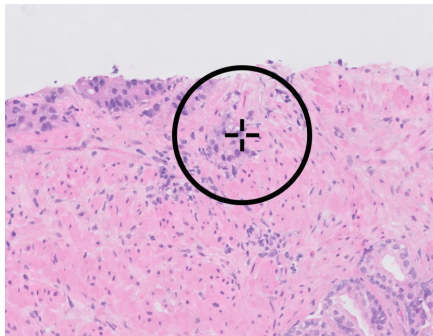# Paige Prostate Suite | 🖌 Paige®

The Paige Prostate Suite is a group of comprehensive AI applications that aid in the detection and diagnosis of prostate cancer on H&E-stained whole-slide images of prostate needle biopsies.
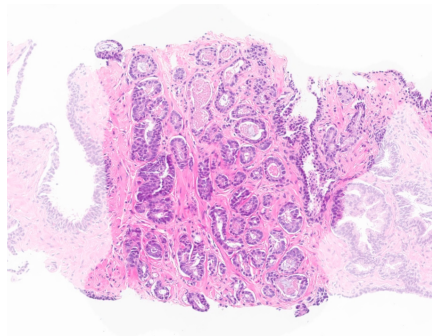
Designed to support labs in managing the vast volume and complexity of prostate cancer cases, the Paige Prostate Suite directs pathologists' attention to the most relevant tissue areas, reducing the tedium of case analysis while providing helpful insight to arrive at more consistent, confident diagnoses.

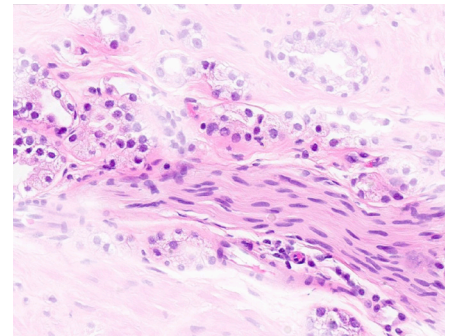
Paige Prostate Detect

FDA-APPROVED

- Assists in the detection of the foci on the slides that are suspicious for cancer

- Offers nearly perfect patient-level sensitivity for detecting prostate cancers[3]

Paige Prostate Grade & Quantify

RUO

- Categorizes areas suspicious for cancer by Gleason pattern, providing a primary and secondary Gleason grade prediction, as well as a percentage and linear measurement of tumor burden to support pathologists in tumor grading

- Shows strong agreement with expert pathologist grades[8]

Paige Prostate Perineural Invasion (PNI)

RUO

- Aids in the detection of suspicious foci around nerve fiber to support pathologists in identifying the presence of PNI

- Minimizes the time required for PNI detection, streamlining final diagnosis

The Leading Prostate Cancer Decision-Support Solution

The Paige Prostate Suite not only contains the first and only FDA-approved pathology AI application, Paige Prostate Detect*, but is one of the most independently validated set of applications in the industry, repeatedly proven to deliver the quality performance pathologists expect and patients deserve

ARMED WITH THE APPLICATIONS IN THE PAIGE PROSTATE SUITE, THE WORLD'S MOST PRESTIGIOUS HEALTHCARE INSTITUTIONS HAVE BEEN ABLE TO:

✓ Enhance Diagnostic Efficiency

Automates the time-consuming and tedious elements of diagnosis to allow pathologists to read and report each slide 21% faster[1]

✓ Reduce Turnaround Times

Uncovers advanced clinical insight throughout slide review to support pathologists in reducing IHC and second opinion requests by about 20% and 40% respectively[1]

✓ Elevate Pathologist Expertise

Improves pathologist sensitivity for detecting cancer by an average of 16%[9]

✓ Improve Overall Confidence

Repeatedly proven to deliver high sensitivity and specificity[3,4] to grant pathologists peace of mind in the detection of even hard-to-spot cancers

✓ Reduce Diagnostic Subjectivity

Intelligently automates challenging grading and quantification tasks to help pathologists mediate common inconsistencies

✓ Simplify Pathology Workflows

Offers decision support for each aspect of prostate cancer diagnosis to allow pathologists to more quickly and easily tackle the massive amounts of prostate cases and slides per case

RELIABLE, TRUSTED TECHNOLOGY

Trained on over **60,000** diverse whole-slide images from an exclusive expert dataset, the powerful applications in the Paige Prostate Suite are uniquely able to identify and quantify even the smallest, most challenging cancers with little validation necessary, providing diagnostic peace of mind along with unparalleled improvements to prostate cancer workflows globally.

PAIGE PROSTATE DETECT

HAS BEEN SHOWN TO DELIVER:

100% negative predictive value [3]

70% reduction in cancer detection errors [4]

65% reduction in time to diagnosis [3]

1. Paige Prostate Suite: Eloy C, Marques A, Pinto J, et al. Artificial intelligence–assisted cancer diagnosis improves the efficiency of pathologists in prostatic biopsies. Virchows Arch. 2023. doi: 10.1007/s00428-023-03518-5
3. Paige Prostate Detect: da Silva LM, Pereira EM, Salles PGO, et al. Independent real-world application of a clinical-grade automated prostate cancer detection system. J Pathol. 2021;254(2):147–158. doi: 10.1002/path.5662
4. Paige Prostate Detect: Raciti P, Sue J, Retamero JA, et al. Clinical Validation of Artificial Intelligence–Augmented Pathology Diagnosis Demonstrates Significant Gains in Diagnostic Accuracy in Prostate Cancer Detection (published online ahead of print, 2022 Dec 20). Arch Pathol Lab Med. 2022. doi: 10.5858/arpa.2022-0066-OA
8. Paige Prostate Grade & Quantify: Torresani E, Cima L, Gentilini M, et al. Artificial intelligence's impact on prostatic needle biopsies' diagnostics. Poster presented at the 35th European Congress of Pathology; September 9-13, 2023; Dublin, Ireland.
9. Paige Prostate Detect: Raciti P, Sue J, Ceballos R, et al. Novel artificial intelligence system increases the detection of prostate cancer in whole slide images of core needle biopsies. Mod Pathol. 2020;33(10):2058–2066. doi:10.1038/ s41379-020-0551-y
*In the United States, Paige Prostate Detect (DEN200080) is approved for clinical use with Philips Ultrafast Scanner. Otherwise, all Paige Prostate Suite applications use are limited to Research Use Only and not for use in diagnostic procedures.