PATHFINDER for Diagnostic Accuracy

INDIVIDUAL AND GROUP PERFORMANCE FOR PROSTATE MRI

A CASE STUDY
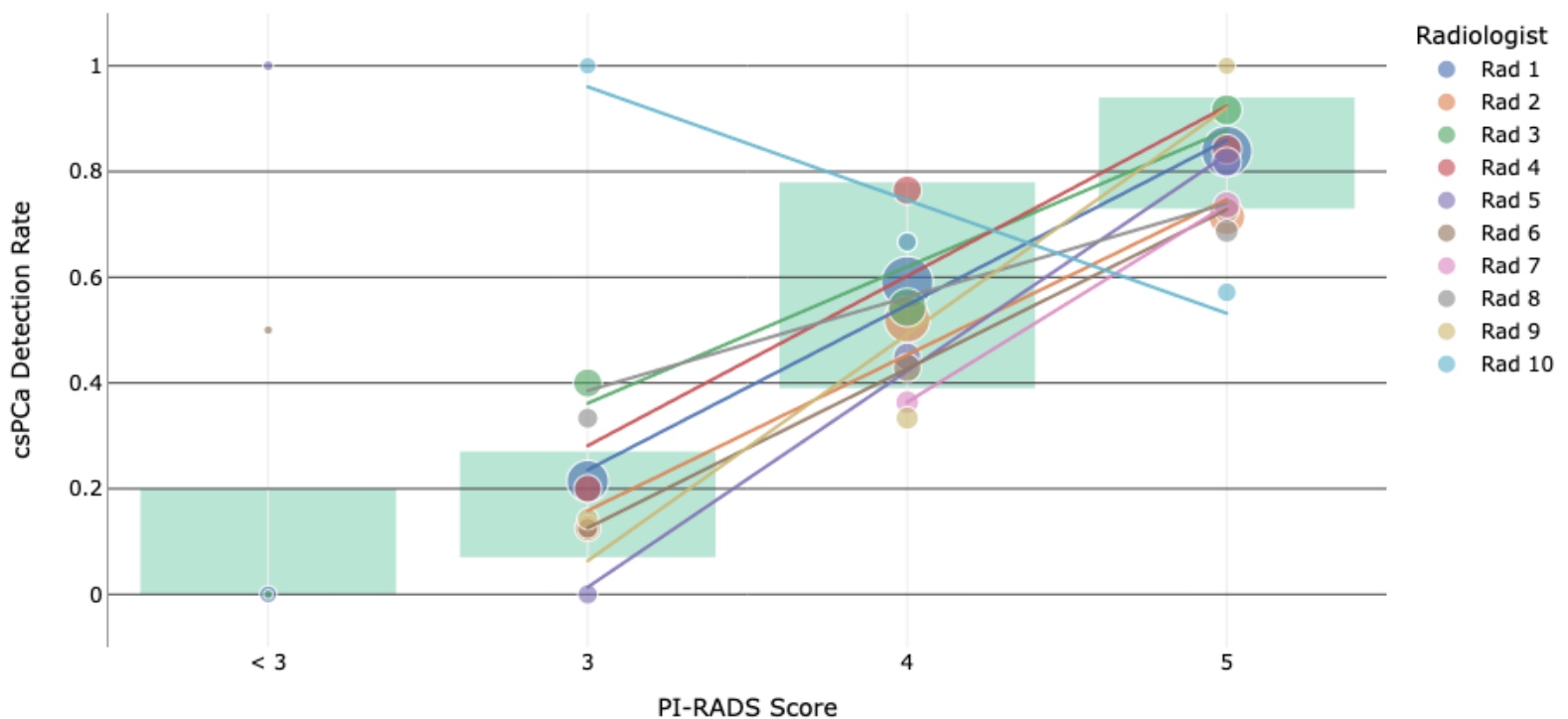
Measure What Matters

Sometimes *accuracy* means nailing the diagnosis, but other times it is more nuanced. In risk stratification systems like PI-RADS, *accuracy* means determining the likelihood a patient has cancer – and measuring it requires aggregating data from every radiology and pathology report to compare to expected cancer detection rate (CDR):

      PI-RADS 1: **6%** (0-20%)
      PI-RADS 2: **9%** (5-15%)
      PI-RADS 3: **16%** (7-27%)
      PI-RADS 4: **59%** (39-78%)
   PI-RADS 5: **85%** (73-94)

PATHFINDER completely automates diagnostic accuracy assessment for prostate cancer diagnosis, extracting PI-RADS and Gleason scores from *every* relevant radiology and pathology report, and automatically calculating individual and group CDR.

