

## Treating Patients, Improving Lives 2022/23



**Heart failure is  
a leading killer in  
the UK.**

**Together we can  
change the future of  
medicine and the lives of  
heart failure patients.**

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

- **1 person dies every 3 minutes** from heart and circulatory disease in the UK
- **Every 5 minutes 14 people** are admitted to a hospital in the UK due to heart failure
- **150 people die every day** from coronary heart disease
- More than **900,000 patients** are living with heart failure
- **40%** of newly diagnosed heart failure patients **will die within 1 year**
- **Stem Cell Therapy** aims to improve heart function and quality of life

The Heart Cells Foundation, at St Bartholomew's Hospital, part of 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 stem cells to repair the heart. Helping those with heart failure, whether they have suffered a heart attack or have developed a weak heart for other reasons.

## The Road to Success



### Improving Lives

Using stem cells to treat patients suffering with heart failure to improve their lives.



### Furthering Collaboration

Supporting and funding the Compassionate Unit at St Bartholomew's Hospital, London – the first of its kind in Europe.



### Advancing Developments

Continuing further stem cells research and raising funds for Phase III Regen DCM Trial.



### Supporting Research

Facilitating stem cell research and the evolution of the regenerative field of medicine.



### Advocating Treatment

Ensuring that ground-breaking regenerative treatment is available to all on the NHS and beyond...

## The Trials

Adult Stem Cells were injected into patients with heart failure as well as those who are having a heart attack to see whether the damage caused can be reversed.

**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.



**Professor Anthony Mathur**  
*Director of Interventional Cardiology Barts Heart Centre*

*Director of the Compassionate Stem Cell Unit*

### Dear Heart Cells Foundation Supporters

Our compassionate cardiac stem cell unit, the only unit of its kind in Europe, continues to progress the field of cell-based regenerative therapy for cardiovascular disease. 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.

It is an incredible achievement; our patients are reporting substantial improvements to their symptoms and quality of life.

Our ultimate objective is to successfully complete the final stages of our REGENERATE series of clinical trials to allow this treatment to gain regulatory approval and be adopted by the NHS as a standard treatment for the UK's 1 million heart failure patients.

This will require a substantial amount of funding. The successful trials that we have already performed (thanks to your support of the Heart Cells Foundation) suggest that this is a ground breaking treatment which will help an enormous amount of patients and decrease the burden on the NHS.

I am confident that with your support for our programme we will be able to continue to improve the lives of patients suffering from heart disease and ultimately establish cell therapy 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.

**2007-8**

**Trial 2**  
Receives ethics approval.

**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.

**2013**

**Trial 4**  
BAMI starts recruiting – finishes in 2018.

Trial 2 recruits last patient.





## Continuing the Commitment to Excellence

Barts Heart Centre is now back to near normal, following the devastating impact of Covid. During the pandemic we maintained all urgent cardiac work in addition to supporting the expanded 160-bedded Covid ICU at our sister hospital, the Royal London. Over 100 of our consultants left Barts for other hospitals to support colleagues in looking after desperately sick Covid patients.

Because of the colossal impact of Covid, many patients are still waiting too long for treatment, and we are working incredibly hard and successfully to treat more patients than ever before.

Sadly, during the pandemic, some patients very naturally delayed seeking medical help, wishing to avoid hospital admission. As a result, we are seeing an increased number of patients with heart failure.

The Compassionate Unit gives selected heart failure patients the opportunity to be treated in a world class unit within a leading NHS Hospital. The team at Bart's under the guidance of Professor Anthony Mathur is leading the way in the field of cardiac regenerative medicine.

Monies donated ensure patients are being treated now in the Compassionate Unit. With no funding from drug companies or government, the support of the Heart Cells Foundation is vital to ensure the team at St Bartholomew's Hospital stays at the forefront of this exciting field.

**Professor Charles Knight OBE**  
Chief Executive,  
St Bartholomew's Hospital,  
Consultant Cardiologist



## Leaders in the Field of Regenerative Medicine based in the City of London

The world is watching our progress. As leaders in the field of regenerative medicine, 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.



We have created a new field of medicine and are committed to raising the £8 million to complete the work alongside funding the Compassionate Unit to achieve success for patients and their families. The end is in sight and with your support the charity and the team at St Bartholomew's Hospital will fulfil the commitment to achieve success.



To view the latest appeal film and watch the progress we have made, scan this QR code or visit

[www.heartcellsfoundation.com](http://www.heartcellsfoundation.com)

## 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.

**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.

**2019**

Treating patients in the Compassionate Unit, patients showing improved quality of life.

**2020-21**

Fundraising continued during the pandemic and events became virtual. Patients processed through the Compassionate Unit.

