

WHAT IS EB?

EPIDERMOLYSIS BULLOSA INFOGRAPHICS



**This is how life feels
to people with EB.**



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GENERAL INFORMATION

WHY ARE THE INFOGRAPHICS IMPORTANT?

The EB infographics contain information on different areas of EB clinical and social care. They are mainly picture rather than text based and target people affected by EB in low resource areas.

The idea to develop EB infographics came from the DEBRA International EB Without Borders team. The team's mission is to help people living with EB, their families, and doctors in countries where there is no DEBRA group to support them and little knowledge of EB clinical and social care.

WHO ARE THE EB INFOGRAPHICS FOR?

The EB infographics are for individuals living with or caring for someone with any type of EB. Although the EB infographics are targeted at people in low resource areas, the information is relevant to anyone living with or caring for someone with EB.

WHERE DOES THE INFORMATION IN THIS BOOKLET COME FROM?

The information in this booklet comes from the “Clinical Practice Guidelines for Epidermolysis Bullosa Laboratory Diagnosis” (Has et al. 2019), “Consensus reclassification of inherited epidermolysis bullosa and other disorders with skin fragility” (Has et al. 2020), and from expert opinion. The information and recommendations in the guidelines come from a variety of sources including clinical research and expert opinion.

HOW TO USE THIS INFORMATION

We strongly recommend that you consult with your doctor or EB healthcare professional before using the EB infographics so that they can discuss the information with you.

DISCLAIMER

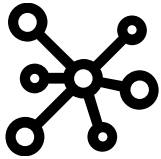
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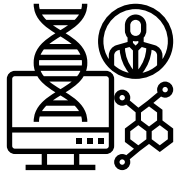
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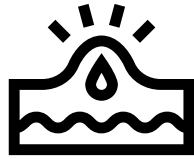
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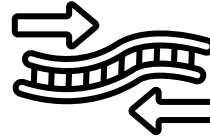
EB is not the name for a single skin disease, but a large group of clinically and genetically different diseases



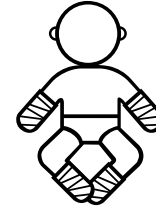
There are more than 30 subtypes



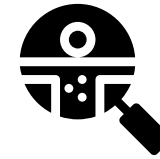
Their common feature is the formation of blisters and extremely fragile skin



Blisters and wounds can occur from pressure, friction, or heat on the skin and/or mucous membranes



Symptoms can be seen immediately after birth/during first few days



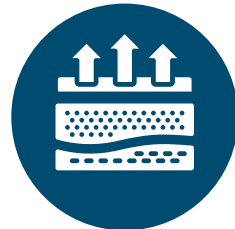
Symptoms can range from mild to severe



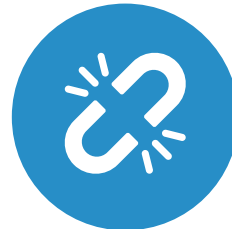
Blisters can form anywhere on the skin and sometimes inside of mucous membranes

epidermolysis

Epidermis

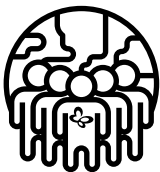
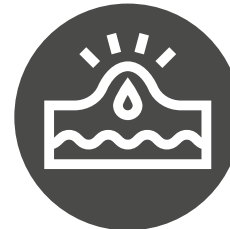


Breakdown

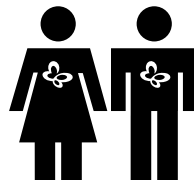


bullosa

Blister



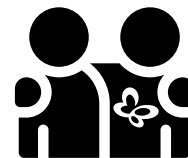
500,000 estimated people with EB in the world



Affects males and females equally



Can occur across all races and ethnicities



Not contagious



There is no cure yet



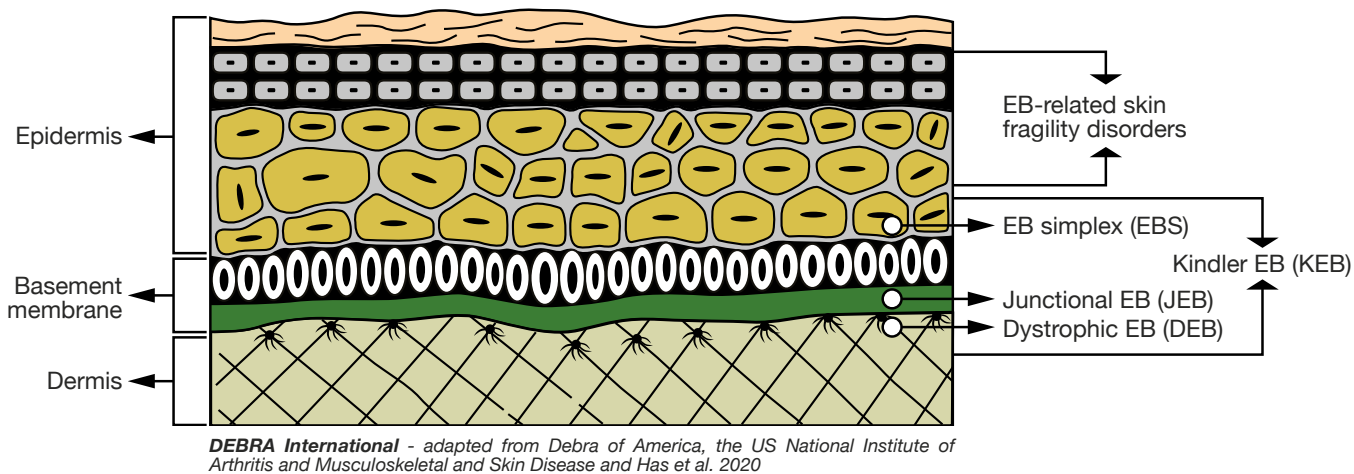
People living with EB are known as "butterflies" as their skin is as fragile as a butterfly's wings