PATHFINDER's structured data extraction pipeline and automatic comprehensive radiology-pathology correlation deliver unique insights into individual and group performance for PI-RADS, BI-RADS, TI-RADS, Lung-RADS, and more!
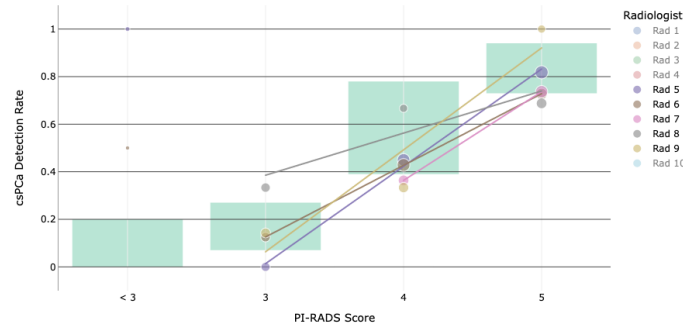

Radiologists in this academic group are doing well – most cancer detection rates fall in the expected range. One rad needs help – can you spot which one?
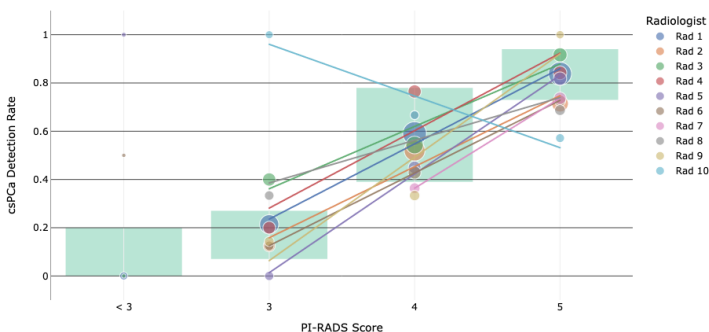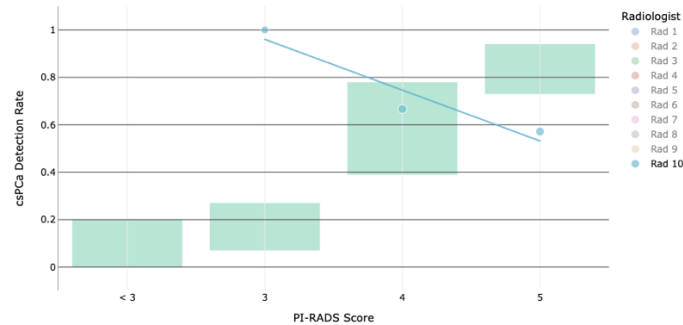

Radiologists 1-4 are top performers, achieving CDRs almost perfectly aligned with PI-RADS expectations:
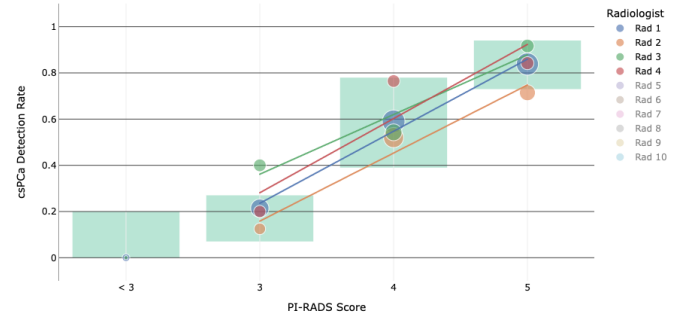
Radiologists 5-9 are more scattered but still risk-stratify patients well:

Radiologist 10 is an outlier, achieving a *negative* association with CDR at PI-RADS 3-5:

Which of your radiologists need help?

PATHFINDER enables the proactive identification of outliers and top performers to identify opportunities for improvement and help ensure that all patients get the high-quality care they deserve.