



AIRA
M A T R I X

Artificial Intelligence
Transformed Analyses

AIRAProstate

AIRAProstate

Platform for Prostate Image Analysis

Automate Gleason grading, ISUP grouping, and prognostic marker quantification in core needle biopsy (CNB) and radical prostatectomy (RP) for accurate risk stratification, leading to better treatment decisions

AI-Driven Insights

- ✓ Built on deep learning models trained on data from 10,000+ patients across six global centers to support accurate and consistent analysis
- ✓ Demonstrates high concordance with expert pathologists, achieving up to 0.92 quadratic weighted kappa

Robust Performance in Real-World Conditions

- ✓ Validated on slides with artifacts, diverse staining protocols, and multiple scanner types to ensure consistent performance
- ✓ Benchmarked against leading commercial and academic AI solutions to assess reliability and accuracy

Comprehensive Case Review & Integration

- ✓ **MRN-Based Slide Review**
View all slides associated with a patient's MRN in a single platform for a streamlined, comprehensive case assessment
- ✓ **Holistic Case History View**
Access linked MRNs to gain a complete diagnostic overview, supporting well-informed treatment decisions

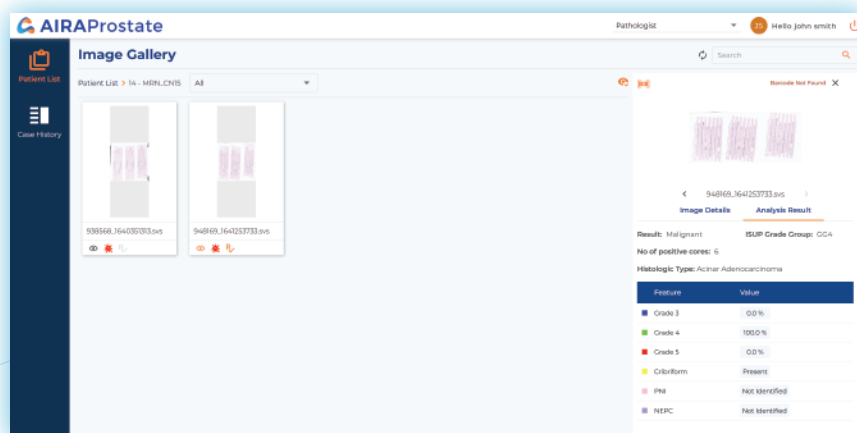
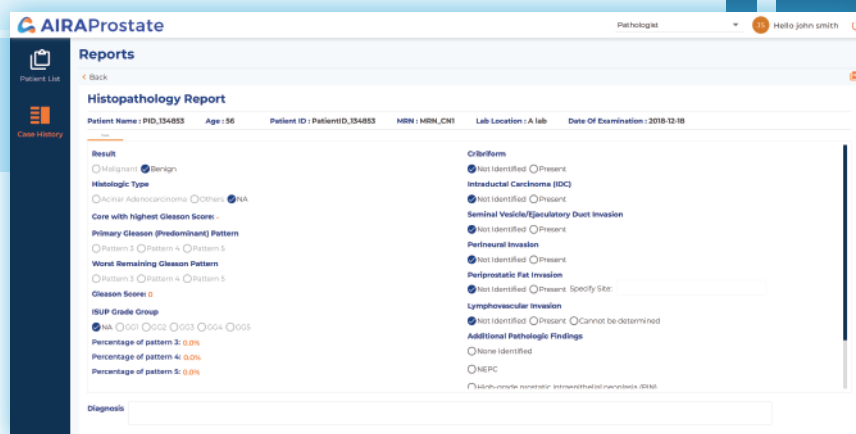
Advanced Image Analysis & Reporting Tools

- ✓ Hands-free navigation, advanced annotation tools, and synchronized AI-result comparison for efficient viewing and analysis
- ✓ Generate customizable reports for both manual review and automated assessments, tailored to specific workflow needs

