

**The National
Brain Appeal**
Funding advances
in neurology and
neurosurgery

**Annual
Report
2018**

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Brain Appeal**
Funding advances
in neurology and
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NEURO
MUSCULAR
BRAIN INJURY
STROKE EPILEPSY
DEMENTIA
PARKINSON'S
MIGRAINE
SPINAL
MULTIPLE
SCLEROSIS

INNOVATION

A woman with long dark hair and a grey scarf is shown in profile, looking towards the right. The word 'INNOVATION' is written across the bottom of the image in a large, light grey, sans-serif font. A white outline of a lightbulb is integrated into the letter 'O' of 'INNOVATION', with a green filament inside. A white diagonal line runs from the bottom left towards the top right, passing through the lightbulb icon.



Theresa Dauncey,
Chief executive,
The National Brain Appeal

“2018 has been a very special year

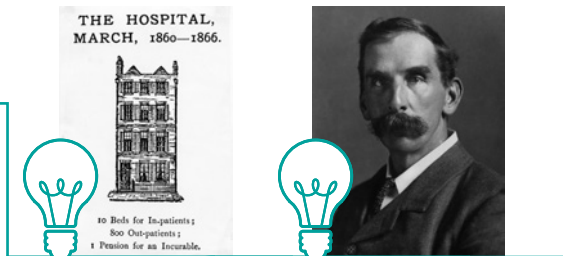
– the NHS, one of the nation’s most-loved institutions, had its 70th birthday, and here in Queen Square, The National Hospital completed a £23m redevelopment. The newly modernised facilities are now ready to meet the needs of the increased numbers and complexity of patients that come through its doors. The redevelopment will also enable research and innovations in patient care – a crucial part of the long-term vision at Queen Square.

The National Brain Appeal has had a busy 12 months too. Not only were key parts of the £23m redevelopment supported by your donations (see p5 for more on this), we have been working on our six new funding areas that launched in 2017. There has been a strong focus on Innovation and Technology throughout Queen Square this past year, so we highlight this here – from the earliest pioneers to the current groundbreaking projects that we are funding right now. Our hope is that these transformative ideas will improve life for the one in six affected by a neurological condition.”

INNOVATION OVER THE YEARS

The National Hospital has a rich history of innovation from its very beginnings back in 1859.

It was the world’s first hospital for those with neurological conditions, and was responsible for groundbreaking research into many conditions, and renowned for its neurosurgical work. Queen Square has been a world-leader when it comes to clinical excellence for well over a century now – something to be cherished and celebrated.



1859-60

Sisters Johanna and Louisa Chandler lobbied to set up the first-ever hospital for the treatment of neurological disorders.

1886

Victor Horsley (‘the father of neurosurgery’) was appointed. He was the first person to remove a spinal cord tumour and bind an artery for a cerebral aneurysm.

BRIGHT IDEAS

This year we are funding three distinct innovative projects – stemming from ideas by forward-thinking Queen Square clinicians – all of which aim to improve the prospects for patients with neurological conditions.

IMMUNOTHERAPY

Brain tumours remain one of the hardest cancers to treat effectively – and new treatments are desperately needed to improve the success rate. Dr Paul Mulholland is kicking off a trial this year which will use immunotherapy to treat glioblastoma, an aggressive form of brain cancer. This phase-two trial involves the use of ipilimumab, which has delivered remarkable results in patients with the skin cancer melanoma (the two forms of cancer share genetic similarities). More than 18% of patients with advanced melanoma who received the drug were alive after five years.



(L-R) Dr Paul Mulholland, Bernadette Porter and Prof Lisa Cipolotti

Dr Paul Mulholland, the consultant oncologist leading the trial, says: "This is the most important trial for brain cancer patients in the last 15 years. It's a big opportunity to have this drug, which has transformed the lives of some people with melanoma." Patients are currently being recruited to the trial, which will begin in autumn 2018. We are raising £250,000 to support the running costs. To donate, see [justgiving.com/campaigns/charity/tnba/immunotherapy](https://www.justgiving.com/campaigns/charity/tnba/immunotherapy).

