

Treating Patients, Improving Lives 2018/19



A Modern Day Miracle

The Heart Cells Foundation Family is growing. In this issue we celebrate the team work that is enabling us to give patients back their lives. Through this revolutionary stem cell research programme and pioneering Compassionate Treatment Unit, using a patient's own stem cells to regenerate their heart, patients and their families are experiencing an improved quality of life. One patient described it as "A Modern Day Miracle".

THE FACTS – Why this dream must become a reality...

- Every **eight minutes** a person dies in the UK from coronary heart disease
- Nearly **one in seven men** and **one in twelve women** dies from coronary heart disease in the UK
- Over **2.3 million** people are living with Heart Disease in the UK
- Every **3 minutes** a patient visits a hospital in the UK due to a heart attack
- **915,000** people are living in the UK today with heart failure as a result of a heart attack
- Stem Cell Therapy aims to **restore damaged heart muscle** to improve a patient's quality of life.

The Heart Cells Foundation, at Barts Health NHS Trust, is funding the pioneering research and development of a revolutionary and potentially life-saving treatment that uses a patient's own adult stem cells to repair the heart. Helping those with heart disease, whether they have suffered a heart attack or have developed a weak heart for other reasons.

Compassionate Treatment Pathway

Patients may be considered for compassionate stem cell treatment for their heart failure due to either Ischaemic Heart Disease (IHD) or Dilated Cardiomyopathy (DCM) with no further treatment options available.

How To Access The Stem Cell Treatment

- Referral from a GP or Consultant Cardiologist if patient suffering with heart failure from either ischaemic, congenital or inherited heart disease
- Self Referral contacting the team directly

Screening

- In order to assess eligibility for stem cell treatment, the team requires up-to-date medical history.

Pre Assessment Visit

- Once screened, eligible patients are invited to attend the Compassionate Treatment Unit for pre-assessment to assess suitability. This includes blood tests, a thorough physical examination, ECG and CT scan.
- Results reviewed and patients informed of results.

Hospital Admission

- Once suitability confirmed, patient is admitted for a 5 day course of a bone marrow boosting drug.
- On the 5th day the patient will have a bone marrow aspiration, this is sent to a specialised lab where the stem cells are harvested.
- The harvested stem cells are injected into the patient's heart a few hours later.
- Patient discharged the day after stem cell injection.

Follow Up

- 1 and 3 month follow up to check patient progress.
- 1 year appointment for blood tests, ECGs and scans to assess patient heart function.

Compassionate Treatment Contact

Compassionate Treatment Unit, Cardiac Research Dept., St Bartholomew's Hospital, West Smithfield, London, EC1A 7BE



Professor Anthony Mathur
Director of Interventional Cardiology Barts Heart Centre

Director of the Compassionate Stem Cell Unit

Dear Heart Cells Foundation Supporters

Stem Cell Regeneration is an emerging field of medicine and as leaders in this field at the Barts Heart Centre we continue to treat patients in our compassionate cardiac stem cell unit – the first of its kind in Europe.

The ability to treat patients, who have no further treatment options, in this unique facility has been the direct result of the support you have given us through the Heart Cells Foundation and it is an incredible achievement.

Our ultimate objective is to successfully complete the final stages of the clinical trials that will enable the NHS to deliver our stem cell treatment programme as a recognised therapy available to the 915,000 or so patients with heart failure in the UK. This will require a substantial amount of funding.

The trials that we have already performed (thanks to your support of the Heart Cells Foundation) suggest that we have discovered the best and most cost-effective method for helping patients with heart disease.

I am confident that with your support for our programme we will be able to continue to improve the lives of patients suffering with heart disease and ultimately establish cell therapy for heart disease as a recognised, freely available treatment for the nation. Thank you.

Yours sincerely



Professor Anthony Mathur

Heart Cells Foundation Timeline

2004

Heart Cells Foundation began fundraising at Mansion House.

Trial 1

The first stem cell trial to be ethically approved in the UK.

2005

First trial patient recruited to a stem cell trial in the UK.

2007

Trial 2
Receives ethics approval.

2008

Trial 2
First patient recruited.

2010

Trial 3
Receives ethics approval and recruits first patient.

2011

Trial 1
Recruits last patient.

2012

Trial 3
Recruits last patient.



On The Road To Success...

As leaders in the field of regenerative medicine, planning and fundraising is in full force to ensure that the mission of the Heart Cells Foundation is achieved, to enable the revolutionary stem cell therapy, using a patient's own stem cells to repair their heart, is available to all.

The previous clinical trials proved stem cell therapy has a positive impact on patient's lives which in medical terms is a great achievement. Having published the results, the team now needs to demonstrate the impact of the therapy on a larger group of patients alongside demonstrating the ability to roll the procedure out across the NHS infrastructure. The success of this next phase is needed to seek final regulatory approval along the path to adoption as a recognised treatment. We are a long way down the road to reaching our goal.

