A urologist in the Trust invented a tool for taking prostate biopsies in a new way, which vastly reduces the rate of post-procedure infection.

Clinical Engineering designed and manufactured prototypes for a research trial, which was a great success.

Now we’re working on an NIHR i4i-funded project along with the inventor, manufacturers and the Clinical Trials Unit to develop the device into a CE marked single use disposable product with an estimated market of £50 million annually.
Hear Glue Ear

If glue ear means a young child is unable to hear properly, it can affect speech and language development as well as everyday life. But diagnosing it takes many months.

A clinician had an idea to use consumer bone conduction headphones to improve patients’ hearing during the ‘watchful waiting’ period. We assessed the device, designed the required modifications and assembled the documentation required for a CE marked medical device.

A product is now ready for in-house use and on its way to being commercialised.

Stem cell injector
A specialist syringe was required to implant very small volumes of precious stem cells into the brain to help treat Parkinson's disease. The only commercial solution was too expensive and complex, with inadequate materials traceability.

We designed a simpler, lower cost device for single use. We rapidly translated the clinical need into a working concept, safely developed and tested.

Our solution enabled internationally renowned scientists to undertake ground breaking research in-house.

Assistive switch for PCA

Patient-controlled analgesia (PCA) is the gold standard for pain relief on wards, but 20% of patients can’t physically press the switch button.

We mapped the network of stakeholders and developed a solution using rapid prototyping to test and iterate our concepts.

We manufactured 3 switches and they are managed by the Medical Equipment Library, where they are loaned to wards as and when they need them.