



Partnering to Bring World-Class Innovation to Every Patient

At Providence, we believe the best care combines the best data with the ability to act on it. That's why the Providence Institute for Clinical Innovation partners with world-class researchers. Together, we can leverage data to generate insights that will transform bold ideas into everyday care.

Our goal

To make every healthcare decision informed, personalized, collaborative, and precise. Together with our partners, we focus on innovations that:

- **Improve Care:** Advancing clinical quality through precision and personalization
- **Accelerate Discovery:** Fast-tracking research to adoption
- **Drive Sustainability:** Lowering the cost of care for patients and systems

"The next 10–20 years will see an explosion of new AI tools in medicine that will fundamentally shift healthcare. In this new world, AI is the engine, data is the fuel, and our partnerships are the ignition button."



Bill Wright, PhD

Chief Research Officer, Providence

Partnership Case Study: RESOLVE and CardioScope

Expanding Innovation Access to Rural Communities

Providence and the University of Montana launched RESOLVE to create the nation's leading collaboration for rural health research and innovation. By partnering with local providers and researchers, RESOLVE ensures **cutting-edge innovations** reach patients where they live.

One of its signature projects of RESOLVE and the Institute for Clinical Innovation is **CardioScope**, a collaboration with Providence St. Patrick Hospital, UC Berkeley, and international partners. Led by Dr. Ziad Obermeyer, a TIME100 AI leader and long-term Providence partner, CardioScope is a big idea that uses **AI to predict heart attacks** in multiple ways.

CardioScope: A Big Idea to Save Lives

Predicting Acute Coronary Syndrome (ACS)

More than **one million Americans** a year are hospitalized due to ACS, yet patients with atypical symptoms—such as shortness of breath instead of chest pain often go undiagnosed. Additionally, clinical outcomes from ACS are even worse for women than for men. Women continue to experience higher patient and system delays and receive less aggressive invasive treatment.¹

CardioScope for ACS acts as an **AI-powered “safety net”** scanning health record data to help doctors identify high-risk patients and close care gaps. Over time, the same approach will expand to other life-threatening conditions such as pulmonary embolism and aortic dissection.

With retrospective validation complete, CardioScope for ACS is being pilot tested in Montana at Providence St. Patrick Hospital—bringing world-class cardiovascular innovation to rural communities.

Preventing Sudden Cardiac Death (SCD)

Each year, **400,000** Americans die suddenly from cardiac arrhythmia events that, in many cases, could be prevented if risks were known in advance. CardioScope for SCD uses AI to analyze electrocardiograms (ECGs) to help clinicians identify patients at elevated risk of sudden cardiac death.

CardioScope enables health systems to:

- **Detect high-risk patients** through routine ECGs
- **Personalize care** with advanced monitoring
- **Intervene early** with life-saving defibrillators

CardioScope for SCD will expand the reach of preventive and personalized cardiovascular care to communities that need it most.

The Future Is Here and It Takes All of Us

No single system can transform healthcare alone. Through the Providence Institute for Clinical Innovation, we align with partners, co-design solutions, and rapidly test and scale innovations across diverse patient populations. This collaborative model ensures that the most advanced innovations reach every patient, everywhere.

“CardioScope has the potential to change cardiovascular care in Montana by predicting acute coronary syndrome and preventing sudden cardiac deaths before they happen.”



Daniel Spoon, MD
Chief Medical Officer,
Providence St. Patrick Hospital

¹Haider A. Bengs S, Luu, J, et all. Sex and gender in cardiovascular medicine: presentation and outcomes of acute coronary syndrome