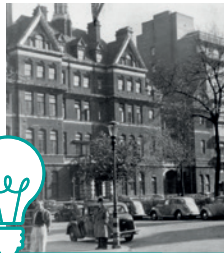
NEURORESPONSE

The UK's first-ever consultant MS Nurse, Bernadette Porter, works with colleagues running specialist clinics in Queen Square for around 3,000 people affected by multiple sclerosis (MS). She also works with colleagues across London on improvement initiatives. She saw that a huge number of unplanned hospital admissions for MS patients were for urinary tract infections (UTI). If this issue was caught early it could be effectively treated at home using the right medication, freeing up hospital beds, saving distress to the patient, and NHS



1904

Hospital grows to 70 beds, a surgical wing and two operating theatres, along with the world's first neurology and neurosurgical nursing school.



1938

Opening of a large extension of the hospital, with surgical department and the Institute for the Teaching and Study of Neurology.



1960

Sir Roger Bannister (above, far right), famous for running the first sub-four-minute mile, is appointed. A pioneer of autonomic neurology (the autonomic nervous system controls everything from digestion to the heartbeat), he sets up a specialist unit.

We have committed £655k to support these projects

money. Bernadette realised there was a need to give these patients more control over the care they received.

NeuroResponse was born, and its key aim is to combine technology and humanity to improve the

quality of life of people living with long-term conditions such as MS. It includes electronic care plans linked to NHS 111 and specialist nurses, dipstick screening tools, at-home specimen packs, home collection of samples and fast detection and treatment of UTIs.

Bernadette worked closely with district nurses and GPs to deliver NeuroResponse to a small group of people with complex MS needs.

These patients had a history of unplanned admissions related to UTIs. Since being a part of the test group, infections were detected and treated early and to date, no one has been admitted to hospital with a urinary infection – an incredible result!

Our £250,000 worth of funding will support the scaling up of the expert telephone component across a number of regions and the plan is to adapt it for other neurological conditions.

NEUROPSYCHOLOGY

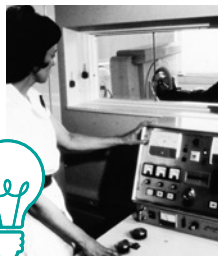
Brain damage caused by neurological conditions or injury can affect cognitive functions such as memory, language and the ability to carry out everyday tasks like planning and reasoning.

Neuropsychological tests which assess these functions and identify the extent of damage are currently paper-based, complex, time-consuming and a task that – until now – has been impossible to simplify or streamline.

For many patients this means they are leaving hospital with unexplained and unsupported symptoms, and often undiagnosed mental health problems. Around 52% of patients are reported to have either depression or anxiety.

Neuropsychologist Professor Lisa Cipolotti and Parashkev Nachev have devised a programme to digitise these complex tests, link them with MRI images of patients' brains and use them to fully assess their mental health and cognitive abilities. Those who are affected can then be diagnosed faster and more easily, enabling them to access better support to improve their quality of life after an illness or injury.

We are raising £155,000 for this project. You can donate at [justgiving.com/campaigns/charity/tnba/neuropsychology](https://www.justgiving.com/campaigns/charity/tnba/neuropsychology)



1973

One of the UK's first CT (computerised tomography) scanners is installed at Queen Square.



2004

Dementia Research Centre created. The research group identified the first Alzheimer's gene and pioneered MRI imaging techniques to detect and track the progression of dementia.



2007

The Centre for Neuromuscular Diseases created. A specialist hub to trial new treatments and research for conditions such as motor neurone disease, myasthenia gravis and muscular dystrophy.

READY FOR THE FUTURE

A four-year £23m programme to modernise and redevelop The National Hospital has now been completed.

With a history going back nearly 160 years, the future of The National Hospital is extremely bright. We are delighted to have raised almost £5m towards this huge project, thanks to your donations.

