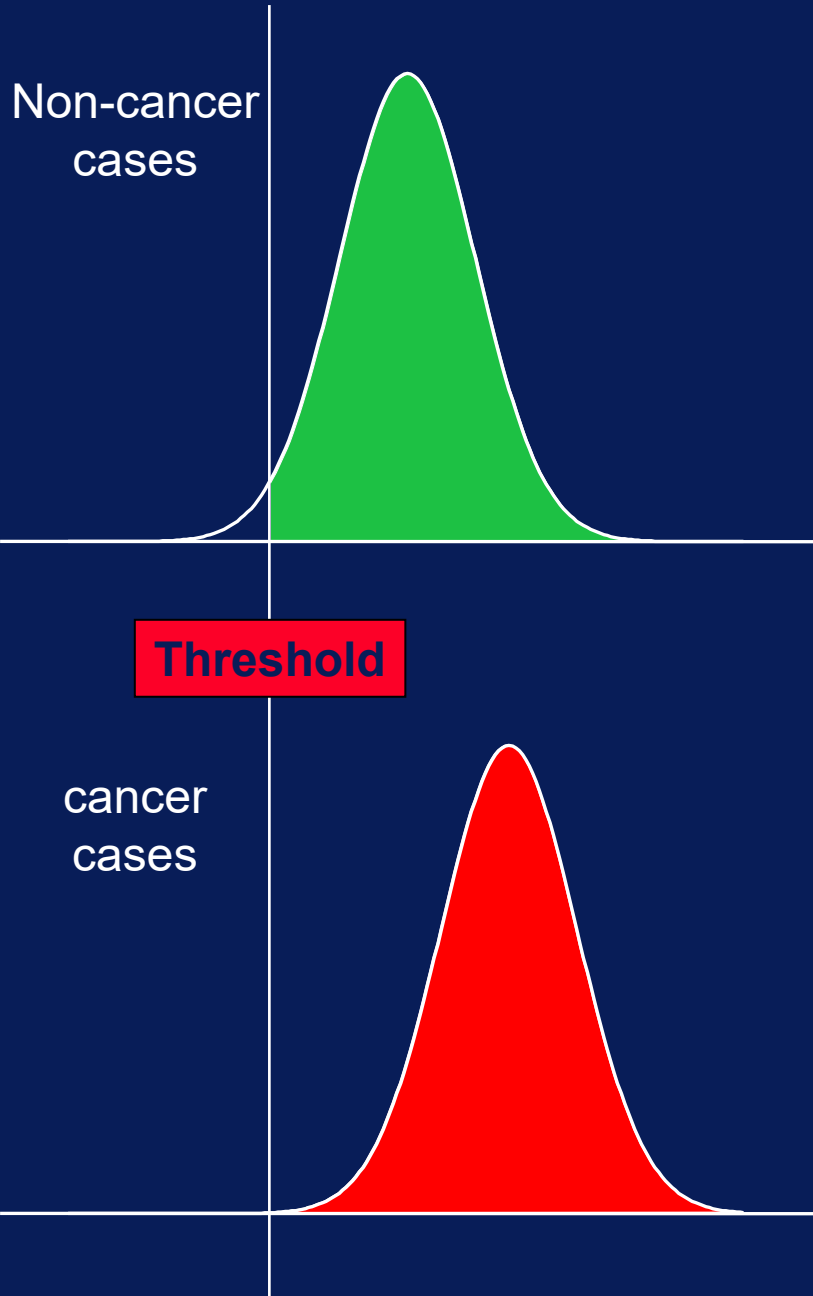
### ROC Space



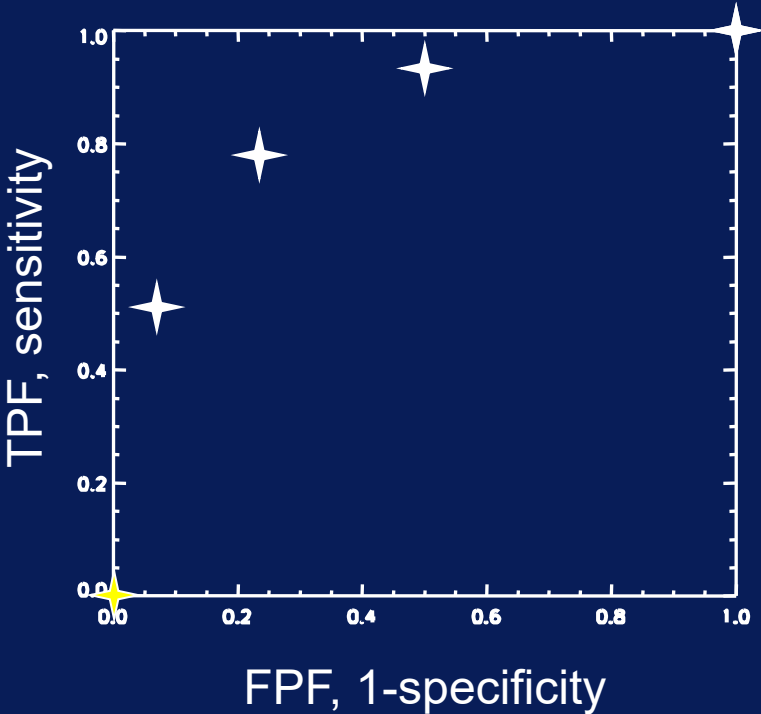


### ROC Space



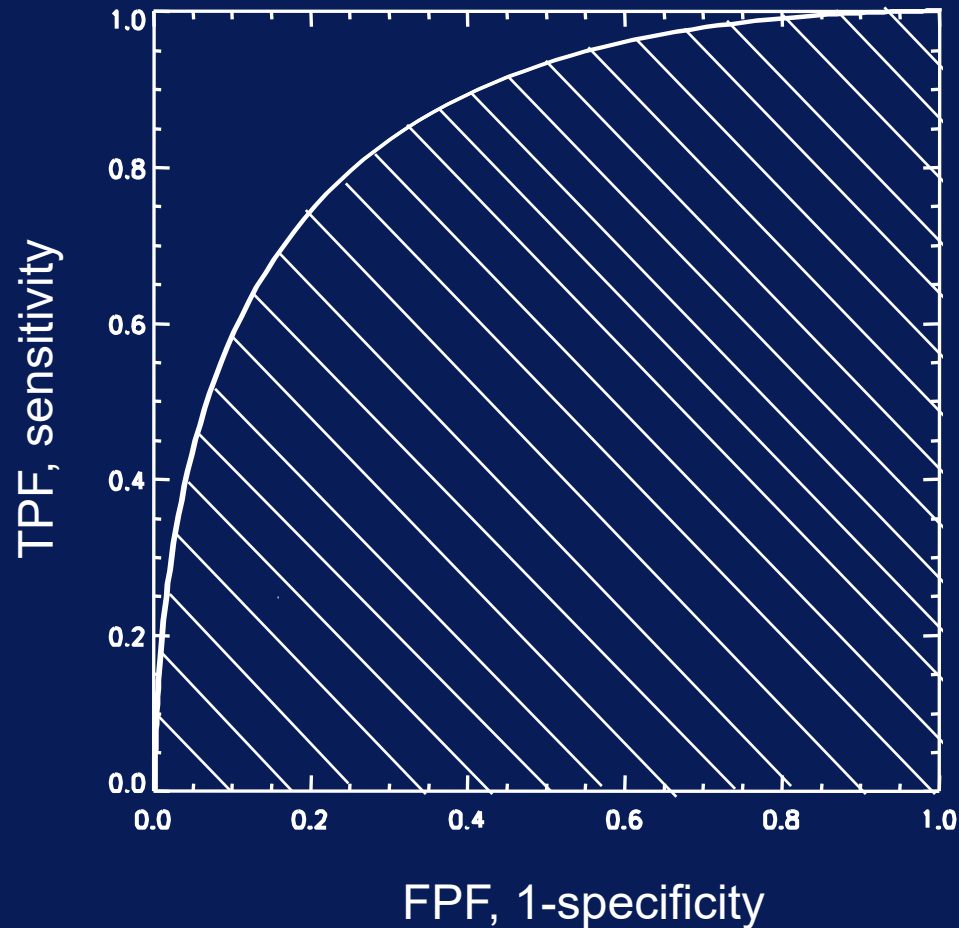


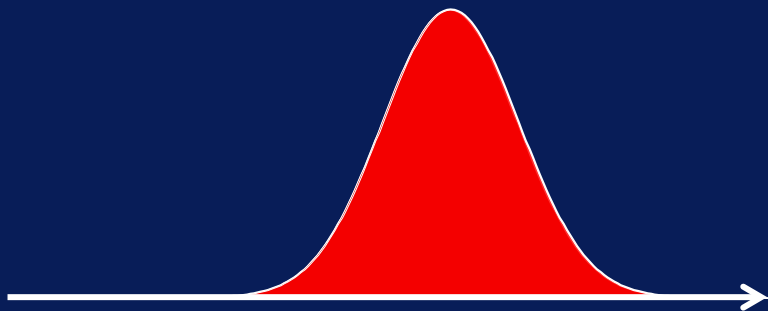