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TYPES OF EB

CROSS-SECTION DIAGRAM OF THE SKIN



NORMAL SKIN



Regular skin has proteins that are like glue holding the layers of skin together making it strong.

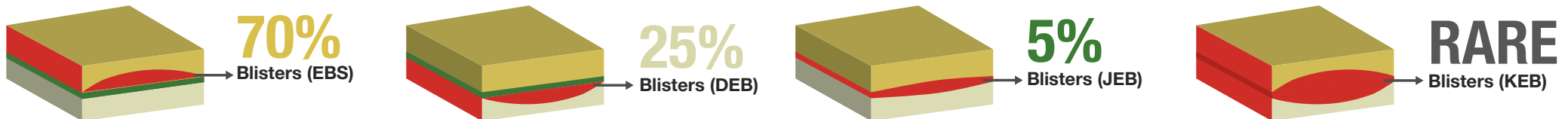
EB SKIN



In EB, these “glue” proteins do not work properly or are missing. This means the skin layers can separate forming blisters and tears. This can happen through injury, pressure, friction, heat, or even spontaneously.

EB acquisita (EBA) - although the symptoms can be similar, EBA is not inherited. It is an autoimmune disease which doesn't usually appear until later in life and it is unknown exactly what causes it.

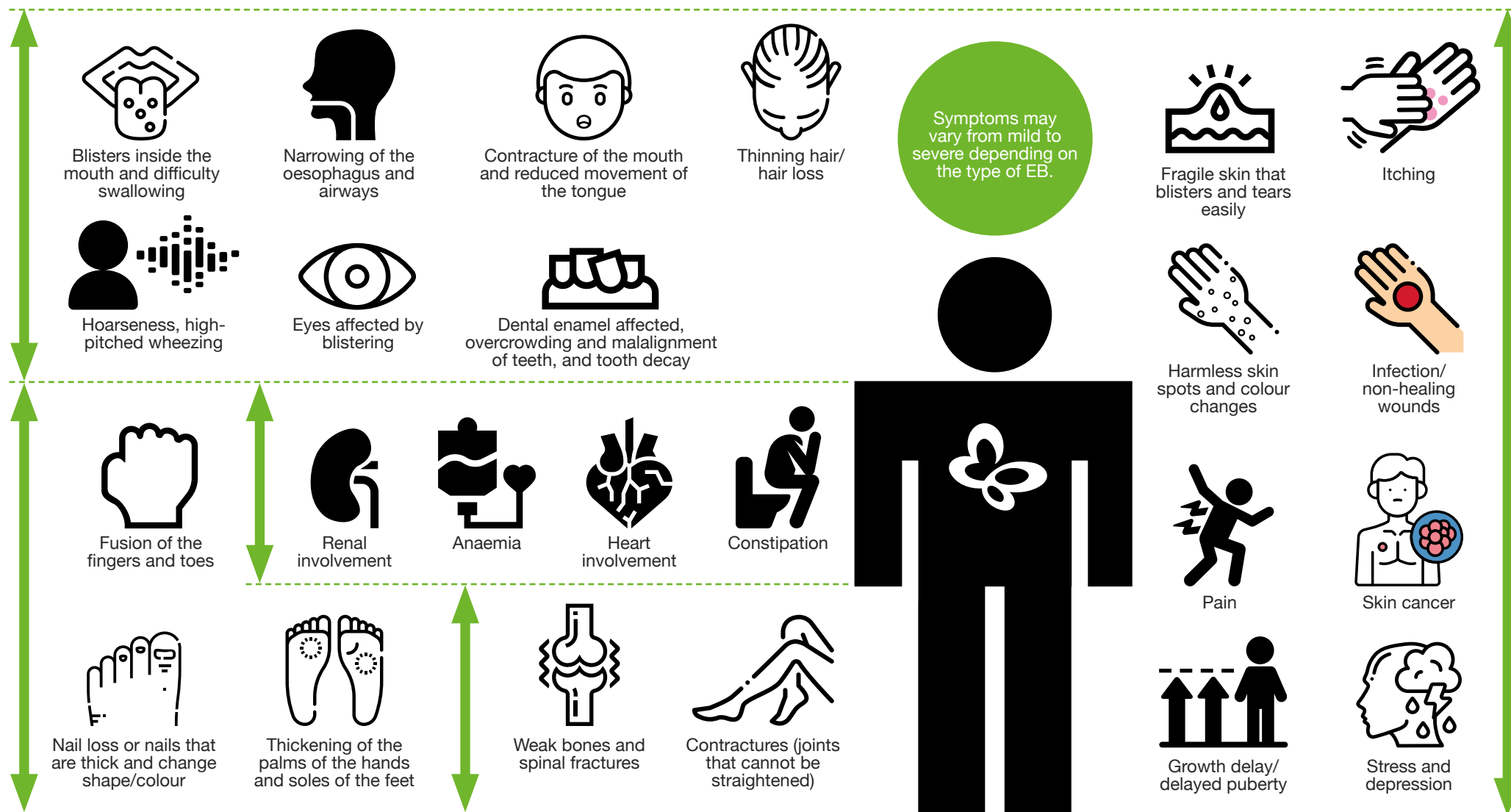
FREQUENCY AND CLASSIFICATION OF EB TYPES