We have created a new field of medicine and are committed to raising the £6 million to complete the final phase of the trials and achieve success for patients and their families. The end is in sight and with your support the charity and the team at St Bart's will fulfil the commitment to achieve success.

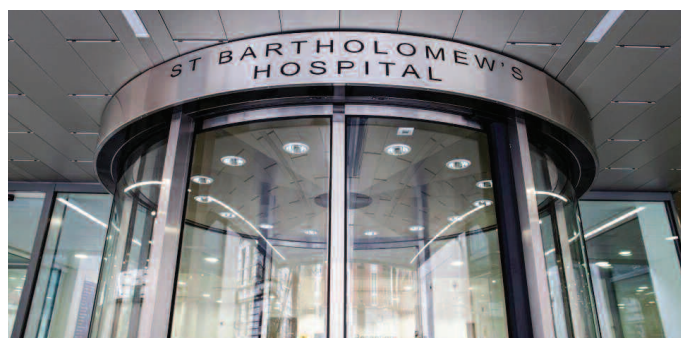
The Trials

Trial 1 – Regenerate IHD – Treated patients with heart failure due to ischaemic heart disease.

Trial 2 – Regenerate AMI – Treated patients within 24 hours of having a heart attack.

Trial 3 – Regenerate DCM – Treated patients with congenital and inherited heart failure.

IHD, AMI and DCM Trials – Phase 1 and 2 completed. Data analysed and results published in medical literature. Final Planning Phase 3 has begun.



Continuing the Commitment to Excellence

It is now 2 years since the opening of the Barts Heart Centre. Time flies! We have continued to make excellent progress in developing the specialised treatments that our patients deserve. One of the advantages of being the largest Heart Centre in the UK is that we can assemble teams of the right specialists to ensure the very best care.

Dedicated teams now look after patients with rare and serious conditions such as endocarditis and aortic dissection and we have seen the mortality of these patients halve in a year. This is a real justification of the philosophy of the Barts Heart Centre and makes us strive harder to provide even better care.

One specialist area of which we are especially proud is Professor Mathur's stem cell unit. I am delighted that the Compassionate Care Programme is treating patients. This is wonderful news for these patients who sadly have no other options for their heart treatment. I am hugely grateful for the support of the Heart Cells Foundation in making this possible.

Professor Charles Knight
Managing Director
St Bartholomew's Hospital



Q So What Are Stem Cells?

A Stem cells are the body's master cells. They are unique because unlike other cells they can turn into almost any other type of cell in the body. Adult stem cells are thought to be the body's natural repair system.

Barts Cardiology are not carrying out any research with Embryonic Stem Cells.

The Trials – Adult Stem Cells

Adult stem cells have been injected into patients with heart failure as well as those who are having a heart attack to see whether the damage caused by these conditions can be reversed.

2013

Trial 4
BAMI starts recruiting – finishes in 2018.

Trial 2 recruits last patient.

2014

Trial 1
2 year patient follow up
Trial 4
First patient treated in London filmed by the BBC.

Patient Gathering at The London Chest Hospital.

2015

Trials finished.

Results submitted for publication.

Planning Phase 3 begins.

2016

Compassionate Treatment Unit launched.

Placebo patients treated.

Fundraising for the final phase of Trials begins.

2018

Treating Patients in the Compassionate Treatment Unit.

Final Planning and Fundraising for Phase 3 of Clinical Trials.

Dear Friends

The success of our research programme continues to go from strength to strength and we have successfully completed Phases 1 and 2 of our Gold Standard Trials. Now with your continued support we are starting to raise monies to fund the Phase 3 Trial.



The Heart Cells Foundation has the full support of St Bartholomew's Hospital and we find ourselves in 2018 joining with Barts Heart Centre where we have opened a dedicated facility located in the 'state-of-the-art' Cardiac Unit. Here we are treating compassionate patients who received the placebo from the first trials, and now we are treating patients referred to us throughout the UK.

The Heart Cells Foundation Family supported by you is funding this groundbreaking research, which is resulting in saving the lives of patients with heart disease and creating a new field of medicine in the 21st Century.



Founder Ian Rosenberg

Ian's dream to ensure this treatment is available to all on the National Health is becoming a reality. We look forward to raising more funds to ensure this happens.

Jenifer Rosenberg

Jenifer Rosenberg OBE

Chairman of the Heart Cells Foundation



Dame Esther Rantzen

Having been involved with the Heart Cells Foundation since its inception, exciting progress is being made and most importantly life-changing progress for patients and their families who previously had no hope.