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Specifications

Scanner Compatibility	Agnostic (works across multiple scanner types)
Analysis Mode	Auto, Manual
Specimens	Core Needle Biopsy, Radical Prostatectomy (Quadrants, Whole Mount)
Stain	H&E
Findings	ISUP Grade Group, Primary and Secondary Gleason Grading Patterns, Cribriform, Perineural Invasion, and Neuro-endocrine PCa
Deployment	Cloud, On-Premise
Export Results	CSV, PDF



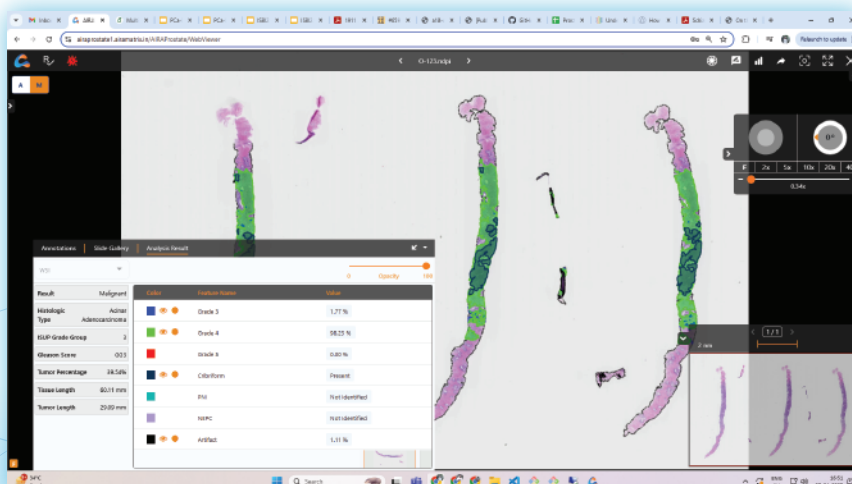
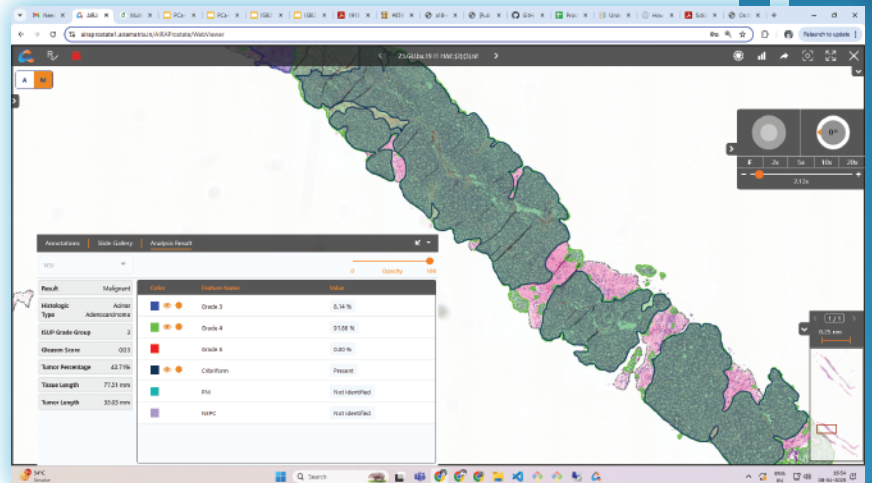
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Automated, Standardized, and Reliable

- ✓ Minimizes variability in Gleason grading and ISUP classification, enhancing risk stratification
- ✓ Seamlessly integrates with existing image management systems, with ongoing expansions for broader compatibility
- ✓ Dockerized AI algorithms optimized for smooth deployment and interoperability
- ✓ Validated against consensus pathologists and clinical outcome to ensure diagnostic consistency and accuracy

Capabilities for Core Needle Biopsy (CNB)