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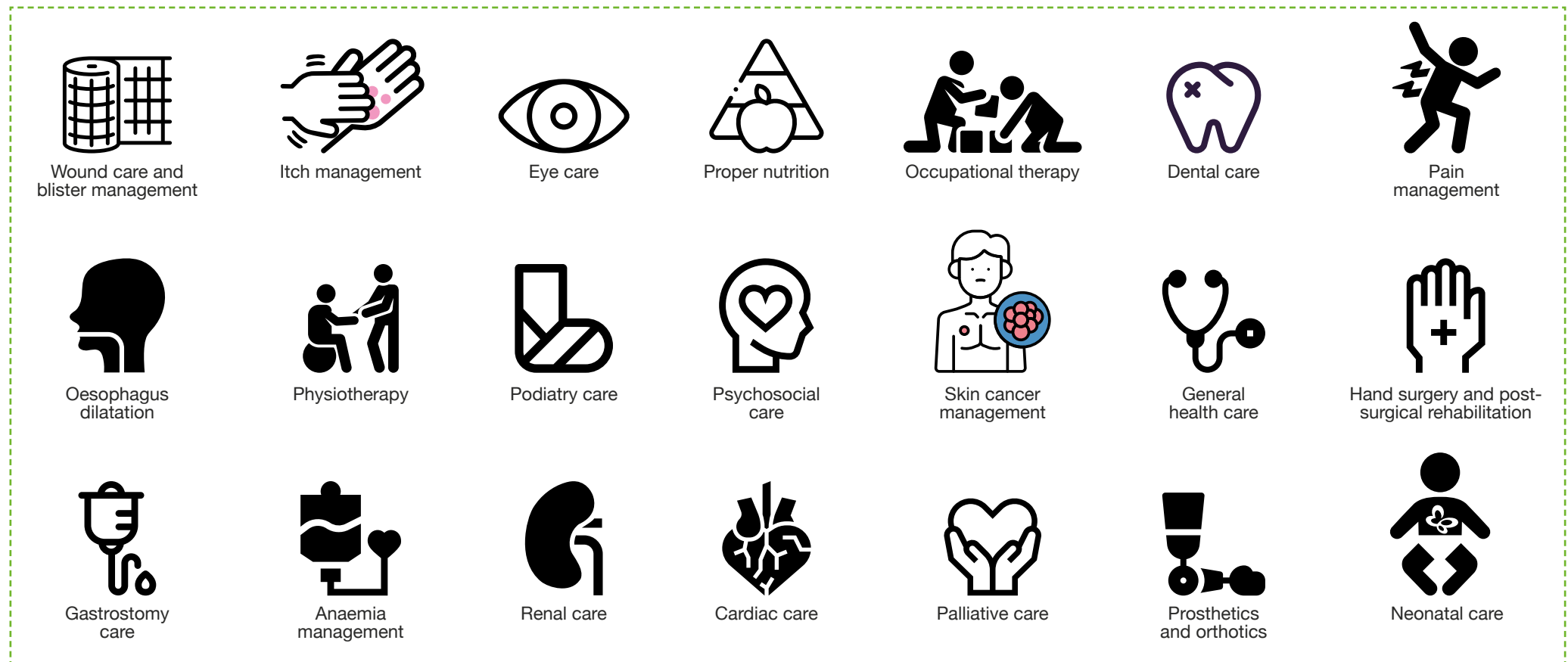
SYMPTOMS AND COMPLICATIONS