I am constantly updated of the charity's progress and I have had the pleasure a few years ago of visiting St Bartholomew's Hospital the home of the Heart Cells Foundation Compassionate Treatment Unit. During my visit, along with Jenifer Rosenberg, the Founder, and Trustee, Professor Anthony Mathur explained the progress of the work supported by the Heart Cells Foundation and introduced me to the team who are creating this life-changing field of medicine. I am so delighted that the work of the charity continues to grow.

The dedicated Compassionate Treatment Unit supported by the Heart Cells Foundation Centre will ensure this crucial work continues to improve lives and demonstrates the value of this pioneering work.

However, fundraising is key to this important development and over the years I have met many of the dedicated supporters of the Heart Cells Foundation at the Gala Film Evenings and having participated in the latest appeal film, I see there is living proof of the life-saving impact that this exciting and innovative work can have in improving the lives of patients and their families.

To the supporters of the Heart Cells Foundation I would like to say thank you and congratulations on your vision and commitment. Together we can enable Professor Mathur and his team to save countless lives in the future.



My name is Michael Taylor and I am 60 years old and I am an engineer and live in Lichfield with my family. Eight years ago on my wife's birthday I became very unwell and ended up in the resuscitation department at my local hospital.



My heart rate was well over 200 and after a couple of hours this was reduced and I was moved to coronary care, I then had to await transfer to another hospital miles from home for further tests, it was there that I was told I had dilated cardio myopathy and I could not go home until an icd was fitted. The consultant even told me people with my condition do not live long, I was put there for over three weeks and during that time my wife decided that something must be available somewhere to treat this and spent many hours on the computer looking for a glimmer of hope.

“This treatment has transformed my everyday life with the prospect of living to a ripe old age.”



Finally she found out about the stem cell trials funded by the Heart Cells Foundation and gave them a call. Following many tests I was accepted onto the Regenerate trials funded by the Heart Cells Foundation, I found out a year later that I had the placebo and not

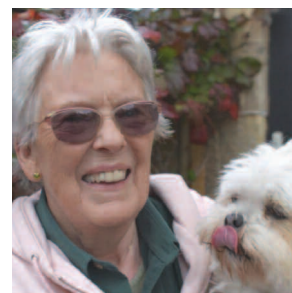
my stem cells. A few stressful years later and thanks to the fundraising of the Heart Cell Foundation and the work of the team at Barts I was admitted for my treatment in June 2017. I was treated so well by all the team and following on from the treatment I began my recovery period, I feel very well and walk and swim and play with my grandchildren. I have returned for my one year check up and it has shown positive improvements. I have been enjoying long walks with my wife on Cannock Chase and she is having to try and keep up with me! I am so grateful for everything the team has done for me and cannot thank the charity and all its supporters enough for making this possible for myself and others.

Michael Taylor, Patient

Visit www.heartcellsfoundation.com to watch our latest video and where you can also donate and support more patients.

We are creating a **LEGACY** for future generations. Leave a Legacy Gift in your will to ensure this dream becomes a reality.

Today I went for a long walk with my dog. As I live in the Cotswolds the walk took in a few steep slopes up and down. Nothing special about this you may think but you would be wrong.



My name is Pat Wilkinson. Working for Amnesty International I went all over the world until suddenly I developed dilated cardiomyopathy and in 2002 I was told by my GP that I must leave work that very day. This I did but my heart deteriorated very rapidly and nearly gave out. I was fitted with a biventricular pacemaker and it gave me my life back. This was the first miracle.

With daily planning I was able to gradually live a fairly normal life but I still had issues, my breathing often gave me trouble, I got very tired and I couldn't stand for very long. Every walk I took I had to remember that I had to come back again and calculate energy and time accordingly. In every street or open space I knew where I could sit down as I often had to "bench hop". Even taking a shower was exhausting. Carrying shopping was out of the question. I was frequently exhausted.

In 2012 I was a patient in the Heart Cells Foundation stem cells trial but had been one of the placebo group. In 2016 I was told that the placebo patients were to be given their own stem cells and now it was my turn and in July 2017 I received my own stem cells into my heart.

I immediately noticed that when climbing stairs, instead of having to sit down until my breathing recovered this was no longer necessary, my breathing was fine. Similarly when out walking the dog or with my grandchildren I was able to climb slopes almost normally, slopes which had defeated me before presented no problem. Also I am able to stand for longer – a great advantage at social gatherings as if one has to sit all the time conversations go on over one's head. These may seem small things but at the age of 80 I consider my improved life to be the second miracle.



When undergoing the procedure I was filmed for the Heart Cells Foundation, I couldn't see the film crew but I heard one of the surgeons involved say "Are we smiling enough back here?" Well anyone who donates to this wonderful cause, where under the

guidance of the Rosenbergs, people like you have raised millions for another chance at life to be given to complete strangers, should be smiling broadly. What an achievement. Don't give up now.

