



OPPORTUNITY

Connect clinical needs and collaborative innovation by safely unlocking hospital data.

INNOVATION

The Sandbox lets startups and pharma validate new technologies—without putting patients or operations at risk.

SOLUTION

Using InterSystems technology, led by clinicians, Assuta integrates hospital data from many sources to drive diverse innovations.

IMPACT

The Sandbox accelerates innovation, funds research, and strengthens Assuta's technological edge.

Assuta Medical Sandbox: Revolutionizing Healthcare Through Data-Driven Collaboration and AI-Powered Innovation

Healthcare overflows with data, but siloed, underutilized, and inaccessible to innovators seeking to improve patient outcomes. Assuta Ashdod Hospital recognized in its rich, paperless ecosystem — with electronic medical records (EMRs), digital pathology, lab results, and unique procedure videos — an untapped potential for medical breakthroughs. Startups and pharmaceutical companies desperately need reliable environments to validate new technologies using clinical data. Assuta's Department of Medical Innovation answered with the collaborative Assuta Medical Sandbox (AMS), safely connecting external innovators with anonymized hospital data. It both fuels innovation and helps fund research, intellectual property, staff expertise, and patient care.

Stimulating Innovation with Partners and Reinvesting for Future Research

Assuta's initiative is transforming both patient care and the broader technology landscape. By fostering collaborations with startups and pharma, the Hospital has catalyzed groundbreaking AI tools like BloodGPT for predictive blood analytics and TailorPath for personalized special needs support. Such solutions reduce hospital stays, accelerate diagnoses, and enhance overall patient experience. Beyond direct patient benefits, AMS sustains a cycle of innovation and reinvestment. This dynamic model ensures that Assuta remains at the forefront of medical advancement while continuously elevating staff expertise and operational excellence.



“We are not just a hospital; we are a digital health ecosystem where data becomes the fuel for life-saving innovation.... By opening our doors to startups in a secure Sandbox, we turn raw healthcare data into actionable intelligence that directly benefits patients.”

Department of Medical Innovation, Assuta Ashdod Hospital

Real-World Collaboration with Secure, Anonymized Hospital Data

Based on **InterSystems IRIS for Health Advanced Server** and **Health Connect**, the AMS is an isolated virtual environment that allows external partners to access anonymized, real-world healthcare data. This unique ecosystem ensures that all innovations are clinically relevant, safe, and ready for application. Setting AMS apart is its deep integration of clinicians into development, ensuring that solutions address genuine medical needs. Leveraging federated learning, generative AI, and a library of endoscopic videos, AMS enables smart analytics and real-time surgical monitoring. It seamlessly transforms raw data into life-saving tools.

- **Comprehensive Data Integration** with a rich variety of sources—MRs, digital pathology, videos, and lab results—provides innovators with deep, real-world context. The AMS combines administrative, logistic, and clinical data and ensures a holistic approach to innovation.
- **Unique Video Analytics** run in an unparalleled library of endoscopic procedure videos with AI interpretation, allowing for creation of smart analytics and real-time monitoring of surgical procedures. These insights enhance safety and provide dynamic training tools for medical staff.
- **Secure Isolated Environment** provides a strictly controlled, anonymized virtual space where external partners can rigorously test new technologies. Isolation guarantees that hospital operations remain safe and uninterrupted during ongoing innovation, fostering rapid experimentation and validation.
- **Clinician-Led Validation** through active involvement in development ensures that resulting technologies are clinically relevant and practical. This direct medical oversight guarantees that innovations seamlessly move from theory to actual patient care, bridging a critical gap between potential and application.

About the Winner: Assuta Ashdod Hospital

Assuta Ashdod Hospital is a digitally-oriented, paperless healthcare leader dedicated to treating patients and continuously improving care. Since its beginning, the Hospital has been advancing its technology in its operations, ensuring that all departments have accurate and reliable data. With its innovative use of technology, Assuta Ashdod is transforming medical data into useful information and enabling the growth and awareness of personalized medicine.

About the InterSystems Impact Awards, Selected by an MIT Panel

Each year select client organizations are recognized at the InterSystems READY conference for projects driving positive change. Nominations are evaluated by independent judges from MIT on three criteria:

- **Makes a meaningful difference**
- **Breaks new ground**
- **Sets an example**

To learn more about the InterSystems Impact Awards visit

<https://www.intersystems.com/intersystems-impact-awards-2026/>