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EB CARE PRACTICES

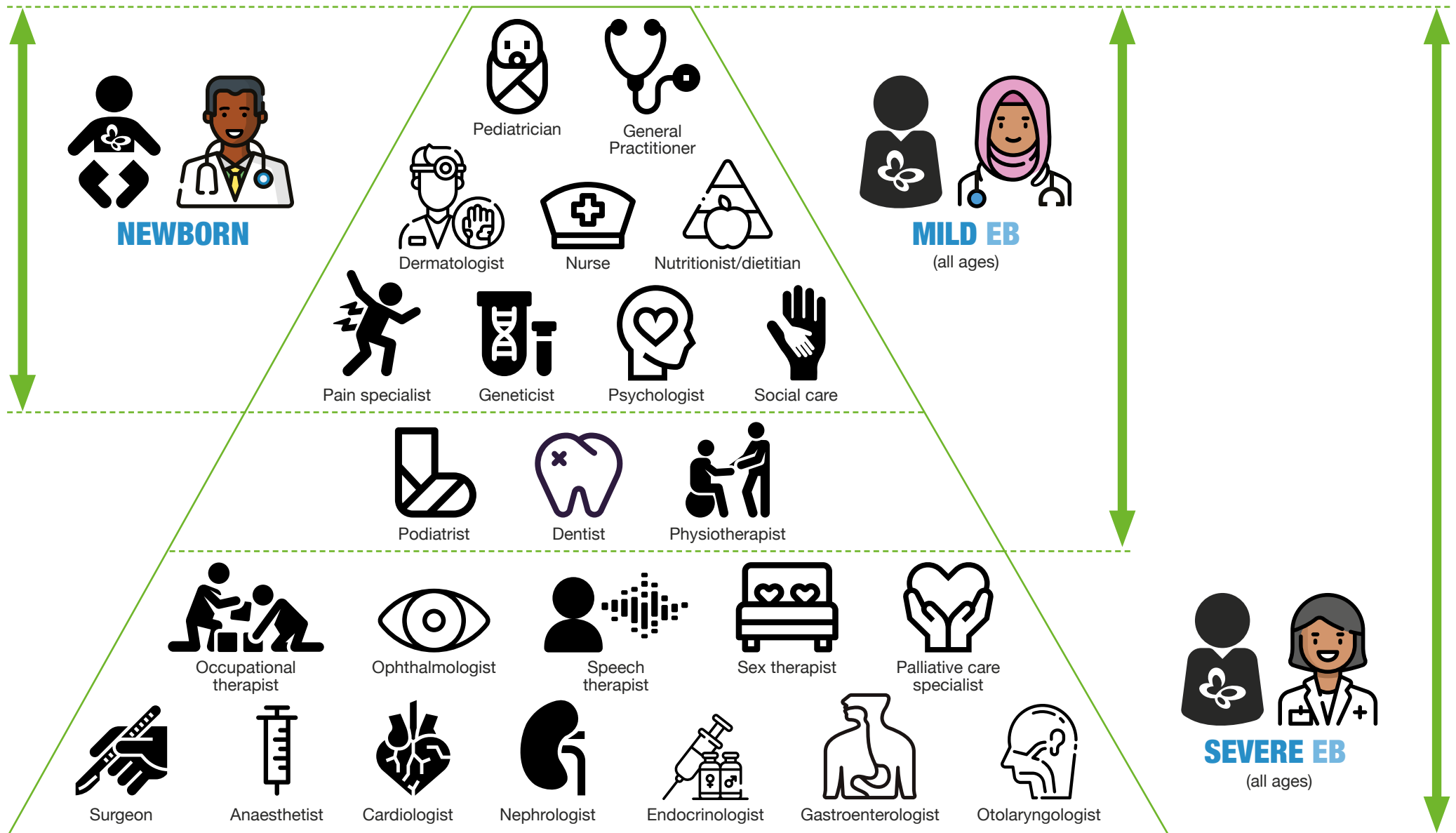


INTEGRATED CARE PLAN

EB has a range of symptoms and complications that require care from different medical specialists. Interdisciplinary care means a team of different specialists come together to coordinate a patient's care plan as well as learn from each other's specialties.

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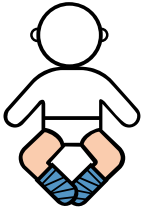


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NEWBORN WITH EB

SYMPTOMS



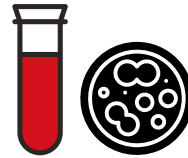
Skin may be absent entirely, particularly on the feet, ankles, and lower legs



Skin may blister immediately after birth/during first few days



A dermatologist should rule out other skin disorders



Laboratory diagnosis should be done. See page 13



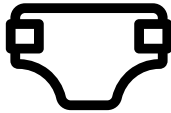
An integrated care plan should be coordinated by an interdisciplinary team

WHAT HAPPENS WHEN EB IS SUSPECTED?

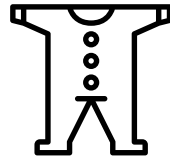
NEWBORN CARE



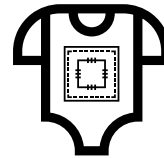
See Healthy Body and Skin infographics for information on wound care



Nappies should have a good fit to reduce friction. Add a soft cloth liner on the edges if necessary



Wear front-fastening baby grows. Naked babies can damage themselves by rubbing their arms and legs



Wear clothes inside out to avoid the rough seams causing skin problems with rubbing and pressure



Mittens and short nails help to prevent damage caused by scratching



Place your baby on soft padding (pillow, sheepskin, soft blanket)



Your baby may and should be touched one way or another to help with bonding



Breastfeeding is possible with a baby with EB and should be tried



Training parents on wound care/bathing/general care of a baby with EB is necessary



A social worker can guide parents about their rights, as wound care products can be expensive

! IMPORTANT!



