

The Beeches, Parkhaven Trust, Liverpool: circadian lighting, acoustic monitoring and mobile care monitoring

[The Beeches](#) is a new residential and nursing service for people with dementia. The service has been designed with guidance from the Dementia Design Centre at Stirling University to provide the highest quality environment to cater for the needs of people with dementia. It consists of three households which will care for up to 15 people each. Parkhaven Trust has installed circadian lighting, acoustic monitoring and electronic care planning to ensure that people are supported and cared for using the latest technology and to support staff to spend more time with people.

Benefits

Parkhaven has identified the following significant benefits to the use of these technologies:

- Mobile care planning allows staff to identify and respond to changes in care more quickly and to ensure care plans are always up-to-date.
- Mobile care planning has led to improvements in care as staff are spending less time on recording and more on supporting residents
- Circadian lighting has led to improvements in sleeping patterns and reduced agitation amongst residents. Acoustic monitoring allows this to be measured while reducing the number of potentially disruptive room checks.
- Better analysis and evidence to support individuals' care planning, service development and CQC inspections
- Regular audits and reports are making use of the new data that is being created since implementing acoustic monitoring and circadian lighting. This allows staff to understand where to make changes to care arrangements.
- There has been a reduction in the number of falls.

The Innovation Hub Virtual Visit (Hubble Project)

The Beeches innovation hub will enable senior leaders and digital leads in other care provider organisations, as well as other key stakeholders, such as commissioners, to explore different technology, and understand:

- How the technologies work and how they have benefited residents, staff and management.
- How they were introduced including: making the business case for investment; cultural change and getting buy-in from staff, residents and families; training and supporting staff; working with digital and technological suppliers
- Lessons learned – what worked, and what did not work. What the service would do differently.
- Future plans – how the service plans to develop technology further.
- How to find out more

Managers, staff, and technology suppliers will be on hand to answer questions.

The Hubble virtual visits will be particularly valuable to senior leaders, digital leads and commissioners involved in social care who want to know more about the potential of electronic care planning, circadian lighting and acoustic monitoring.

The online sessions will run between September and December with 10 attendees per session—with a maximum of two visitors per organisation per Hubble innovation hub.

[Request a space for a virtual visit](#) to The Beeches Hubble

You can find more information about Hubble on our [website](#) or by emailing Hubble@nationalcareforum.org.uk.

The following technology is being showcased:

[Circadian Lighting by Whitecroft Lighting](#): Circadian lighting aims to support healthy sleeping and waking patterns by using light to influence the human body clock and our natural 24 hour circadian rhythm.

[Acoustic Monitoring by CLB/Adaptive IT Solutions](#): Acoustic monitoring is in place in all bedrooms and non-intrusively listens to sleeping residents and triggers an alert when the sound level in a room exceeds individually set thresholds. This enables staff to swiftly respond to residents in need of care. Continuous monitoring replaces routine in-room checks, so peacefully sleeping residents are not disturbed and staff are free to focus on those whose distress has triggered an alert.

[Mobile Care Monitoring by Person Centred Software](#): Parkhaven uses a range of Mobile Care Monitoring products to provide comprehensive evidence of care, care planning and a reporting system. Care staff use the Care App installed on work-issued mobiles to quickly write up daily records, health care notes and observations such as weight, height, BP, SPO₂. They can also be used to communicate issues at handover using graphics and text. The Care App is connected to Care Monitoring - a web application for team leaders and managers - which uses information from the Care App to track important actions, add planned care, monitor the effectiveness of care and improve the management of care delivery. Digital Care Planning tools also enable staff to view and amend care plans centrally or on the handset, ensuring that all colleagues have access to the most up-to-date care plan.

Note: *There are other suppliers of circadian lighting, acoustic monitoring and electronic care planning systems. We will not pass on the details of Hubble visitors to any technology suppliers unless you request us to do this.*