



# Midwest-Based Senior Living Organization Experiences a 91% Increase in Fall Management Effectiveness with Dele Detect™

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Leading Senior Living organizations are increasing their utilization of and reliance on technology. This tech surge is especially true for solutions focusing on fall management. With this growth, there is an increasing demand for accurate, reliable, and affordable fall detection, prediction, and protective interventions.

## Introduction

Falls have a widespread and significant impact on health, can be deadly, and often result in high costs for individuals and senior living communities. Of the nearly one million older adults residing in senior living communities in the United States, approximately 50% will have a fall within the first 12 months of moving into a community.

These research findings from a Midwest-based senior living organization illustrate the importance of adopting a comprehensive, technology-based, fall management solution and proves that pull cords and pendants alone are not sufficient.

## Approach & Methodology

A dataset collected from older adults in memory care apartments equipped with pull cords, pendants and the Dele Detect™ fall detection solution was analyzed for this study.

### Sensors Placed Throughout Resident Apartment

Dele Detect™ is a resident-first, dignified technology fall management solution that uses discreet, non-camera based sensors. The sensors were placed strategically throughout the entire resident apartment, including the most private areas, such as the bathroom. The entire resident apartment was under the protection of Dele Detect™.

The fall management solution used in this study is comprised of sensors, AI technology and seamless integrations into the organization's nurse call system of choice. Wall-mounted sensors were placed in the bedroom, bathroom, and entryway corridors. The sensors were used to detect resident movement and presence in the bedroom, hallway and bathroom. The sensors were installed in addition to the pull cords and pendants, already in place.



Approximately 50% of older adults who transition into a senior living community, fall within the first year. Oftentimes they'll fall, get themselves up and never tell anyone.

Then it happens again and again, and the next thing you know, the resident has an injury that requires a hospital stay.

That's where technology can help to identify all falls immediately so residents can get help.

Dr. Raj Shah  
Alzheimer's Disease Center  
at Rush University



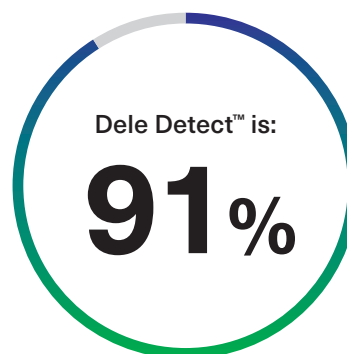
### Smart Alerts™ Notify Nurses of a Fall Within Seconds

When a fall event was detected by Dele Detect™, a Smart Fall Alert™ was sent to the care team within seconds through the community's existing nurse call system, allowing staff to assist the resident immediately. When the resident was found on the floor, or if the resident self-reported a fall in response to the alert, the fall was executed in the existing nurse call app and additionally into the electronic health record, denoting if an injury was present.

The Smart Fall Alerts™ allowed caregivers to indicate if the resident had fallen with or without injury with one touch.

## Results

After analyzing the Dele Detect™ aggregated data generated and triangulated from the nurse call and EHR reports, the following conclusion can be made:



**MORE EFFECTIVE THAN PULL CORDS AND PENDANTS ALONE¹**

## AT-A-GLANCE

### Goal

This Midwest-based Senior Living organization was looking for a fall detection solution that would capture every resident fall in their apartments and immediately alert the care team - including bathroom areas, where older adults are often most vulnerable.

### Dele Detect™ Benefits Realized

- 91% more effective than pull cords and pendants¹
- Contributes to longer lengths of stay
- Reduces future falls and hospitalizations

Each of the resident apartments in this study were equipped with pull cords, pendants and Dele Detect™ technology. In 91% of the falls that occurred, residents didn't activate a pull cord or pendant. Residents activated a pull cord or pendant only 9% of the time.

### TAKEAWAYS:

Relying only on pendant or pull cords does not provide adequate fall protection.

Dele Detect™ identified and reported every fall to the nurse call system.

### Undetected Falls Can Lead to Hospitalizations and Reduced Lengths of Stay

According to the National Institutes of Health, an overwhelming 72% of people who suffer a fall-related injury fail to report it.<sup>2</sup>

In our study, 92% of the falls occurred without an injury, however, 7.5% did result in an injury. Without Dele Detect™ as part of their fall management solution, most of those community falls would have gone unreported - leading to potential unreported future falls, hospitalizations, and reduced lengths of stay.



## Conclusion

The data analysis effectively demonstrates Dele Detect™ to be a reliable and accurate fall management technology and 91% more effective than pull cords and pendants alone. The reliability and accuracy of Dele Detect™ offers considerable benefits to older adults, caregivers, and senior living communities, including:

→ **Quick Responses to Falls Lead To Fewer Adverse Outcomes:**

Responding quickly when a fall occurs can avoid long lies of time, improve health outcomes, manage costs related to injury, and in some cases prevent injury or death.

→ **Increases Occupancy & Elongates Lengths of Stay:**

By providing protective fall technologies, organizations increase occupancy by providing residents and family members peace of mind over their care. Additionally, by helping residents remain independent for longer periods of time, this can increase the lengths of stay within communities.

→ **Provides a Dignified Solution:**

As the only non-camera fall management solution, communities can protect the entire residents' apartment, including the bathroom with Dele Detect™.

→ **Prevention of future falls:**

Using data and technology will provide better insights and prevent future falls in senior living.

To learn more about our comprehensive fall management solution, contact us at [hello@delehealth.com](mailto:hello@delehealth.com)

<sup>1</sup>. Aggregated data collected from a Midwest Senior Living Organization, and cross referenced with nurse call and EHR data indicated where resident apartments equipped with pendants, pull cords and Dele Detect™, residents did not, or were not able to, pull cords or access pendants. Dele Detect™ solution detected falls 91% more effectively than the pull cords and pendants alone.

<sup>2</sup>. Underreporting of Fall Injuries by Older Adults: Implications for Wellness Visit Fall Risk Screening  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6105546/>