Avoid using an incubator (unless absolutely necessary)



Do not use tape or plasters/bandaids



Not lifting from under the arms



Do not put name tags on wrists or ankles. Attach to bed/clothes instead



Do not use umbilical clamps



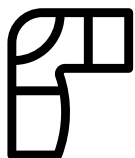
Follow normal childhood vaccine schedule

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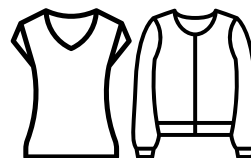
See Healthy Body and Skin infographics for information on wound care



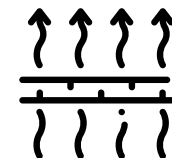
Protect vulnerable skin sites by wearing gloves and padding



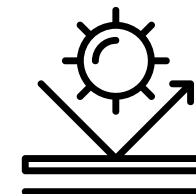
Keep skin moisturised to minimise itching, reduce friction, and prevent skin from cracking



Dress in layers that you can put on and take off easily when needed



Soft and breathable materials are more suitable



Use UV-protective clothing in summer



Use small aids to help independence in everyday activities



Pad eyeglasses to protect the nose and ears



Ensure footwear is soft and breathable. See Healthy Body and Skin infographics



Keep your finger and toe nails short and smooth. See Healthy Body and Skin infographics

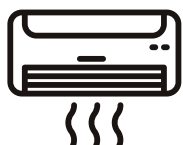


Use padding on car seats and other hard surfaces

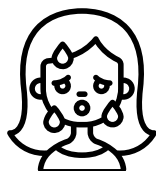


Physical exercise is good for mobility and bone health

! IMPORTANT!



A fan or air conditioner may help to keep the skin cool



Heat, sweat, and humidity increase blisters



Avoid hot baths



Avoid tight clothes



Avoid clothes with rough labels, tight elastic, or seams. Turn clothes inside out to avoid seams.

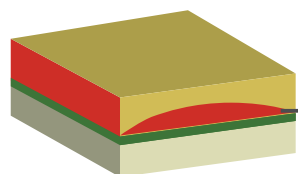


Do not use tape or plasters/bandaids

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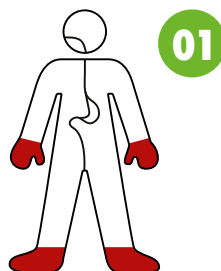
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EB SIMPLEX (EBS)

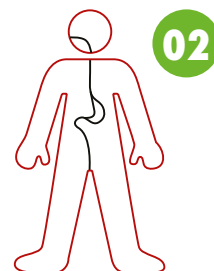


70%

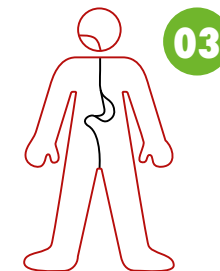
Blisters in the epidermis
Most common EB type



LOCALIZED EBS
previous names: Weber-Cockayne
affected genes: KRT5, KRT14
inheritance patterns: dominant, de novo, recessive (rare)



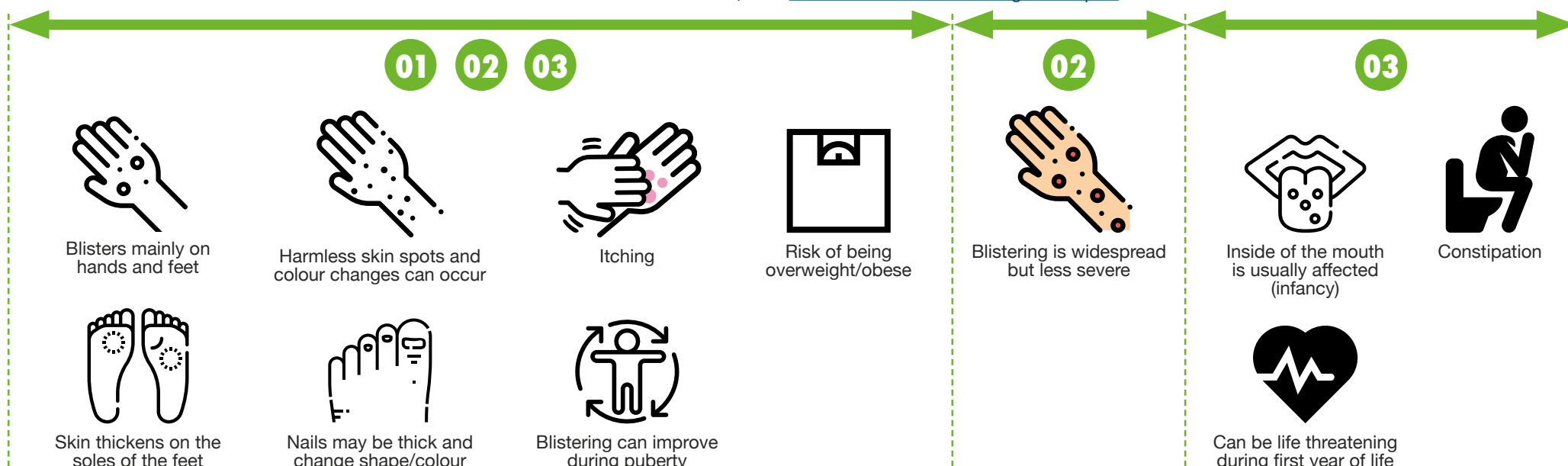
INTERMEDIATE EBS
previous names: EBS generalized intermediate, EBS Köbner
affected genes: KRT5, KRT14
inheritance patterns: dominant, de novo, recessive (rare)



SEVERE EBS
previous names: EBS generalized severe, EBS Dowling-Meara
affected genes: KRT5, KRT14
inheritance patterns: dominant, de novo, recessive (rare)

COMMON SYMPTOMS AND COMPLICATIONS

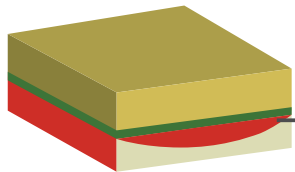
For full details, visit: www.debra-international.org/eb-simplex



