

Keenly Health, Carlyle Place, Navicent Health and Mercer University work together to implement the senior living industry's first radar-based, non-contact resident monitoring system



The Problem

The aging population represents an enormous market for technology. The Silver Tsunami has made landfall and projections from the U.S. Census Bureau point to 2030 as a milestone year in which older people will actually outnumber children. By 2050, 22% of the American population will be 65 years old and over. This is a significant increase from 1950 when only 8% of the population was 65 or over.

As the senior population continues to grow over the next few decades, there will be a persistent shortage of skilled workers. Breakthrough technologies are needed to fill the gap. Technology innovation is shaping the future of post-acute care and senior living.

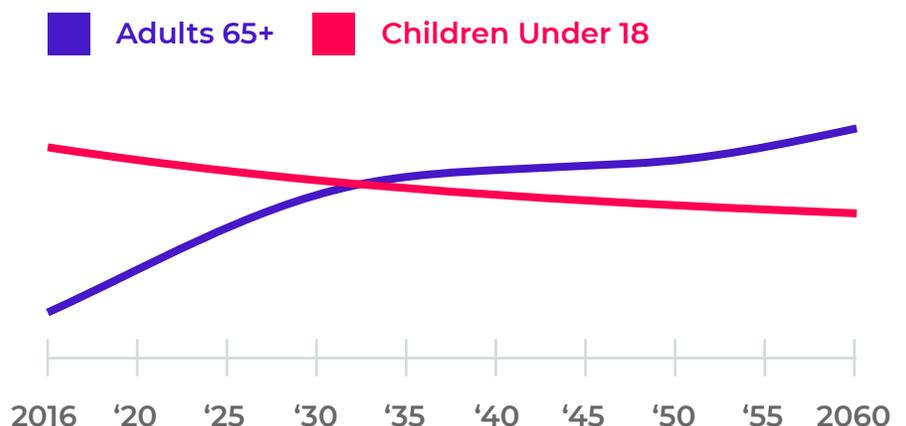
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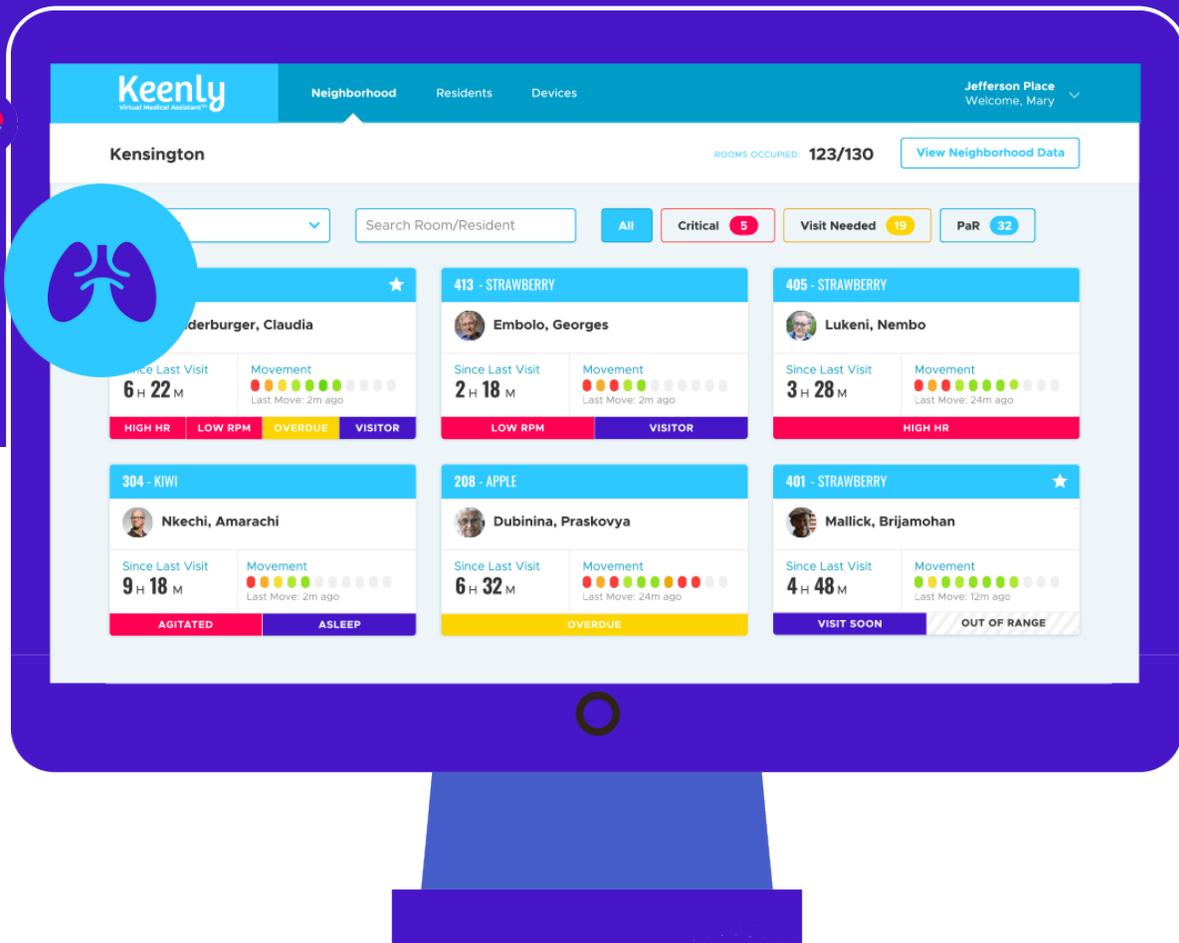
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The simple, all-in-one device discreetly and continuously monitors residents' vital signs, movement and visitor presence.

