QP-Prostate®

Quibim

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Improving cancer detection through AI technology

CE marked, 510(k) cleared, and UKCA marked.

Discover QP-Prostate®

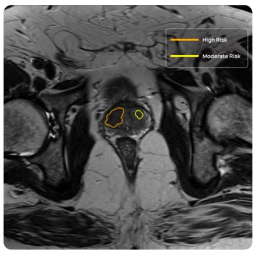
Prostate cancer ranks as the second most prevalent cancer in men, posing a significant public health concern. While MRI scans are vital for early detection, the increased demand for scans has outpaced the growth of radiology experts. This has resulted in diagnostic delays and inconsistent interpretations, with only a minority of the medical community adhering to PI-RADS v2.1 guidelines.

Introducing **QP-Prostate, an AI-powered solution designed to streamline radiologists' workflows.** By automatically evaluating compliance against PI-RADS v2.1 guidelines, segmenting the prostate gland, and identifying suspicious lesions, **QP-Prostate empowers radiologists to deliver quicker and more accurate assessments, ultimately enhancing patient care.**

Introducing a suite of enhanced diagnostic capabilities

1. AI-based automated lesion detection

Our AI algorithm, trained with pathology data, is designed to detect significant prostate cancer lesions efficiently using biparametric input (T2W and DWI), with plans to outperform competitors in accuracy and speed. These AI algorithms are intended to elevate diagnostic accuracy with automated detection of biopsy-proven, aggressive prostate cancer lesions.



2. Automated quality assessment

QP-Prostate automatically verifies MRI acquisition protocol according to PI-RADS v2.1 guidelines, ensuring that radiologists work with high-quality MRI examinations from the start.

3. Precision in segmentation

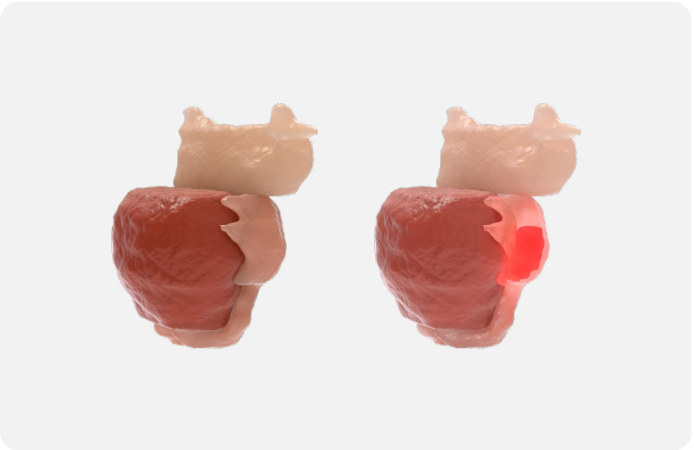
Our software segments the prostate gland with market-leading accuracy (88%)[1]. It segments three key subregions (Peripheral, Transitional+Central zones, and Seminal Vesicles), includes PI-RADS v2.1 regions, and computes prostate volume, facilitating fusion biopsy planning.

4. Quantitative diffusion and perfusion data

QP-Prostate provides partially registered b 1400 DWI and ADC image series, offering rich quantitative diffusion information. This dataset empowers radiologists to analyze potentially cancerous lesions with confidence.

5. Flawless PACS integration

Ensure consistent and seamless incorporation of all outputs from QP-Prostate into your hospital's PACS with no disruptions to radiologists' workflow.



3D model of prostate segmented from T2-weighted MRI

Changing the narrative in prostate diagnostics

Experience confident, intelligent, and reliable prostate MRI interpretation with QP-Prostate – your trusted solution providing comprehensive insights and precise assessments for better patient care and outcomes.

The product will be enhanced with predictive capabilities in upcoming versions, which are currently undergoing clinical studies for imaging-based prediction of biochemical relapse. Recent studies show that combining MRI with clinical data predicts a 10-year biochemical recurrence with an area under the curve (AUC) of 0.84 to 0.87[2].

[1] Jimenez-Pastor A, et al. Eur Radiol. 2023;33(7):5087-5096.
[2] Sánchez Iglesias Á, et al. Cancers (Basel). 2023;15(16):4163.