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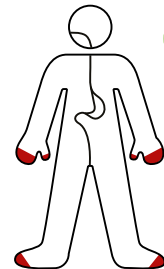
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DYSTROPHIC EB (DEB)



25%

Blisters in the dermis
Less common than EBS



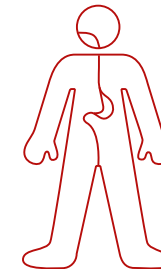
01

LOCALIZED DDEB
previous names: nails only,
pretibial and acral DDEB
affected genes: COL7A1
inheritance patterns: dominant



02

INTERMEDIATE DDEB
previous names: generalized DDEB
affected genes: COL7A1
inheritance patterns: dominant



03

INTERMEDIATE RDEB
previous names: RDEB
generalized intermediate,
non-Hallopeau-Siemens RDEB
affected genes: COL7A1
inheritance patterns:
recessive

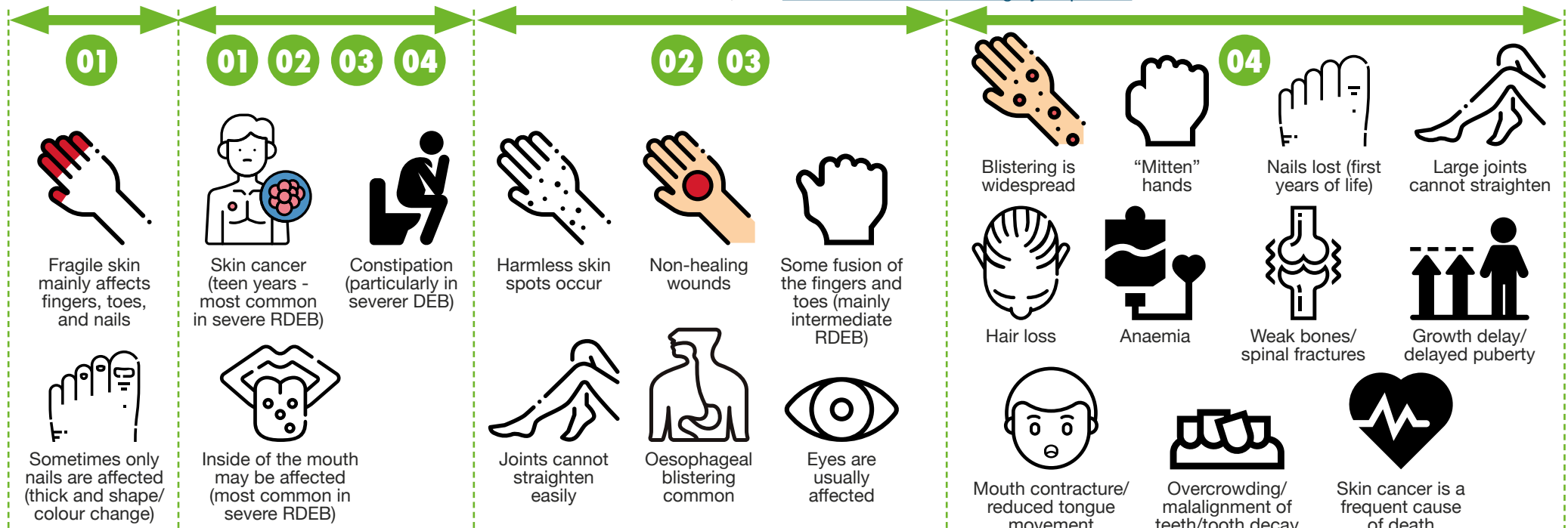


04

SEVERE RDEB
previous names: RDEB
generalized severe,
Hallopeau-Siemens RDEB
affected genes: COL7A1
inheritance patterns:
recessive

COMMON SYMPTOMS AND COMPLICATIONS

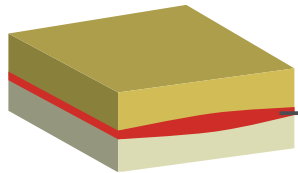
For full details, visit: www.debra-international.org/dystrophic-eb



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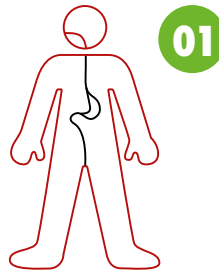
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JUNCTIONAL EB (JEB)