Information is securely transmitted to the Keenly Dashboard; which caregivers can view from anywhere using their smartphone or PC.



In addition to the base set of data available from the Keenly's radar and thermal sensors, Keenly's in-room module is also capable of connecting with other Bluetooth devices, e.g., blood pressure cuffs, thermometers, glucometers, pulse oximeters, etc., providing a convenient, self-contained method of obtaining additional data specific to a resident's needs.





In the fall of 2019, Dawn Dunbar introduced Keenly Health to two college interns who live at Carlyle Place, Navicent Health. Junior Ava Nguyen and senior Elise Colquitt are the first two Mercer University students to participate in a new integrated housing program where students are housed at Carlyle Place NH life plan community in Macon. The interns work 10 to 15 hours a week with assisted living and independent living residents and have a budget to plan activities for them.



Keenly Health has developed an amazing new technology for long-term care. Having a non-contact, unobtrusive sensor in our skilled nursing rooms that can monitor visitors coming in and out will help keep our residents safe and secure. The 24/7 cloud-based monitoring helps keep care programs on track and in compliance with industry regulations.

DAWN DUNBAR
Chief Administrative Officer,
Carlyle Place

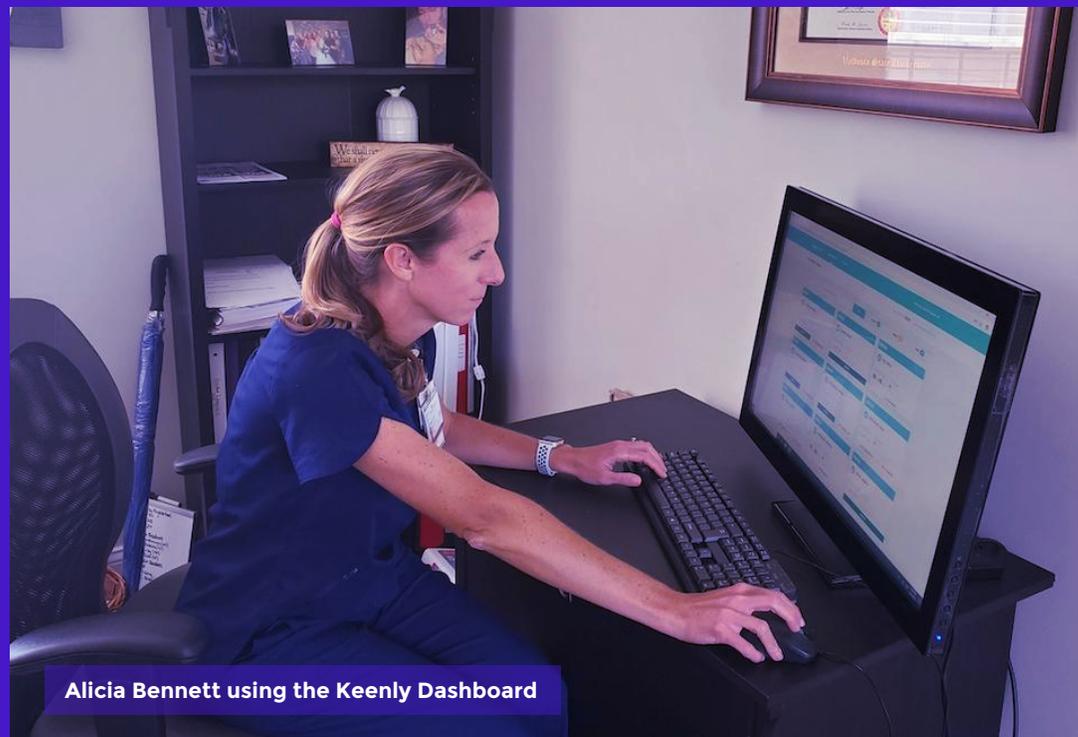
The Intergenerational Housing Program was inspired by a program in the Netherlands. With assistance from Mercer psychology professor Dr. Tanya Sharon, Ph.D., 2019 Mercer graduates Carson Outler and Anna Stalling completed a feasibility project that included a quantitative survey and a focus group to gauge student interest. The project was then presented to several senior living communities in the area.

