

SPRING 2022



We don't want to exist in 10 more years

It is some time since we ran a print in £4.5 million and if successful the version of the newsletter! Who would have thought that the pandemic would still be with us. We hope that you and your families are well, though I fear many of you will have been touched by it.

In amongst the pandemic years we realised that we have now been fundraising for research for 10 years and been achieved with your generosity.

Fund) funded the EBSTEM and ADSTEM infusions for people with recessive conditions. dystrophic epidermolysis bullosa. These trials are the foundation for Mission EB which will see every child under 16 with RDEB being offered infusions of stem cells. It is a pilot project which is testing achieve with the right level of funding. getting treatments into the rare disease population quickly. The NIHR are putting

treatment will be commissioned by the

Cure EB made this happen. You made this happen.

What of the future?

Cure EB is focussed on gene editing and gene modification, as well as research it is perhaps time to reflect on what has to combat the malignant skin cancer that often develops in sufferers of EB. Gene therapies have moved from the Cure EB (formerly Sohana Research realms of science fiction to real trials with exciting results offering proof clinical trials, mesenchymal stem cells of potential in EB and many other

> We can see identifiable routes to whole body treatments but if anything the pandemic has taught us what we can Treatments and cures are realistic goals now for genetic conditions.

The devastating impact of EB is our motivation, our progress is our hope. What we don't have is time.

Our children with EB suffer incredible pain for years and then die of malignant skin cancer sometimes in their early

In 10 years from now we do not want Cure EB to need to exist!

Please feel very proud of what you have helped us achieve but please do stay with us to Cure EB.

With love and thanks,

Sharmila Collins FOUNDER



SOHANA 19yrs



FUNDING FREEDOM FROM EB with Damian Lewis



A LOT CAN HAPPEN IN 10 YEARS

50,000 babies were born with EB in the last 10 years















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WALK ON THE WILD SIDE SEPTEMBER 2021

We had a wonderful fundraising event at London Zoo with a research update from Professor John McGrath and a reflection on ten years of Cure EB. With The Jazz Spatz and delicious food it was fabulous to see you in person again after quite a while!









BONJOUR BINKY

in French and around the world in significant languages, helping to spread the word about EB and the hope that we can fix it.



THE TIMES WRITE UP MISSION EB SEPTEMBER 2021

Gabrielius, age 9, was featured in a Times newspaper article about Mission EB. Mission EB is a pilot treatment project in collaboration with the NIHR founded on our EBSTEM and ADSTEM clinical trial funding. The study is aiming to treat 36 children who have recessive dystrophic epidermolysis bullosa with infusions of stem cells derived from umbilical cord tissue. The potential for a first EB treatment in the UK is truly exciting and with the first patients having already had their infusions we are so grateful for your support that helped get us to this pivotal stage.



SILVER BUTTERFLY DINNER MAY 2019

EVENTS





WORLD EB CONGRESS

The first global congress on Epidermolysis Bullosa took place on 19-23 January 2020, in London. We were proud to partner with Debra and others to bring together the worlds experts to share knowledge, foster greater research and develop the EB community. Sharmila Collins spoke at a plenary session about forming effective partnerships in EB research as an essential objective if we're going to get better treatments and we look forward to continuing to facilitate those vital partnerships as we hold ever fast to finding a route to cure EB. Sharmila also spoke with Lena Reidl on patient parents perspectives of participating in clinical trials. Over 700 people attended from all around the world.

10 YEARS OF RESEARCH



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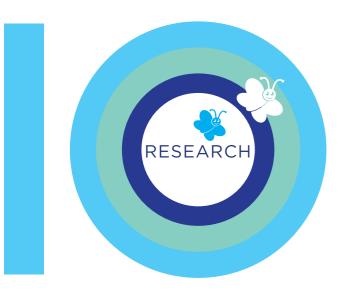
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Cure EB has funded 24 research projects since its inception 10 years ago.

Collaborating with universities, biotechs, charities, research foundations, government organisations and clinicians, Cure EB have built momentum in research, supporting initiatives that will speed up the process towards effective treatments and our ultimate mission - to cure EB.