**2022**

Funding of the Compassionate Unit continues. £8 million fundraising campaign launched.

## How It All Began – With Your Help We Have Come So Far

**Heart Cells Foundation was established in 2004 by Ian and Jenifer Rosenberg to fund the development of regenerative cardiovascular therapies specifically using a patient's own stem cells to treat Dilated Cardiomyopathy and Ischaemic Heart Disease.**

Jenifer's husband Ian was 66 years old when his heart problems began. Having been healthy, he was struggling to breathe. Ian Rosenberg was sadly diagnosed with Heart Failure and given 2 months to live. Jenifer and Ian heard about a trial being run in Germany using a patient's own stem cells to repair damaged hearts. Ian had the treatment and in a few weeks the difference was unbelievable. Due to lack of funds this treatment was not available in the UK. Ian thought this treatment should be available to all, and so with Jenifer they embarked on setting up the Heart Cells Foundation and the fundraising began. Ian's treatment gave him an extra 3 years of life and Jenifer and the Trustees continue his legacy.

The Foundation has, to date, supported 3 gold standard clinical trials, using a patient's own stem cells, which have generated positive, peer-reviewed data demonstrating a significant improvement in cardiac function. These trials have been conducted at St Bartholomew's Hospital in London under the supervision of Professor Anthony Mathur.



The foundation also funds the Compassionate Treatment Unit led by Professor Mathur. The unit opened in 2016, the first of its kind in Europe.

Fundraising revenue is received from events raising the awareness of the work of the charity. Alongside donations from trusts, foundations and individual supporters.

**Join us, and together we can change the lives of heart failure patients.**

## Meet The Trustees

**Working together, driving pioneering research and furthering the field of revolutionary regenerative medicine.**



Top Row: Prof. Anthony Mathur, Stephen James, Prof. John Martin  
2nd Row: Prof. Martin Rothman, Jenifer Rosenberg OBE, Adrian Magnus  
3rd Row: Mike Clasper CBE, Sir Bernard Rix, Myra Waiman

*Sir Bernard Rix, Trustee, has been working with the charity since its inception.*

"I was lucky to have been a neighbour of Ian and Jenifer Rosenberg, when they conceived of the idea of the Hearts Cell Foundation and asked me to join them as a founding trustee. Ian was suffering from degenerative heart failure and was benefiting from a new treatment using his stem cells to regenerate the operation of his heart. They had engaged the medical support of the brilliant Dr Anthony Mathur, then a young cardiologist working at Barts.

This was pioneering work, and I was immediately attracted by the possibilities of this new treatment. My father had suffered from heart failure in the 1980s, and this added to my enthusiastic support.

I well remember the early days of the Foundation, and in particular how we made our case to the Governors of Barts and their Trust for their participation and support in our enterprise. I recall in particular a meeting of their full board, and how I told them we could develop a protocol which would guide our joint efforts. Since then our cooperation has developed and strengthened and led to the wonderful work, scientific and clinical, which is centred at Barts and bringing relief and hope to patients."





## The Compassionate Unit, Treating Patients, Changing Lives

Set up in 2016, at St Bartholomew's Hospital, patients with heart failure are treated on compassionate grounds. Fundraising is vital to ensure we can continue to fund this unique unit.



The Compassionate Team

### Ask The Team

#### Why is the unit so important?

Despite having exhausted all conventional treatment options, our patients still experience severe symptoms which impacts their lives. Our treatment using their own stem cells gives them a chance of an improved quality of life.

**Dr Russell Hall**  
Research Fellow

#### Why is it vital to continue to fund the stem cell programme?

The human body has a built-in ability to repair and renew, using its own stem cells. Having worked within this field for over a decade, I feel it is imperative to progress regenerative medicine and harness the power of stem cells to improve the future outcomes for heart failure patients.

**Jessry Veerapen**  
Research Manager

#### Why should someone make a donation?

Fundraising plays a crucial part in enabling the unit to fulfil an unmet need for our heart failure patients. Donations will allow our patients to benefit from this innovative treatment which otherwise is not available within the NHS.

**Sonia Bastos**  
Research Nurse

#### How does it make you feel when you speak to patients?

It is a blessing to hear when you have helped a patient. I see every day the monies raised having a direct impact on patients' day to day life. Thank you for helping us make a difference.

**Sabina Yasmin**  
Unit Administrator

### 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

- Eligible patients are invited to attend the Stem Cell Unit for pre-assessment to assess suitability. This includes blood tests, a 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 6th 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 infused into the patient's heart arteries a few hours later.
- Patient discharged the day after receiving stem cells.

