

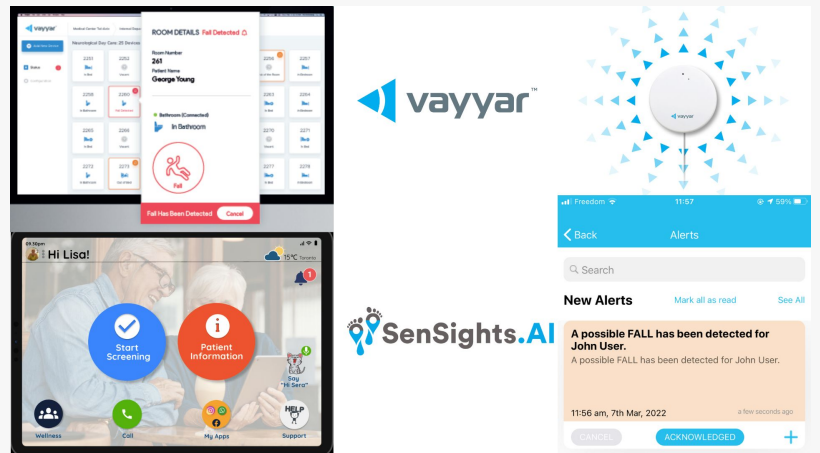
Empowering Caregivers: Unveiling Groundbreaking No Camera Fall Detection Solution with SenSights.AI and Vayyar

Enhancing senior safety, one of the largest long-term care facilities with over 250+ seniors in Ontario pilots 122 units of an innovative fall detection system

TORONTO, ONTARIO, CANADA, August 21, 2023 /EINPresswire.com/ -- One of the largest long-term care and skilled nursing facilities with over 250+ seniors in Ontario, Canada, the leading provider of specialized mental health care, physical rehabilitation, and complex care services, joined forces with [SenSights.AI \(operating as LocateMotion\)](#), the leading RPM provider and official distribution partner of [Vayyar](#), to deploy an innovative fall detection system. The project was funded by the province's test of change investment to see innovative solutions in action especially in the aging in place segment. It aimed to address chronic falls among seniors with complex medical conditions or mobility issues, significantly enhancing resident safety and quality of life.



Deployment of innovative fall detection system in one of the largest long-term care facilities with over 250+ seniors in Ontario



SenSights.AI RPM Platform and Vayyar Fall Detection System

The comprehensive solution encompassed both software and hardware components, utilizing existing Wi-Fi connection for seamless communication. Vayyar, a renowned technology company specializing in radar-on-chip technology, provided the Touchless Fall Detection sensors that swiftly identified falls and tracked presence data, enabling timely intervention and care with advanced 4D imaging technology. Notably, Vayyar's camera-free approach ensures the privacy of seniors, allowing them to age

with dignity while benefiting from enhanced safety measures. SenSights.AI offered the Remote Patient Monitoring (RPM) software, empowering caregivers with notifications, trend insights, and historical data. This comprehensive software platform further optimized the fall detection system, streamlining caregiving processes and ensuring prompt notifications to caregivers within two minutes for timely assistance.

Falls are the second leading cause of unintentional injury deaths worldwide, with an estimated 684,000 individuals dying from falls globally each year, of which over 80% are in low- and middle-income countries (1.WHO). Adults older than 60 years of age suffer the greatest number of fatal falls (1.WHO). Falls account for 85% of injury-related hospitalizations among seniors and are responsible for 95% of hip fractures in this age group (2.CDC). The economic impact of falls is significant, costing over \$50 billion annually to the US (3. CDC) and \$29.4 billion to Canada (4. Parachute).

The collaborative solution provided by SenSights.AI and Vayyar addresses this pressing concern, providing caregivers with valuable insights and timely alerts to minimize the impact of falls on seniors' well-being.

The fall detection devices also tracked presence within specific room subregions, enhancing monitoring and response efficiency. The data analytics further facilitated insights into resident activities, including average bed and bath times. By analyzing patterns and behavior, this data can offer insights for early physical disease detection such as urinary tract infections due to monitoring bathroom visits, identifying low activity levels that may signal potential health issues like bedsores and other conditions.

During the pilot phase, 122 fall sensors were installed in 67 rooms, and over the course of 1 year (including design, deployment and monitoring), almost 80 falls per month were detected which was close to the actual number of falls. The number of falls detected during this time showcased the potential for significant man-hours (nurses, caregivers, personal support workers) savings especially with 24/7 monitoring and a significant impact of SenSights.AI's RPM and Vayyar's fall detection system in identifying and alerting caregivers about fall incidents.

Despite the novel deployment challenges and COVID-19 restrictions, the continuous monitoring and timely identification of falls offered by SenSights.AI's and Vayyar's solutions had significant benefits. The project helped reduce 2 nurse night shifts in a month especially on the dementia floor. This not only optimized caregiver efficiency but also led to a reduction in nurse travel time and average time spent per patient, ensuring that valuable healthcare resources were utilized more effectively. The integration of this comprehensive fall detection system brought significant improvements to the quality of care and safety for seniors at this Ontario long-term care facility.

The partnership between SenSights.AI, the leading RPM provider and official distribution partner of Vayyar, and one of the largest long term facilities in Ontario demonstrated the commitment to

innovation and patient-centric solutions.

Having gained valuable learnings from the project, SenSights.AI is now focused on making necessary changes and improvements to further enhance the fall detection system, minimizing errors and implementing the fall prevention capabilities to improve senior care.

As the long-term care facility at stake continues its journey to be 'New Hospital Ready' and foster innovation in healthcare, the collaboration with SenSights.AI, the official distribution partner of Vayyar, underscores its commitment to advancing patient care and safety.

The SenSights (o/a LocateMotion) has been developed and funded by its parent company [MarkiTech](#).

Book a meeting with us to learn more about SenSights, Remote Patient Monitoring & Touchless Fall Detection. See below.

(1) WHO (2021). Falls. Fact Sheet. Retrieved from: <https://www.who.int/news-room/fact-sheets/detail/falls>

(2) CDC. Hip Fractures Among Older Adults. Retrieved from: <https://www.cdc.gov/falls/hip-fractures.html>

(3) CDC. Cost of Older Adult Falls. Retrieved from: <https://www.cdc.gov/falls/data/fall-cost.html>

(4) Parachute. Cost of Injury in Canada. Professional resources. Retrieved from: <https://parachute.ca/en/professional-resource/cost-of-injury-in-canada/>

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