“We followed that model (in the Netherlands), and we recognized that it was possible,” said Outler, who earned a bachelor’s degree in psychology at Mercer. “We finally found the right people at Carlyle Place to make that dream a reality.



Elise Colquitt & Ava Nguyen with Carlyle Place residents

Elise and Ava are working with Alecia Bennett, Carlyle Place Director of Nursing, and her care team to help implement the Keenly Virtual Medical Assistant™ and to take advantage of some key features. One key feature is the Keenly Virtual Medical Assistant™ sleep monitoring which helps avoid waking up residents in the morning if they did not sleep well during the night. Another feature Carlyle Place is implementing is the bed exit tracker. This feature can be set for a period of time (e.g., 9 PM to 7 AM) and time threshold (e.g., 20 minutes). So, when a resident exits their bed and does not return within the threshold period, an alert is sent to the Keenly Dashboard and the care staff can also get a text message alert. All the tracking is done through a non-contact biosensor.



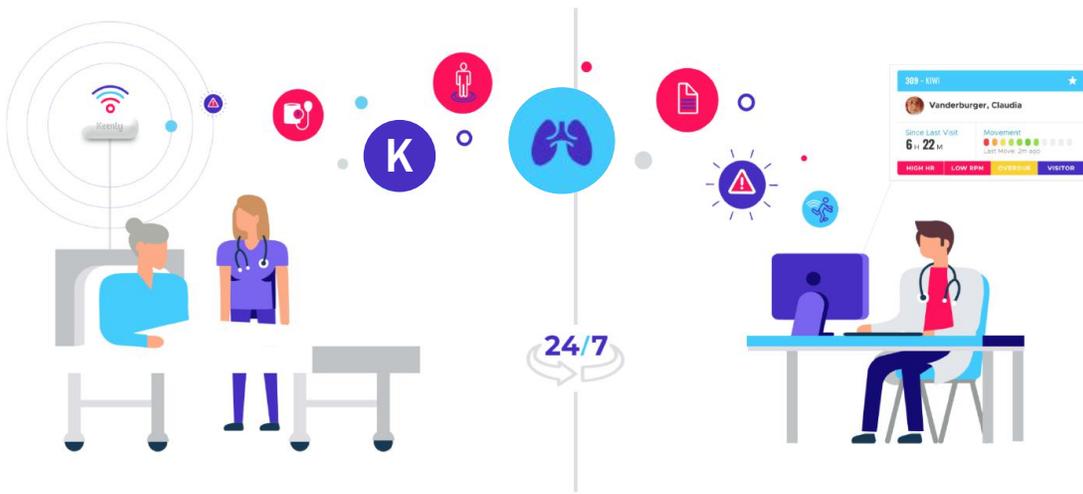
Alicia Bennett using the Keenly Dashboard



Senior living providers are having to adapt to major changes underway in the aging population market. Leveraging innovative technology, like the Virtual Medical Assistant™, will help my care team provide high touch, personalized, patient focused care to all of our residents.

ALECIA BENNETT
Director of Nursing, Carlyle Place





The Keenly Virtual Medical Assistant™ is a game changing technology for senior living providers. It incorporates Sensors, IoT and Big Data into a turnkey solution that improves care and helps seniors remain independent and out of hospitals.

There are no wearables, no attachments, and no resident compliance required. This helps avoid cross contamination. Individualized respiration and movement analysis provide early warning signs of health deterioration (pressure ulcers, falls, pneumonia and other possible health issues).

Passive, unobtrusive and reliable monitoring saves time, supports attentive care and respects resident's privacy/independence. Collect multiple types of data from a single device, for a more complete view of resident health.

The Keenly Virtual Medical Assistant™ helps improve resident, family and employee satisfaction. Keenly Health's mission is to help senior living providers deliver high quality, patient focused care to all residents.

For more information, contact Paul Pelt.

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Sources

1: National Population Project, 2017, <https://www.census.gov/library/visualizations/2018/comm/historic-first.html>

2: Mercer Students, Senior Center Residents Forge Friendships Through New Program, Andrea Honaker, Oct 4 2019, <https://news.mercer.edu/mercer-students-senior-center-residents-forge-friendships-through-new-program/>