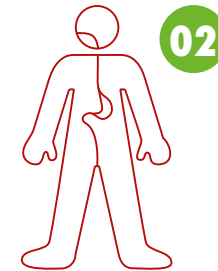


5%

Blisters in the basement membrane
Less common than EBS or DEB



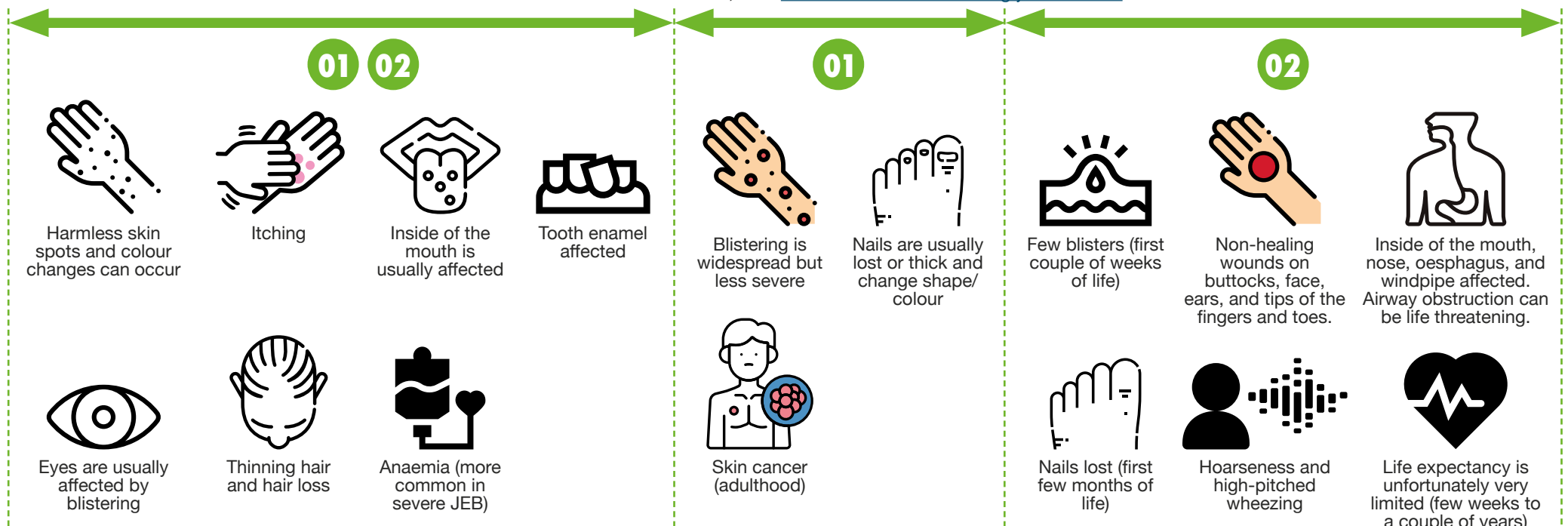
INTERMEDIATE JEB
previous names: JEB generalized intermediate, non-Herlitz JEB
affected genes: LAMA3, LAMB3, LAMC2, COL17A1
inheritance patterns: recessive



SEVERE JEB
previous names: JEB generalized severe, Herlitz JEB
affected genes: LAMA3, LAMB3, LAMC2
inheritance patterns: recessive

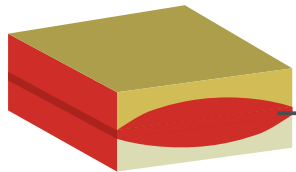
COMMON SYMPTOMS AND COMPLICATIONS

For full details, visit: www.debra-international.org/junctional-eb



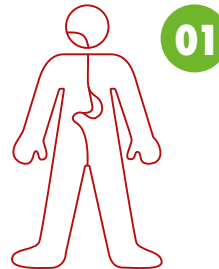
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RARE

Blisters occur at multiple and different levels



KINDLER EB

previous names: Kindler syndrome

affected genes: FERMT1

inheritance patterns: recessive

COMMON SYMPTOMS AND COMPLICATIONS

For full details, visit: www.debra-international.org/kindler-eb

01



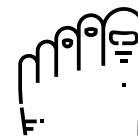
Blistering is widespread and tends to affect the extremities. Blistering tends to decrease with age



Loss of ridges and lines of the skin on the hands, such as fingerprints



Fusion of the fingers and toes leading to "mitten" hands



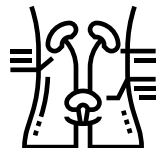
Nails may be thick and change shape/colour



Skin thickens on the palms of the hands and soles of the feet



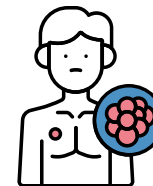
Eyes are usually affected by blistering



Narrowing of the urinary and genital organs can occur



Gingivitis, tooth loss, and overgrowth of gum tissue around the teeth



Skin cancer on extremities, lips, or oral cavity (young adulthood)

