

Soteria: Lens

Fall Prevention and Detection
Powered by **KNOWfalls**

Fall Prevention

The Soteria: Lens System empowers hospitals, assisted living facilities and skilled nursing facilities to prevent falls and patient injuries. It provides an early warning system for monitoring and detecting a patient's "risky bed behaviour." Through an advanced artificial Intelligence (AI) model Soteria Systems:

- **Predict** Automatically, and without human intervention, when a patient is preparing to get out of bed.
- **Alert** Automatically notify a care team member - a remote/virtual patient observer or a nurse - of the at-risk behaviour.
- **Prevent** Provide the care team with time to intercept and stop the patient from getting out of bed.

The Soteria System automates the task of determining an alert condition while reducing false alarms and alert fatigue. By providing the care team with intelligent and faster decision making, the Soteria Systems take pressure off nursing resources, save time and energy and make caregiving safer.

System Offerings

The Soteria fall prevention solutions are:

- **Soteria Automated VPO Software System** - a bundled software system for integration with recommended cameras, video management system, display, etc.

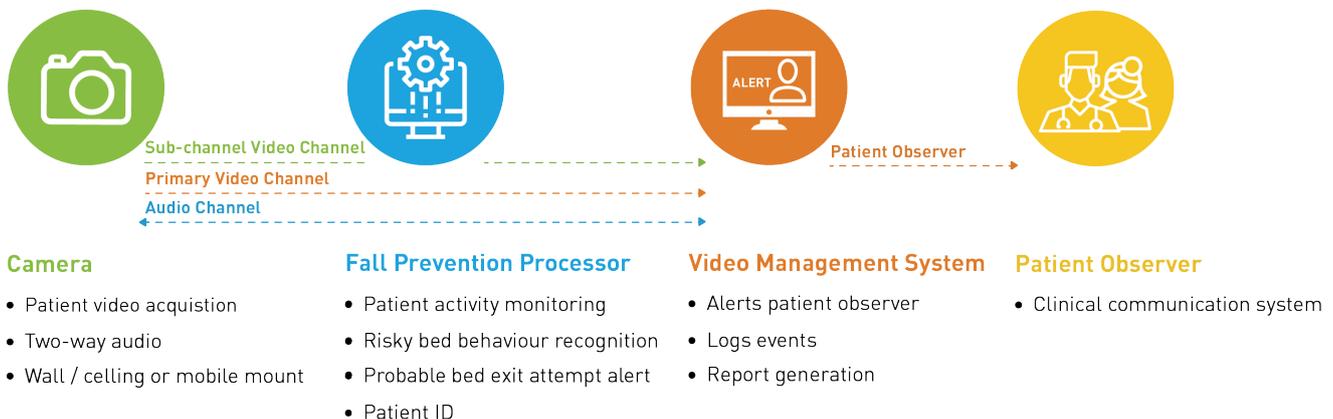
- **Soteria Automated Virtual Patient Observation (VPO) System** - a turnkey solution, as shown below, integrating the Soteria Automated VPO Software System with all necessary hardware - cameras, video management system, display, etc.

- **Soteria Fall Prevention Processor** - an AI based system for detecting and alerting caregivers of a patient's risky bed behaviour. It is designed to upgrade and be easily installed within a hospital's existing VPO.

Soteria Automated VPO System

The Soteria Automated VPO is a turnkey fall prevention solution. It continually monitors patients and detects risky bed behaviour, that alone or in combination, predict a probable bed exit attempt. When a bed exit attempt is predicted, an alert is generated to a virtual patient observer, who can verbally redirect the patient and via standard protocols dispatch the attending patient caregiver.

The Soteria VPO System integrates the Soteria Automated VPO Software Systems with Axis cameras, Milestone video management systems and Soteria Fall Prevention Processors (a Zotac high performance computer). System configurations can monitor hundreds of patients simultaneously.



Soteria Mobility

The Soteria VPO adapts to a user's need. For example, the cameras can be stationary and installed on walls or ceiling mounts, or they can be mobile. The latter consists of a wireless camera, with embedded 2-way audio and night-vision, mounted on a six-foot pole with power cord. Optionally, battery power is available. It can run the camera, without being recharged, for up to four days.



Extended Life-Cycle

Within the Soteria Automated VPO, the performance of the AI-based Soteria Fall Prevention Processor continually improves. The AI model learns just as a human learns. As opposed to other systems that degrade over time, the AI model improves and makes better decisions.

To facilitate training, Soteria includes with each system a Training Processor. It learns how to detect risky bed behaviour faster and with greater precision. The Training Processor is also utilised as a backup to the Soteria Fall Prevention Processor to provide system redundancy.

Utilising Off-the-Shelf Hardware Improves Performance and Lowers Cost

Rather than building custom hardware, Soteria utilises quality systems components from leading manufacturers. For example, Soteria has partnered with Axis Cameras, the world's largest surveillance camera manufacturer, to provide the latest camera technology offering.

- High Resolution: 1920 x 1080 – sufficient to read a patient's ID bracelet at 25cm
- Night Vision with a range of 6m
- Two-way audio
- Compliance with UL, medical safety and NIST wireless communications standards
- Sustainability: PVC-free

Similarly, Soteria has partnered with Milestone, whose video management and display systems have become the quality standard within the hospital community. By utilising quality, off-the-shelf systems, Soteria provides the highest value offering while minimising a hospital's capital investment and maintenance expense.

Soteria Support and Training

Health Kite provides hospitals, integrators and developers with software development and systems support and training. They are designed to address unique requirements and rapid system installation.

Soteria Saves Lives and Reduces Costs

The Soteria Systems save lives, prevent patient injury, reduce the financial burden from patient falls, and provide hospital leadership with actionable data for comprehensive risk management. Plus, by capturing the complete video and audio of the event and response, hospitals can identify staff education and fall awareness needs.

To further understand how Soteria can prevent falls, contact the team at Health Kite.

About Health Kite

Health Kite is an emerging healthcare technology brand that is dedicated to the development, deployment and support of game-changing healthcare innovations in the Australian and New Zealand healthcare markets. Our key focus areas include chronic disease management, falls prevention and detection, wound care, maternity, aged care, palliative care and remote care.

Our Australian-based team is committed to collaborating with hospitals and other healthcare providers to co-design solutions centred on improving patient care, clinical outcomes, patient experience and engagement, and reducing hospital expenditure.

To learn more about our capabilities and the ways in which we can assist your healthcare organisation overcome its biggest challenges, please contact us using the contact details below.



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