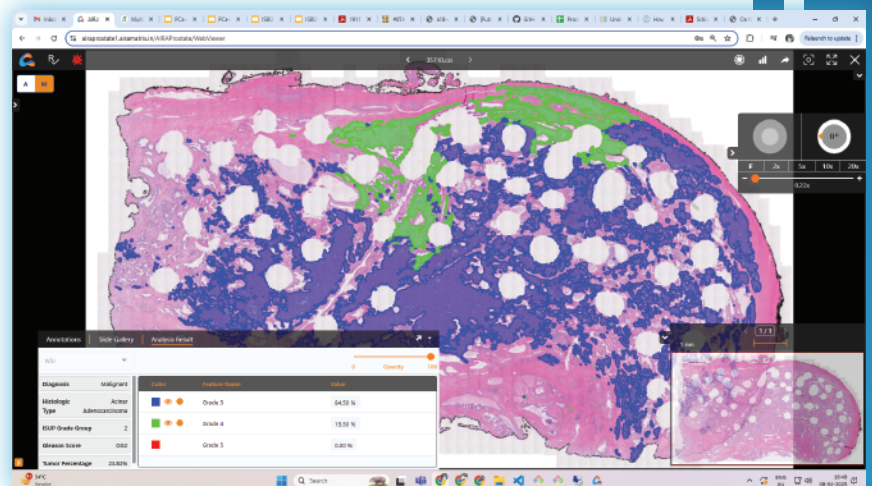
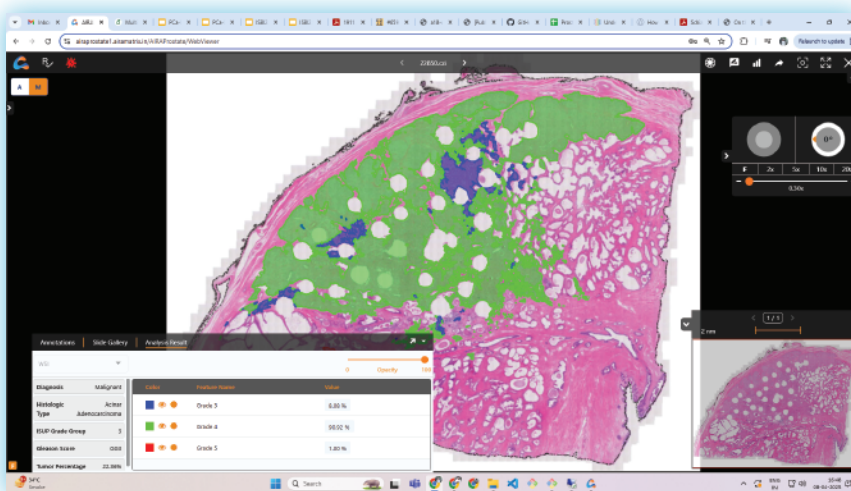
- ✓ Tumor identification (Adenocarcinoma)
- ✓ Gleason pattern 3, 4, 5 percentage estimation
- ✓ Tumor length & percentage assessment
- ✓ Cribriform pattern detection
- ✓ Perineural invasion analysis



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Capabilities for Radical Prostatectomy (RP)

- ✓ Tumor percentage quantification
- ✓ Gleason grading & ISUP classification
- ✓ Small vs. large cribriform pattern identification
- ✓ Surgical Margin estimation



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Enhancing Diagnostic Efficiency & Communication

- ✓ Enables faster, more accurate diagnoses by reducing interobserver variability
- ✓ Enhances pathologist-urologist collaboration for more effective treatment planning
- ✓ Improves efficiency with automated triage, tumor detection, and AI-driven annotations, saving time in clinical workflows
- ✓ AI-generated patient-specific modeling for prognosis and personalized treatment planning.

Experience the Future of Prostate Cancer Diagnostics

See how AIRAProstate can streamline your workflow and enhance patient outcomes

Contact us for a demo at solutions@airamatrix.com



solutions@airamatrix.com



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