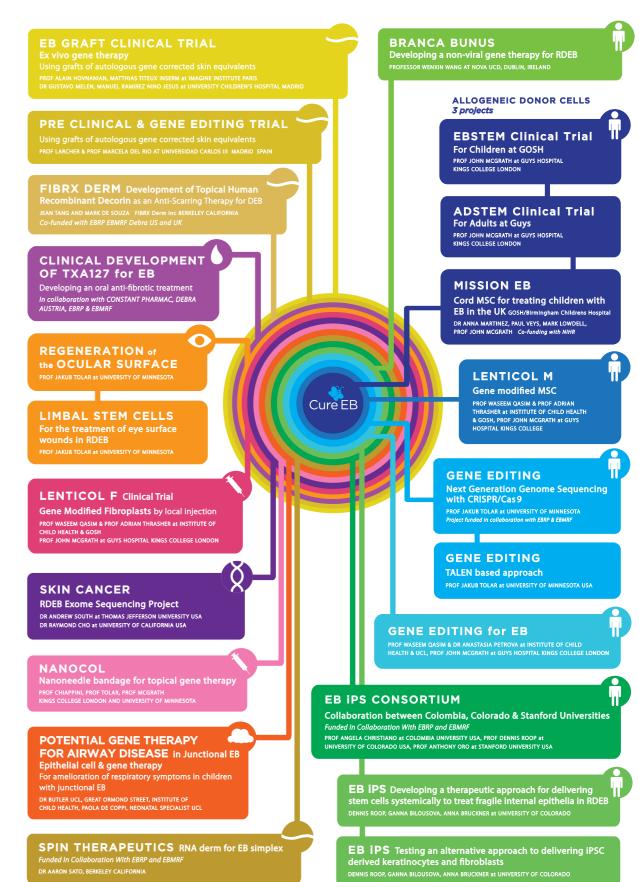


PROF JOHN MCGRATH

PROF ALAIN HOVNANIAN

PROF DENNIS ROOP

The professors and research teams working on these projects have been dedicating years of their professional lives towards the shared goals of helping children born with EB to live lives free from pain. Here are a few of them from early on in their EB researching careers.



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RECENT RESEARCH PROJECTS





MISSION EB

Pilot treatment project in collaboration with the NIHR founded on our EBSTEM and ADSTEM clinical trial funding

The study is aiming to treat 36 children who have Recessive Dystrophic EB (RDEB) with infusions of Mesenchymal stem cells derived from umbilical cord tissue. It is being conducted at Great Ormond Street Hospital (GOSH) and Birmingham Children's Hospital (BCH), led by Dr Anna Martinez (Consultant Paediatric Dermatologist).

The trial has been made possible thanks to over £4.5 million of funding from the National Institute for Health Research (NIHR) in partnership with NHS England and NHS Improvement as well as a grant from Cure EB, with The University of Sheffield Clinical Trials Research Unit (CTRU) overseeing the study.

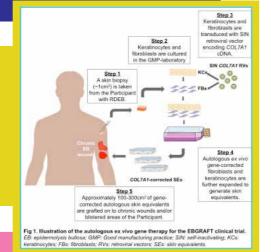
It is hoped that this treatment will offer reduced skin inflammation, reduced blistering and better wound healing and if successful will be commissioned as a treatment by the NHS.

EB Graft Trial

Patient cell derived gene corrected skin equivalent grafts

This trial started in adults in Paris, after significant Covid related delays. The first patient has been grafted and we await the next stages.

PROF ALAIN HOVNANIAN, DR MATTHIAS TITEUX Paris



Nanocol

A challenge of gene therapy is to find effective methods of delivering a functional copy of the gene that is missing

Nanoscale needles so small that they can inject substances into cells have been developed and tested, including on cells from EB patients, and researchers plan to create a bandage decorated with these needles that can be applied onto an EB patient's wounds. Once inside the cells, the functional version of the gene starts producing healthy collagen, enabling the EB sufferer's skin to heal.

DR CIRO CHIAPPINI & PROFESSOR JOHN MCGRATH Kings College London PROFESSOR JAKUB TOLAR Dean of University of Minnesota

Gene Editing for EB



Preclinical towards Clinical Trial

To carry out the necessary pre-clinical studies for a Phase I / II clinical trial of gene edited skin equivalent grafts. Gene editing offers the possibility of permanent genetic correction of defective cells.

LARCHER ET AL Madrid

Spray-on skin cells

As part of our iPSC consortium funding, this project seeks to show successful regeneration of skin from gene-modified skin cells which are being delivered via a 'spray-on' system developed by Avita Medical. Early results have been encouraging.

