

Virtual Patient Observation System Reduces Falls

The Challenge - Reducing Patient Falls

Patient falls negatively impact value-based care through adverse patient outcomes and increasing hospital operating and litigation expenses.

As reported by [AHRQ...](#)

- Annually between 700,000 and 1 million patients fall and over 10,000 die.
- The hospital expense per fall is \$6,698.

Plus, post-falls injury care is not reimbursed by Medicare or private insurers.

KnowFalls Product Offerings

To prevent falls, KnowFalls offers hospitals a:

- Virtual Patient Observation System (VPO) and
- Artificial Intelligence Fall Prevention App (AI-App).

The VPO provides hospitals with the opportunity to have a set of eyes and ears, at all times, on the patient. The observer can monitor the patient and engage in 2-way communication, stop or delay dangerous activity and when necessary notify the attending nurse/CNA to intervene.

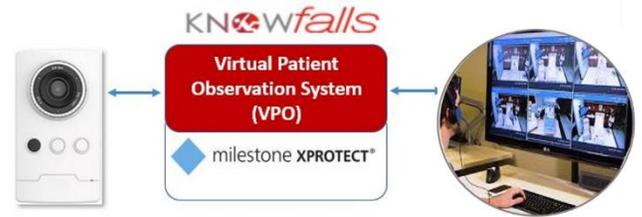
The AI-App automatically locates the patient's bed, identifies early warning signs of a bed exit attempt and generates alerts to the caregiving team to intervene.

Both the VPO and AI-App run on products from hospital trusted vendors including Dell, HP, Axis and Milestone.

KnowFalls - the Best Value VPO

KnowFalls has improved the quality and performance and reduced the price of VPOs by supporting the latest technology. For example,

- The VPO is built on the Milestone Xprotect video



management system. KnowFalls customized the user interface, patient engagement, data recording and reporting system to optimize patient observation. The result is a high-performance HIPAA compliant VPO at a price 50% less than competitive offerings.

- To minimize components, the [Axis M1065](#) is supported. It is an IP camera including IR illumination, a microphone and speaker, POE and can be mounted on a wall, corner or a portable mount. The adjacent image is the actual camera size.



Patient Sitters Are Expensive

In-room patient sitters are usually prescribed to monitor fall risk patients. For an average patient hospital stay of 4.5 days, the sitter cost is about \$1,700. It is not reimbursed since falls are viewed as [never events](#) by Medicare and private insurers.



One Observer Replaces Fourteen Sitters

As noted in the [Journal of Nursing Education and Practice](#), *A Comparative Study of Patient Sitters with Video Monitoring versus In-Room Sitters*

- Use of in-room sitters to prevent a patient's fall or injury is widespread, expensive, seldom reimbursed, controversial in the literature, and not supported by a strong body of evidence.
- video monitoring is less expensive than sitters and does not impose a patient safety risk for falls.

The KnowFalls VPO patient monitoring replaces 15 patient sitters with 1 remote patient observer. At an annual sitter and observer annual salary plus fringes of \$30,000, the savings is \$420,000.

KnowFalls VPO System

The KnowFalls VPO System can be configured to monitor 4 to over 1,000 patients. In addition to patient monitoring the VPO enables...

- Patient Engagement
- Automating Observer Operations, and
- Data Recording and Reporting

Patient Engagement

An observer saves lives, prevents injuries and helps patients avoid extended hospital stays. To help the

Monitoring and Engagement

- Fall Prevention Engagement
- Adverse Behavior -
IV and Catheter Pulls
- Patient Safety Protocols
- Room Cleaning Protocols
- Concierge Services
- Workplace Safety

observer, the KnowFalls VPO System provides 2-way audio communication, day and night viewing, automated data entry and user-friendly camera

controls to optimize monitoring.

Observer Operations

The VPO automates an observer's...

- access to the patient's activity log
- initiating patient privacy to stop all video display
- logging the patient's activity, and
- recording patient engagement

In addition, system administrators can create unique data collection to optimize patient engagement and observer performance.

Data Recording and Reporting

The KnowFalls VPO records all patient and remote observer activities within an encrypted SQL database. All stakeholders can query the database to gain actionable intelligence on team and system performance. Three reports are provided - a Patient Activity Report, an Observer Activity Report and a Summary Report.

License Fee - \$395 per Patient Monitored

The KnowFalls VPO software system is available at \$395 per patient monitored. To enable system evaluation, KnowFalls offers at no charge a three month eight patient [Software Evaluation System](#) and a Starter Systems (including cameras, computers, Milestone VMS and VPO software). For more information or a demonstration contact a KnowFalls' application engineer or staff nurse at...



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