

Impact Facts

Charitable expenditure highlights for August 2017

act
**Addenbrooke's
Charitable Trust**
Registered charity number: 1170103

August 2017

Helping hand therapy patients recover more quickly

The majority of occupational therapy patients being seen following hand injury or hand surgery have scar tissue, tendon injury and/or ligament injury. Ultrasound waves can help to reduce pain and muscle spasms, increase blood flow to the site of injury and stimulate the production of more collagen.

Patients who receive hand therapy ultrasound can have a speedier and improved recovery, allowing them to return to work and other activities of daily life as soon as possible.

To enable as many patients as possible to be treated with hand therapy ultrasound, the occupational therapy team has fundraised **£1,400** to buy a second machine for their department. Having a second machine reduces disruption and waiting times and improves the patient experience.



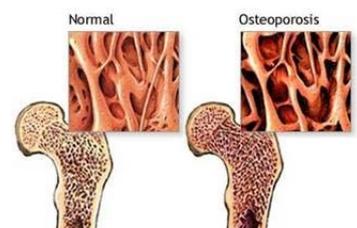
Improving bone disease research and diagnosis

The bone research lab's existing bone histology microscope is being improved to expand its use, with **£17,000** of funding.

Specialist 'bolt on' equipment is turning the microscope's current high quality optics into an automated image capture system. This system allows the team to automatically take large microscope images of patients' bone biopsies.

The specialist equipment connects to the existing manual microscope and camera, but then takes over the focusing, stitching together of images and creation of a 3D 'in-focus' dataset to help the team understand and diagnose various bone conditions.

The updated equipment is central to research being undertaken into why hip fractures occur. It is also used for the clinical service when images are shared across video link with the Eastern region bone disease multi-disciplinary team.



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Mobility for children following orthopaedic surgery

Funding of **£2,000** has bought a Chunc Spica wheelchair to provide mobility for children who have had orthopaedic operations and are in hip spica casts or other braces such as radial leg extension braces.

This specialist wheelchair provides highly configurable leg supports and backrest to accommodate the awkward position created by the large post-operative plaster. The chair facilitates early discharge from the hospital environment to the comfort and security of the home, and allows continued participation in social, education and therapy environments.



Other items ordered in August through ACT:

- Cuddle cot for mortuary £1,600
- Biopsy arm and ultrasound probe for urology patients £16,000
- 5 x e-flow nebulisers for cystic fibrosis patients £2,600
- 2 x wheelchairs for neurology patients on Wards A4 & A5 £5,000
- Paediatric cardiac simulator £24,000
- Upgraded spinal operating table for neurosurgery £50,000
- 100 x micro-array cards for ICU research £24,500