#### 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.

#### Contact

Compassionate Treatment Unit, Cardiac Research Dept., St Bartholomew's Hospital, West Smithfield, London, EC1A 7BE. Email: bhnt.stemcells@nhs.net

“Heart Failure not only affects the patients, it impacts the entire family. This revolutionary treatment gives patients a chance of an improved quality of life.”

## 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 2022 continuing to work with the Barts Heart Centre and funding a dedicated facility located in the 'state of the art' Cardiac Unit. Despite the challenges of the previous few years we continue to make great progress.

The Heart Cells Foundation Family supported by you is funding this ground-breaking research, which is 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 OBE**

*Chairman of the Heart Cells Foundation*

## In The Media



We have achieved high-profile coverage in national newspapers and news programmes.

## 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 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.

## Patient Power!



I am embarking on a Tour of Britain by motorcycle, fundraising for Heart Cells Foundation. I need your help! This is my Ride For Life!

My name is David Randle, in March 2016 I suffered a significant heart attack and my prognosis did not make for good reading. I was turned down for heart transplantation as I was deemed not a good candidate and I was told I would not be alive by Christmas 2017. Somehow, I defied the odds and in February 2019 I was treated with Stem Cell Therapy at St Barts Hospital

London through the charity Heart Cells Foundation. I cannot begin to tell you how this has changed my life in such a short period.

The Heart Cells Foundation has given me another chance at life with the research and development of this treatment, so I feel compelled to give something back by raising awareness of the therapy and to give other heart failure sufferers hope that they too may have a future.

A fellow patient, Barry Newman, is joining me to drive the support van. Join us and together we can change the future. If you can give your time, sponsorship, or advertise our journey, please contact the Heart Cells Foundation.







## BOND WAS BACK!



Celebrating a return to fundraising events, our main fundraiser for 2021 was a great success. Bond was definitely back! The Champagne Brunch and Private Screening of Daniel Craig's last Bond film was held at the May Fair Hotel. Guests joined together to support the charity and watch the latest Bond Film NO TIME TO DIE!

To view all the photographs from these events please scan the QR Code or visit [www.heartcellsfoundation.com/media/gallery](http://www.heartcellsfoundation.com/media/gallery)



## Kuwait Embassy Lunch

We were delighted to share with supporters this very special occasion. Hosted by Mrs Al Duwaisan guests enjoyed a wonderful afternoon, experiencing the delights of food from Kuwait.



We look forward to your support at more of our exciting events.

## Golfers on course to support charity

Linda Watts, PA to our Trustee Stephen James, has been involved with Heart Cells Foundation from its inception – assisting with organising the annual golf days, at various wonderful venues over the years, and looking after the database and day to day accounts for the Charity.

Linda is the current Lady Captain at her golf club, Chartham Park, and we are delighted to say that, along with her fellow Club, Senior and Junior Captains has chosen Heart Cells Foundation to be one of their two chosen charities. We wish them every success with their fundraising on our behalf.



**Founder**  
IAN ROSENBERG

**Trustees**  
Jenifer Rosenberg OBE (Chair)  
Mike Clasper CBE  
Stephen James  
Adrian Magnus  
Prof John Martin  
Prof Anthony Mathur  
Sir Bernard Rix  
Prof Martin Rothman  
Myra Waiman

**Global Ambassador**  
Roger Shine, Chevalier de Monaco

**Committee**  
Peggy Brett  
Rosemary Davis  
Jayne Edwards  
Susan James  
Louise Naftalin  
Jenifer Rosenberg OBE  
Antoinette Soning  
Lady Young of Graffham

## Join Us and Together We Can Change The Future

Throughout the year the Heart Cells Foundation hosts a series of fundraising events.

- **Private Screening and Afternoon Tea**
- **Golf Day**
- **Gala Film and Brunch**
- **Cookery Demonstration and Lunch**

Please email Sara Beare at **admin@heartcellsfoundation.com** to be included on our invitation list.

If you would like to host an event for the Heart Cells Foundation or take part in a sponsored event to support the charity please contact **Sara Beare** on **020 7935 5351**.

### Your Legacy, Patient's Lifeline

Remembering the Heart Cells Foundation in your will is a perfect way to leave a legacy while ensuring we can continue to develop one of the most important advances in the treatment of heart disease.

**Please contact Sara Beare if you would like discuss this further or would like to receive a legacy pack.**



### HOW TO DONATE

Heart Cells Foundation relies solely on your individual or corporate support. 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, Facebook, Twitter and Instagram. Heart Cells Foundation will create a page for your supporters to donate. Your support will help us reach 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.

**DONATE NOW USING A DEBIT CARD OR CREDIT CARD ON OUR WEBSITE**



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**Creating a new field of medicine in the 21st Century** [www.heartcellsfoundation.com](http://www.heartcellsfoundation.com)

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