Clinical cases using QP-Prostate®

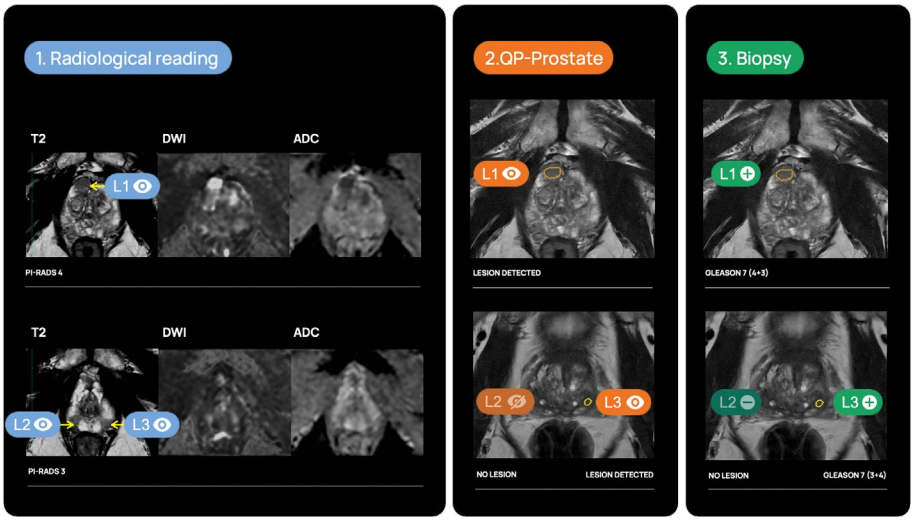
Clinical Case 1

65 YO BIOPSY PATIENT WITH PSA: 5,1 NG/ML.

THE RADIOLOGIST DETECTS 3 LESIONS:
- L1: In the right anterolateral region of the medial gland, transition zone (PI-RADS 4)
- L2: In the right posterolateral region, peripheral zone (PI-RADS 3)
- L3: In the left posterolateral region of the apex, peripheral zone (PI-RADS 3)

QP-PROSTATE DETECTS 2 LESIONS:
- L1: Highly suspicious
- L2: No lesion
- L3: Moderately suspicious

TARGETED BIOPSY CONFIRMS 2 LESIONS:
- L1: Gleason score 4+3
- L2: Benign prostatic tissue



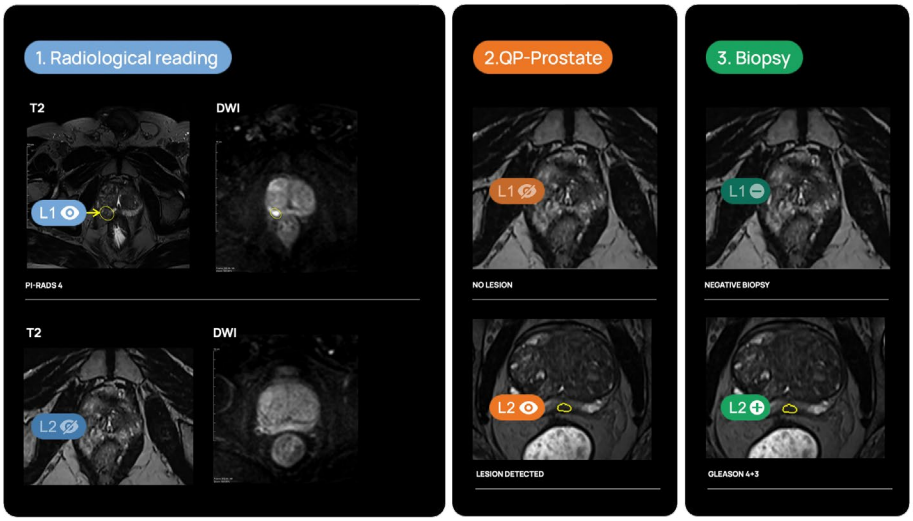
Clinical Case 2

74 YO BIOPSY PATIENT WITH PSA: 15 NG/ML.

THE RADIOLOGIST DETECTS 1 LESION:
- L1 in the middle gland peripheral zone, posteromedial/lateral area (PI-RADS 4)

QP-PROSTATE DETECTS 1 LESION:
- L1: No lesion
- L2: Suspicious lesion

TARGETED BIOPSY CONFIRMS 1 LESION:
- L1: Benign prostatic tissue
- L2: Gleason score 4+3



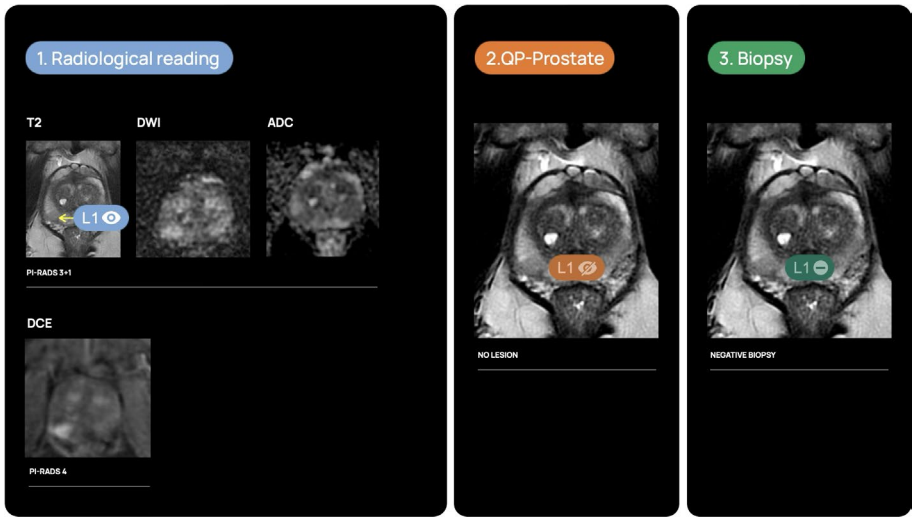
Clinical Case 3

69 YO BIOPSY PATIENT WITH PSA: 5 NG/ML.

THE RADIOLOGIST DETECTS 1 LESION:
- L1 (PI-RADS 3, DCE+; PI-RADS 4)

QP-PROSTATE DETECTS 0 LESIONS:
- L1: No lesion

TARGETED BIOPSY CONFIRMS 0 LESIONS:
- L1: Benign prostatic tissue



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