



Reducing avoidable acute care through passive in-home sensors

TOPICS: Care coordination & navigation | Chronic condition management | Home & community | Remote monitoring | Workflow integration & interoperability



About Sensorum Health

Sensorum Health uses passive in-home sensors to detect early signs of chronic disease exacerbations in high-risk seniors and remote nurses to direct patients to lower-cost interventions, preventing unnecessary hospitalizations and helping healthcare organizations scale complex care efficiently.



The opportunity

- Reduce avoidable acute care use: Target preventable emergency department visits and hospital admissions among polychronic, high-risk seniors by catching health exacerbations early.
- Overcome patient compliance barriers: Utilize a fully-passive sensor network to proactively monitor vulnerable populations without requiring them to wear devices, charge batteries, or actively log health data.
- Scale complex care efficiently: Provide risk-bearing healthcare entities with a cost-effective model to expand continuous oversight and triage interventions without ballooning per-patient care costs



The challenge

- Delayed detection: Health declines in high-risk seniors are often caught too late, driving preventable and costly hospitalizations.
- Low compliance: Traditional monitoring requires active effort (wearing devices, logging data), leading to poor adherence among the elderly.
- Unsustainable costs: Risk-bearing entities struggle with the steep financial and operational costs of scaling on-demand care for complex populations.



The approach

- Targeted patient identification: Collaborate with risk-bearing entities to pinpoint eligible, high-risk polychronic seniors who drive the most preventable costs.
- Outreach and in-home rapport: Manage the end-to-end enrollment process and perform the in-home sensor installations, intentionally using the visit to build trust and meaningful personal rapport with eligible patients.
- High-fidelity escalations: Utilize continuous sensor data, AI, and remote ED nurses to deliver highly accurate escalations to risk-bearing entities—ensuring zero false positives and guiding interventions that are tailored to the patient's specific conditions and symptoms.



The impact

- ✓ Reduced hospitalizations: Sensorum's [Intermountain Health partnership](#) achieved a 34% reduction in hospital admissions and a 28% reduction in ER visits.
- ✓ Passive approach validation: Removing the burden of device management (wearing, charging, or logging) proved essential for working with high-risk, polychronic seniors.
- ✓ Scalable economics: Sensorum allowed risk-bearing entities to expand complex care without ballooning per-patient costs.
- ✓ Value-based alignment: Utilizing fees-at-risk contracts instead of traditional CPT codes tied financial success directly to improved patient outcomes rather than the volume of services delivered.



It feels like someone is looking out for me, even when I'm alone. It's like having a nurse in my home who notices things I don't."

— **Sensorum Patient**

Case study



Connected Health

Collaborative Community by D^{iv}E