Our contribution helped to fund the following:

- Building of a new specialist spinal operating theatre
- Doubling the size of the Molly Lane Fox ward for patients with brain tumours
- Creation of a new hyperacute stroke unit service and critical care ward



2011

The UK's first dedicated Brain Tumour Unit with a specialist ward – The Molly Lane Fox ward – is created.



2018

£23m redevelopment and refurbishment of The National Hospital completes.



The National Brain Appeal innovation fund

The National Brain Appeal recently launched the Innovation Fund – enabling the charity to award grants of between £50,000 and £150,000 to the world-leading clinical and research teams at Queen Square.

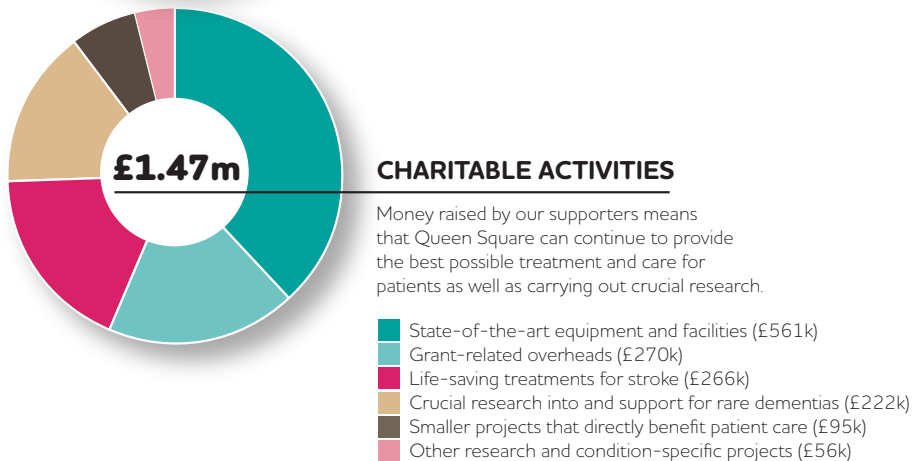
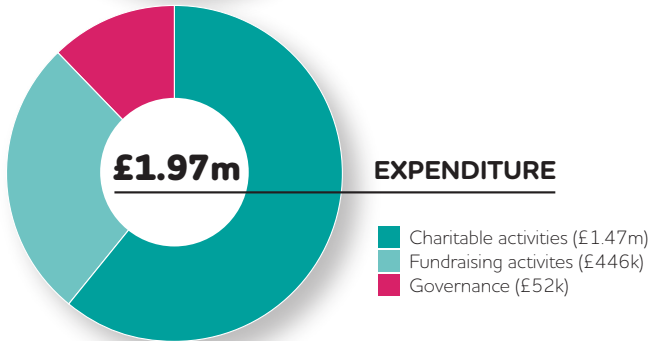
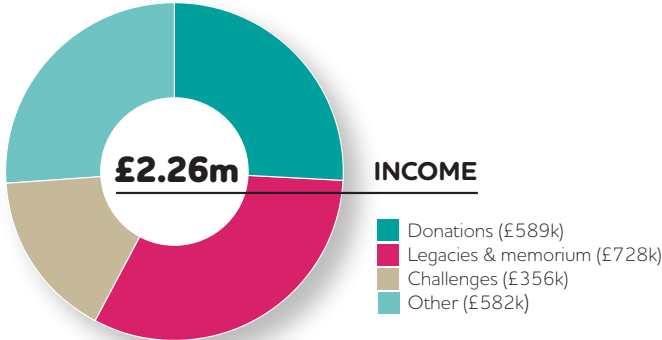
We recognise how essential it is to invest in the latest technology and innovation. Sadly, overstretched NHS budgets and complex processes to pinpoint these new ideas mean that opportunities for progress are being missed. One of the major problems faced by clinicians and researchers today is the lack of initial funding to get pioneering ideas quickly off the ground.

The Innovation Fund ensures that ideas can go quickly from 'bench to bedside' so that clear progress for patients can be achieved. We are looking for Ambassadors for Innovation, individuals who will support our fund and our vision for the future.