Pat Wilkinson, Patient



Film Screening and Afternoon Tea

12 June 2018

A private screening of Sammy Davis Jr "I've gotta be me" gave us an insight into the world of this legendary singer and his unique relationships.

Following the film about this iconic figure the supporters had the opportunity to meet with Heart Cells Foundation patient Denise Williams and all enjoyed a delicious Champagne Afternoon Tea.

Flowers and Champagne Afternoon Tea 15 May 2017

A special memory of when the very creative John Carter delighted us once again with an afternoon of flower arranging followed by a spectacular afternoon tea at the beautiful home of Susanne Nedas.



Golf Day at Coombe Hill

19 June 2018

The shotgun start saw players fuelled with a full english breakfast to set them on their way to a day of spectacular golf.

The weather delivered great sunshine and the golfers enjoyed Coombe Hill in Surrey which once again provided a challenging course, stunning venue and superb lunch, which was kindly sponsored by Peter Cruddas.

We were delighted to be joined by Owen Palmer one of the Heart Cells Foundation Patients. There were smiles all round from Andrew Jaye, Greg Perkins, Michael Durst and Laura Raelbrook who took the winners trophy.

Heart Cells Foundation would like to thank all the sponsors and donors for supporting the day.



Gala Film Night & Dinner 8 November 2017

The screening of 'Murder On The Orient Express' began the 13th Gala Film Night in spectacular style. Guests enjoyed the stylish interpretation of this classic mystery.

Sharing the evening with us were Heart Cells Foundation patients Gordon Foster and Michael Taylor, who told their stories and delighted us all with their passion and excitement for life, having received the life changing benefits found in the power of their own Stem Cells to regenerate their heart.



Adele Goldstein, John Singer, Michael Bradley, Susan James



Jo and Gordon Foster, Michael and Jane Taylor



Jenifer Rosenberg OBE, Paul and Peggy Brett



Stephen James, Michael Goldstein and James Glyn



Dame Esther Rantzen DBE, Professor Anthony Mathur, Jenifer Rosenberg OBE



Mark Clubb, Lady Wolfson, Marco Orsini, Roger Shine, Bjorn de Decker, Isabelle de Decker, Karen Shine, Sue and Mike Clasper CBE



Susan James and Lady Sarah Dorfman



Pierre and Gro Lumsden



Roger Moss and Susan Bernard MBE



Lucy Mercey and Harriet Rogan



Peter and Fiona Cruddas



Keith Morris, Jenifer Rosenberg OBE, Viv and Nick Rosenberg



Stephen and Susan James, Jenifer Rosenberg OBE, Claire and Gideon Kasfiner



Susan James, Louise Naftalin, Jenifer Rosenberg OBE, Rosemary Davis, Peggy Brett, Claire Kasfiner, Antoinette Soning



Barbara and Mel Altshuler



Carole and Howard Brecker



Loretta and Brian Rubins





Throughout the year the Heart Cells Foundation run a series of events, please email Sara Beare at admin@heartcellsfoundation.com to be included on our invitation list.

Golf Day

The Heart Cells Foundation Golf Day at Coombe Hill Golf Club.

Tuesday 11 June 2019

Private Screening and Champagne Afternoon Tea

Join us for a wonderful afternoon at the Soho Hotel, London, W1 for a Private Screening followed by Champagne Afternoon Tea.

Tuesday 4 June 2019

Sporting Evening Saracens Rugby Club

A unique opportunity to join us at Allianz Park for a tour of the extensive Priory Collection of sporting memorabilia. See website for updates.

Whiskey Evening

Taste the delights and hear the story surrounding the revival of James Eadie Whiskey. See website for updates.

Gala Film and Dinner

The annual Heart Cells Foundation Gala Film and Dinner the highlight of the fundraising calendar.

November 2019

Heart Researcher Running For Healthy Hearts

Amy Richards has been running for several years and has decided to take the plunge and start training for a Marathon. Training begins with the Thorpe Park Triathlon and Half Marathons, culminating in the Brighton Marathon in 2019.

Amy who currently works within the Heart Research Department at St Bartholomew's has picked Heart Cells Foundation as her chosen charity.

Good luck from all of us at Heart Cells Foundation.



To sponsor Amy visit www.heartcellsfoundation.com

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Raising Money for Heart Cells Foundation

If you or your family would like to hold an event or be sponsored for a sporting challenge – let us know and we will update our followers on our website and Facebook – we can link your event on our website in order that your supporters may donate directly to the Heart Cells Foundation.

HOW TO DONATE

Heart Cells Foundation relies solely on your individual or corporate support. Whether you simply want to make a donation or help organise a fundraising event, there are lots of things you can do to help us achieve our goal.

Sign up for Gift Aid and Heart Cells Foundation can reclaim 25% of the value of your donations. As a donor you may be eligible for further tax relief on your donation. You can now donate using a Credit or Debit Card on our website.



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