

## Solution Overview

Alairo AFP is a predictive, AI-powered fall prevention and virtual patient monitoring solution designed to give nursing teams adequate time to intervene before an unassisted bed or chair exit becomes a fall.

Using advanced computer vision and highly trained artificial intelligence, AFP identifies movement patterns that signal an unsafe attempt to stand. On average, AFP provides **28.5 seconds of advance notice** before a patient reaches a standing position—or before an immediate fall occurs. With typical nursing response times averaging 14 seconds, this lead time enables a near-complete reduction in bed- and chair-originated falls.

### Real-Time Alerting That Puts Nurses in Control

The moment an imminent bed exit is detected:

- An **alert with live video** is sent directly to the nurse's mobile device.
- The nurse can **immediately call back into the room using two-way audio** to redirect or stall the patient while en route.
- If needed, the alert can be escalated instantly.
- Simultaneously, the alert is routed to the monitoring station, which also has two-way audio capability into the patient's room.
- This parallel alerting structure ensures rapid awareness, shared visibility, and no delay in communication.

### Built for Nursing Efficiency

AFP was designed around real-world nursing workflows and clinical input:

- **Minimal false alarms**  
Advanced AI filtering reduces nuisance alerts, allowing nurses to trust that when an alert is received, it requires attention. Instant video verification supports rapid clinical decision-making.
- **Portable, flexible deployment**  
Ideal for fall-risk patients, post-anesthesia med-surg patients, or temporary monitoring needs. Simply hang the sensor in the wall dock, press one button, and begin monitoring.
- **Automatic re-arm functionality**  
Prevents accidental gaps in monitoring by automatically reactivating the system, reducing the risk of leaving a patient unprotected.

### The Clinical Impact

AFP restores control to the bedside nurse by delivering actionable intelligence—not just alarms. By combining predictive lead time, immediate two-way communication, and streamlined workflow integration, AFP helps nursing leadership:

- Reduce preventable falls and protect patients from injury
- Improve staff convenience and responsiveness
- Leverage analytics for process improvements
- Alairo AFP is not simply monitoring—it is **proactive fall prevention engineered for nursing practice.**



AFP puts more control in the nurse's hands than human-based tele-sitting or fall prevention systems. Using people to predict falls is problematic, due to factors such as alert-fatigue or communication reluctance (the "crying wolf" syndrome). AI at computer speed delivers the fastest possible sequence between detection and action.



The library and intelligence in this system was trained by a team of 26 fall specialists that annotated the video of 10,000 attempted bed exits.

This approach "baked" a significant body of human judgement and physical evidence into the decision engine.



A unique, patented vision system maintains patient privacy yet enables the legal recording of patient video.