Find out more at nationalbrainappeal.org/ambassadors-for-innovation

FINANCIAL SUMMARY

2017-18



MAKE A DONATION

To support our work, please complete the form below. To make a regular donation by Direct Debit, please go to nationalbrainappeal.org/donate or call the office on 020 3448 4724.

I enclose a donation of (tick appropriate box)

- £20 £30 £50
 £100 other £ _____

I would like my donation to go towards (tick appropriate box)

- General Fund
 Neurodegeneration
 Neurology
 Queen Square
 Neurosurgery
 Technology & Innovation
 Education & Staff Development

giftaid it

You can make your donations worth 25% more to people with neurological conditions – simply tick, sign and date the declaration (below):

Yes, I want to Gift Aid my donation and any donations I make in the future or have made in the past four years to The National Brain Appeal.

Signature _____

Date _____

I am a UK taxpayer and understand that if I pay less Income Tax and/ or Capital Gains Tax than the amount of Gift Aid claimed on all my donations in that tax year it is my responsibility to pay any difference.

Please notify the charity if you:

- want to cancel this declaration.
- change your name or home address.
- no longer pay sufficient tax on your income and/or capital gains.

Contact and payment details

Title _____ Forename _____

Surname _____

Address _____

Postcode _____

Telephone _____

E-mail _____

Please tick the box below if:

You would like to receive email updates about our fundraising activities, events and the latest clinical breakthroughs. To find out how we use your data, please see overleaf.

Payment by credit or debit card

Name on card _____

Card number _____

Expiry date on card ____/____/____

Security/CVV code (last 3 digits) ____

Total amount £ _____

Signature _____

Payment by cheque:

Donation amount £ _____

Make cheques payable to The National Brain Appeal

Please send me information on... (please tick boxes)

Leaving a gift in my Will

Making a regular donation by Direct Debit

HOW WE USE YOUR DATA

The National Brain Appeal will never sell or swap your personal data and will only share it, when necessary, with organisations that work with us to manage our data processing and mailings – and where your privacy and security is guaranteed. You can read the full policy on our website. You can unsubscribe or change your mailing preferences at any time by calling 020 3448 4724.

THANK YOU!

Once again, we had a full year of fundraising excitement thanks to you – and all our supporters. We are always impressed by your determination to get out there and raise vital money for Queen Square in so many different ways. For many of the team here, the highlight of working for the charity is getting to know your stories, and supporting you on your fundraising journey. Here are just a few of the supporters over the past year who have put in a huge effort to help others affected by neurological conditions:



1. Comedian (and painter) Jenny Eclair created an artwork for A Letter in Mind 2017
2. Blake Hale, Nada Ibrahim and Brett Sanders took part in Color Run
3. Timothy O'Sullivan and Kirsty O'Driscoll cycled from Land's End to John O'Groats
4. Barbara Busby swam the length of the Thames in a local pool
5. Aimee Jennings trekked the Great Wall of China
6. Jean O'Sullivan was sponsored to co-pilot a Spitfire (pictured here with her family)
7. Clíodhna McCorley threw a lavish ball, A Night For Life
8. Corporate supporter Bindmans held an office summer party



Follow us on **Facebook**, **Twitter** and **Instagram** to see more supporter stories.



Our thanks also to all the grant-making trusts and organisations that have supported our work including:

A. B. David Charity, Consuelo & Anthony Brooke Charitable Trust, Cunningham Foundation, Dentons, Garfield Weston Foundation, Inchcape Foundation, Joseph Strong Frazer Trust, Mark Armitage Charitable Trust, Munnelly Group, Radox Health, Samuel Storey Charitable Trust, Sir Jules Thorn Charitable Trust, Talbot Underwriting, The Foyle Foundation, The Stanley Grundy Foundation, Timothy Franey Charitable Foundation, Toye Charitable Trust, William Allen Young Charitable Trust, and Worshipful Company of Butchers.



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The National Brain Appeal is the working name of The National Hospital Development Foundation. Registered Charity Number 290173.