Solution Overview:

Foresite Eldercare™
A STANLEY Healthcare Portfolio Solution

Next-Generation Solution to Long-Standing Challenges in Senior Living

Challenges
For senior living administrators and clinicians, preventing falls remains a top priority—and challenge. Even with a comprehensive approach to assessing and managing each individual’s risk, it is nearly impossible to eradicate falls. When one occurs, it requires swift action—often with limited knowledge of what happened prior to the fall or what injuries the individual may have sustained. That can lead to unnecessary or inappropriate diagnostics and treatment. Further, it does little to help in pinpointing and addressing any root causes of such incidents.

Similarly, it can be challenging to track changes in residents’ behaviors and levels of movement over time. Micro-changes can occur beyond the realm of what we can reasonably expect human beings to notice. Those micro-changes can point to declines in mobility, heightened risk for illness and other health issues. Left unnoticed, these changes can culminate in a crisis event that impacts quality of life for the individual and outcomes for the community.

Solution
Foresite Eldercare™, a STANLEY Healthcare Portfolio Solution, is tackling those challenges head on. This next-generation solution brings together some of the latest, most innovative technologies, including wireless sensors, artificial intelligence, deep machine learning and predictive analytics. What stands out are the results it can help senior living communities achieve in delivering safer, higher-quality care.

Benefits
- Continuous and automatic fall risk assessments beyond what human observation alone can provide
- Imminent bed exit alerts, giving staff the opportunity to intervene before a fall occurs
- Fall detection and post-fall intervention, delivering the detailed knowledge needed for appropriate follow-up evaluation and care
- Proactive health alerts to better understand and predict care needs
- Enhanced resident and family satisfaction
- Improved performance in value-based payments and ratings systems through reduction in avoidable adverse events

CONTINUOUS AND AUTOMATIC FALL RISK ASSESSMENTS
This solution consistently communicates fall risk information to members of the healthcare team—without the need for them to perform that task separately. It delivers comprehensive, accurate evaluations using a validated methodology to estimate individual resident fall risk. It helps stratify residents as “High,” “Intermediate” or “Low” risk on admission—and updates that classification with any change in condition or for impact of medication.
IMMINENT BED EXIT ALERTS
When a resident’s movements suggest he or she is about to attempt getting out of the bed, Foresite Eldercare issues an alert. Ideally, the alert will give caregivers time to get to the bedside and intervene before the resident can get up unassisted. In addition, the solution automatically alerts staff when residents forget or opt not to use their call light when they likely need help in their rooms.

FALL DETECTION & POST-FALL INTERVENTION
The solution detects and alerts for falls that occur at or near the bedside. Thanks to the wall-mounted depth sensors, it also has a powerful and unique capability: a “Rewind and Review” feature. This helps determine the nature of the fall and shows activity before and after the fall—accidental, avoidable, intentional, witnessed or not, including staff response. This capability revolutionizes post-fall assessment intervention protocol, enabling far better decisions about appropriate diagnostics and treatment. It also increases the efficiency of that process, empowering nursing staff to direct their efforts to activities with the highest resident priority and benefit.

Note: It is important not to confuse Foresite Eldercare with traditional video monitoring or “virtual sitters,” which are subject to the expense and limitations of human labor. Further, while recording traditional video does not adhere to HIPAA rules, Foresite Eldercare’s approach is privacy-preserving and HIPAA compliant.

HEALTH ALERTS
Sometimes changes in residents’ health are so subtle that they go unnoticed. Foresite Eldercare’s automated algorithms are changing that reality. By identifying and alerting to these micro-changes, it becomes possible to intervene when symptoms and changes in behavior are still mild. Such intervention can potentially prevent costly and risky hospitalizations. What’s more, the algorithms can often identify depression or an escalation of symptoms of dementia, allowing these conditions to be managed clinically and supporting better outcomes through early detection.

How It Works
Foresite Eldercare combines sensors and software to revolutionize the way senior living communities monitor and care for residents. As no human ever could, the solution’s under-bed sensors and wall-mounted depth sensors continuously monitor and interpret residents’ movements. The sensors communicate that data to Foresite Eldercare software—which transforms it into game-changing insights for improving long-term care planning and in-the-moment actions.
HANDS FREE
With Foresite Eldercare, residents are not encumbered by wearables or wires. Nor is it necessary for them to remember how to press a button or pull a cord to get the help they need. The under-bed sensors and wall-mounted depth sensors continuously monitor movements—issuing proactive alerts to staff when movements suggest a potential fall. Under-bed sensors also detect bed restlessness and monitors heart rate and respiratory trends.

DATA THAT DOESN’T QUIT
Without disruption to the resident’s quality of life, the system continuously captures data that’s objective, reliable and real time. All of this data is invaluable in two core ways. At the individual level, it helps identify activity patterns and trends in pulse and respiratory rates—insights that may indicate changes in a person’s health status. And at the community level, these insights are useful in evaluating overall performance and effectiveness.

PREDICTIVE ANALYTICS
This solution’s artificial intelligence and deep machine learning algorithms identify residents at high risk for falls. The solution can also alert when there’s a change in condition or an emerging acute illness. How, exactly, can it make these predictions? For its fall risk predictive modeling, Foresite Eldercare incorporates a multi-factor analysis that includes bed occupancy, bed exits, sit-to-stand time, use of assistive devices and the validated and universally respected Timed Up and Go test.

PRIVACY PRESERVED
The solution’s infrared depth sensor captures 3-D images and reduces them into two dimensions that appear as silhouettes. It allows an observer to determine activities of an individual within view of the depth sensor without detailed characteristics of facial features or discrete body parts. Thus, it preserves patient privacy and dignity—and is fully HIPAA compliant.

DIGITAL ALERTS—ON THE GO
What happens when Foresite Eldercare’s algorithm identifies activity that suggests a resident is getting ready to fall? It issues a Bed Exit Alert—and delivers it using each facility’s preferred method (secure text or call system integration, for instance). The solution also issues daily predictive health alerts when it detects physical and non-physical changes that are often the most prevalent predictors of acute illness. Often, these changes can be identified and alerted on before symptoms become otherwise detectible.
Defining the Future of Senior Living—Together

Foresite Eldercare shows what is possible when artificial intelligence augments the human touch: More comprehensive monitoring. Improved convenience and safety. And unprecedented insights to help prevent and address health issues among residents. That translates into higher resident and family satisfaction. Fewer adverse events leads to higher reimbursements in value-based payment programs—along with higher Nursing Home Compare ratings.

Working with STANLEY Healthcare, senior living communities can tailor this solution to meet the distinct needs of a facility and/or resident population. As with all our portfolio solutions, Foresite Eldercare is backed by our By Your Side™ Lifetime Customer Care program. Structured to span the entire lifecycle of STANLEY Healthcare’s portfolio solutions, the By Your Side program combines a range of services to help ensure that every community is successful in achieving their resident safety and security goals.

About STANLEY Healthcare

STANLEY Healthcare partners with senior living communities to elevate resident quality of life with a unified suite of proven solutions that enable a safe and secure environment, allow for greater resident independence, enhance staff productivity and operational efficiency and personalize resident care. These solutions are complemented by consulting, training, implementation and integration services. STANLEY Healthcare is proud to be part of Stanley Black & Decker, Inc. For more information, visit www.stanleyhealthcare.com or email seniorliving@sbdinc.com.