



PRODUCT

A platform for prostate cancer management that aggregates extensive and diverse patient data and clinical workflows into a unified view for clinical management.

INDICATIONS

Prostate cancer with relevance to for other cancer types

VALUE PROPOSITIONS

- Care delivery and outcomes tracking
- Reduce time to gather key information
- Increase the quality of data used to inform decision making

DEVELOPMENT STAGE A prototype has been developed

CONTACT INFORMATION

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Prostata – A Prostate Cancer Management Platform

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PROBLEM

Prostate cancer (PCa) remains a significant cause of morbidity and mortality among men in the United States and globally. The management of prostate cancer, as well as other malignancies, is complex and necessitates the involvement of multiple disciplines (pathology, urology, radiology, oncology), numerous patient encounters (examinations, blood tests, biopsies, imaging), and various data types and sources (quantitative data from pathology reports, radiology reports, biopsy results, qualitative data from clinical notes, patient history, etc.). The fragmented nature of these medical data presents substantial challenges to the effective delivery of care by diminishing clinical efficiency and effectiveness and impairing the coordination of care. Providers must allocate considerable time to navigate and comprehend each patient's case. This inefficiency, coupled with the shifting perspective of data, can lead to suboptimal care. Additionally, the absence of robust analytical tools restricts visibility into individual and population-level outcomes, thereby complicating efforts to address healthcare disparities.

SOLUTION

The prototype demonstrates the value of a comprehensive prostate cancer workflow solution for individual patients and populations. It is currently implemented as dashboards in Tableau and designed to centralize data from radiology, pathology, urology, and oncology sources. The nature of the centralized data also mitigates the risks introduced by disparate data, enhancing the diagnosis, surveillance, and treatment of prostate cancer. The platform provides a comprehensive overview of patient information, improving clinical decision-making, streamlining patient follow-up, and facilitating the identification of trends and disparities at both patient and population levels. Advanced predictive analytics enable patient-specific risk stratification and treatment planning. Radiology and pathology correlation tools are included to ensure concordance between imaging findings and pathological samples. Features designed for quality assessment and control identify addressable factors that can jeopardize quality of care. The solution has been built to deliver the following value propositions.

- User-specific contexts: Tailored for Urology, Radiology, and Oncology.
- **Care timelines**: Including PSA levels, MRI scores, pathology results, and treatment plans.
- Trend data: Pertaining to care plans and patient history.
- Proactive identification: Of opportunities for patient care and engagement.
- Cohort reviews: For patients, care, and outcomes.
- Time-based reporting: On diagnostic performance.



The image on the left demonstrates the dashboard-based view while the smaller image shows temporal data.