PROF DENNIS ROOP & GANNA BILOUSOVA

Gates Center for Regenerative Medicine University of Colorado School of Medicine

https://www.globenewswire.com/news-release/2022/01/06/2362375/0/en/AVITA-Medical-Establishes-Proof-of-Conceptfor-Novel-Treatments-Using-Genetically-Modified-Skin-Cells.html

Combined respiratory epithelial cell and gene therapy

The work here aims to deliver laboratory-based tools to model Junctional EB airway disease, as well as to use lentiviral gene editing tools to correct EB-affected airway lining. This proposal is a proof-of-principal project demonstrating the feasibility of combining lentiviral gene editing with airway epithelial stem cell therapeutics.

DR COLIN BUTLER Great Ormond Street Hospital

COMPLETED 2020

Gene Editing for EB

Investigation of CRISPR/Cas9 gene and base editing strategies for the COL7A1 gene mutation hotspots common within the UK paediatric population.

PROF WASEEM QASIM, DR ANASTASIA PETROVA, PHD STUDENT GAETANO NASO Institute of Child Health, UCL London



LENTICOL M

'Human Mesenchymal Stromal Cell engineered to express collagen VII can restore anchoring fibrils in Recessive Dystrophic Epidermolysis Bullosa Skin Graft Chimeras'

Lenticol M Mesenchymal Stromal Cells engineered to express collagen VII for the treatment of Recessive Dystrophic Epidermolysis Bullosa.

TRIAL COMPLETED AND RESULTS PUBLISHED IN JANUARY 2020 VOL 140 ISSUE 1, PAGES 121-131. E6 https://doi.org/10.1016/j.jid.2019.05.031

IN SUMMARY Human MSC cells engineered to overexpress collagen V11 might provide therapeutic benefit when injected into sites of localized blistering. Intraveous infusions did not home to sites of wounding in mice and further work around this area is needed.



PUBLISHED 2020

ADSTEM Clinical Trial

'Do donor mesenchymal stromal cells have a disease modifying effect in adults?'

Published in the Journal of the American Academy of Dermatology

VOLUME 83, ISSUE 2, AUGUST 2020, PAGES 447-454

Phase 1/11 open-label trial of intravenous allogenic mesenchymal stromal cell therapy in adults with Recessive Dystrophic Epidermolysis Bullosa.

CONCLUSION MSC infusion is safe in RDEB adults and can have clinical benefits for at least two months, particularly in the reduction of itch.







POPPY

ACCELERATING RESEARCH TO END PAINFUL SKIN

Big areas of concern are Poppy's hands and feet and her oesophagus. Hands dexterity is worsening as she uses them more at school. The skin becomes damaged and blistered. On repair the skin is definitely tighter causing contortion. Grip is considerably weakened.

Her feet have been the most vulnerable area since birth. The skin on the left foot is so fragile it breaks down regularly. This results in difficulty walking. We are keen to keep her as mobile as possible for as long as possible.

Her throat has been a real struggle of late. We have kept a dilatation at bay until now. This has been so hard to see as she loves food so much and it definitely brings comfort when she's having a hard time. Eyes are an ongoing problem too. Abrasions have been less frequent but are just awful for her when they do happen. 4-5 days without sight spent in the dark.

Daily life is consumed with dressing changes, preparation for dressing changes, preparation for meal times. There is little time outside school for play during the week. Every hour has to be factored in around dressings. Play dates have to be structured and the routine scheduled around them. There is a huge impact on family life especially for siblings who very quickly have to learn patience and understand that a lot of mummy/ daddy time has to be given to the child with EB.

BY KATE GEE MUM OF POPPY

















THANK YOU

TO OUR SUPPORTERS



The James & Deirdre Dyson Trust











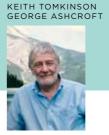






CLAIRE ADAMS DODINGTON

100 MILE WALK



IN MEMORY OF







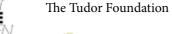


















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EVENTS



2022











100% OF DONATIONS GO TO FUND RESEARCH FIGHT FOR A LIFE FREE OF PAIN. TO END EB. RESEARCH THE CURE

TRUSTEES SHARMILA NIKAPOTA JAMES COLLINS MICHAEL DE LATHAUWER TAZIMHALL DUNCAN WALES PROFESSOR DAVID KELSELL