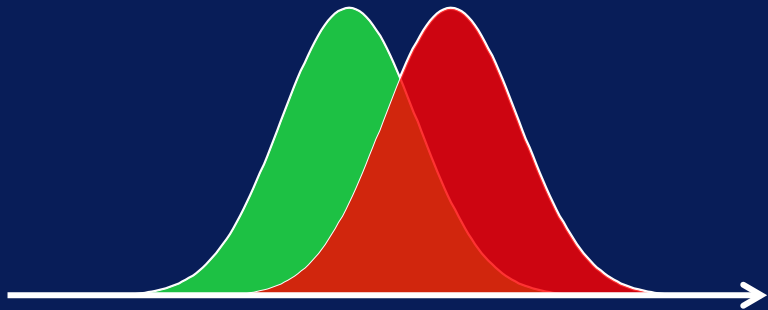
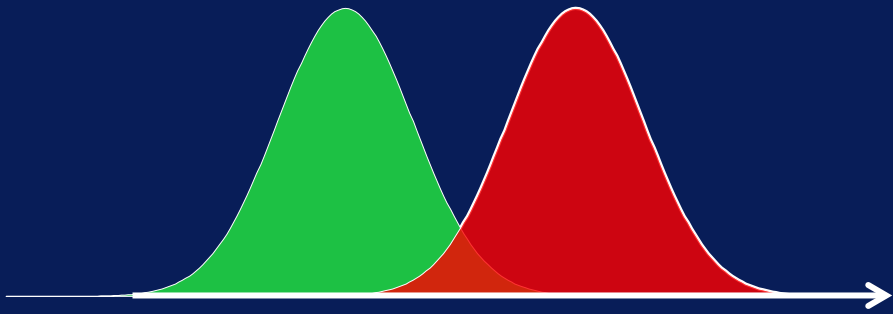
Entire ROC Curve



# Area Under Curve (AUC)

Diagnostic capacity of the diagnostic score





## Entire ROC curve