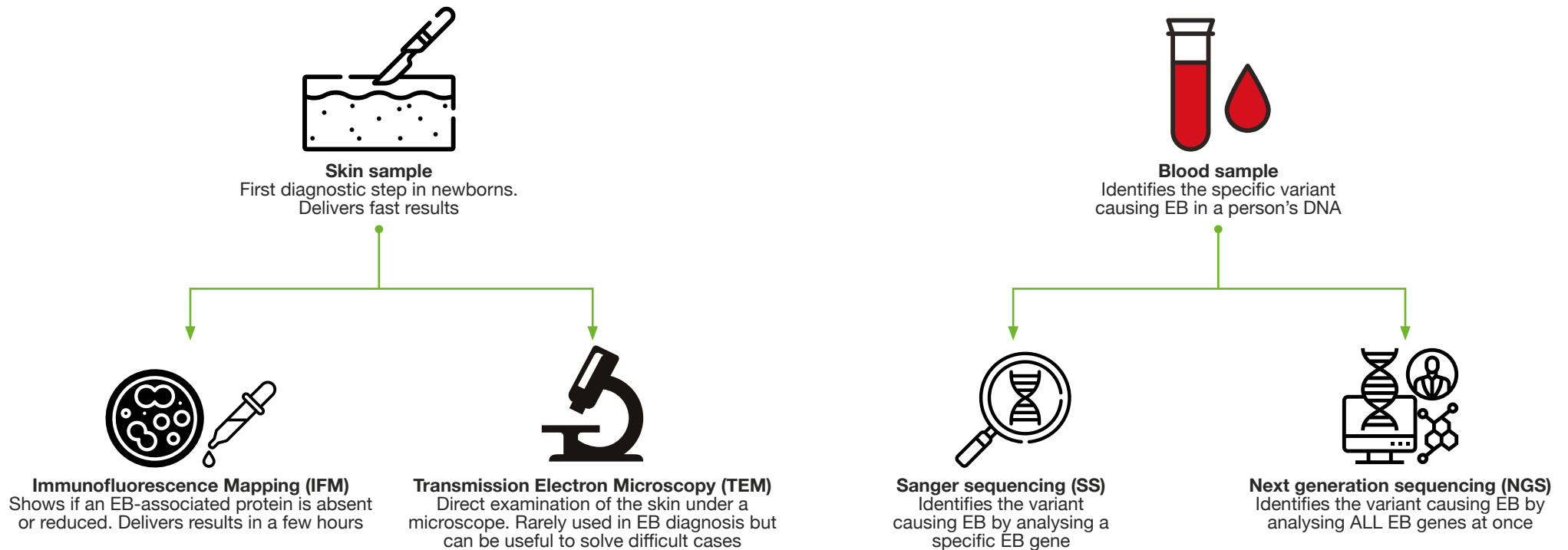


Skin cancer in Kindler EB is aggressive and can cause premature death. Regular check-ups for skin cancer monitoring is required

more info: www.debra-international.org EB Without Borders: ebwb@debra-international.org

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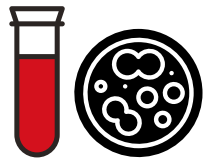
LABORATORY DIAGNOSIS



! IMPORTANT!



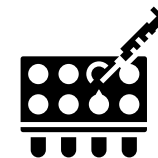
A dermatologist should rule out other skin disorders



Ideally, both genetic testing on a blood sample and analysis of a skin sample should be performed



EB subtypes will predict the disease severity allowing personalised treatment and care



It is important to determine the (sub)type of EB in order to participate in clinical trials



Receive genetic counselling

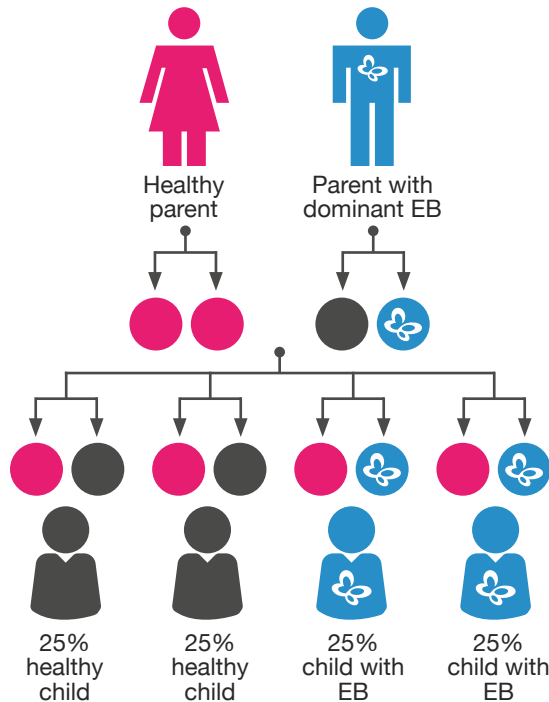
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INHERITANCE PATTERNS IN EB

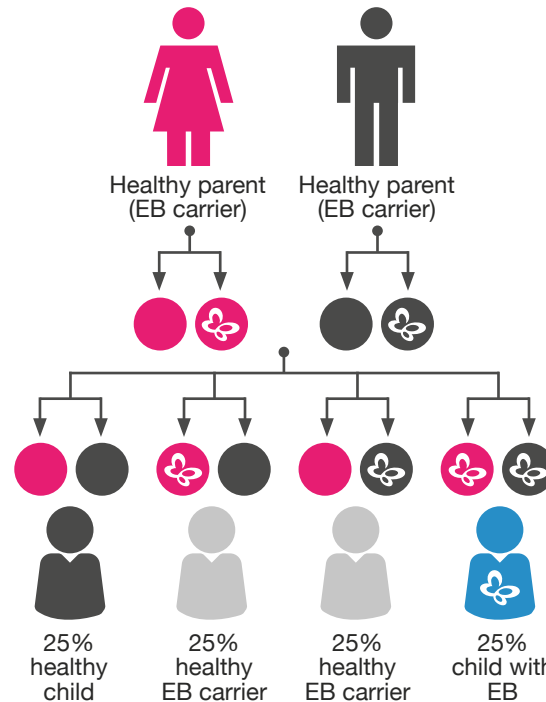
AUTOSOMAL DOMINANT INHERITANCE

One parent is affected and passes the altered gene on to their child. There is a 50% chance that any child of theirs would be born with EB.



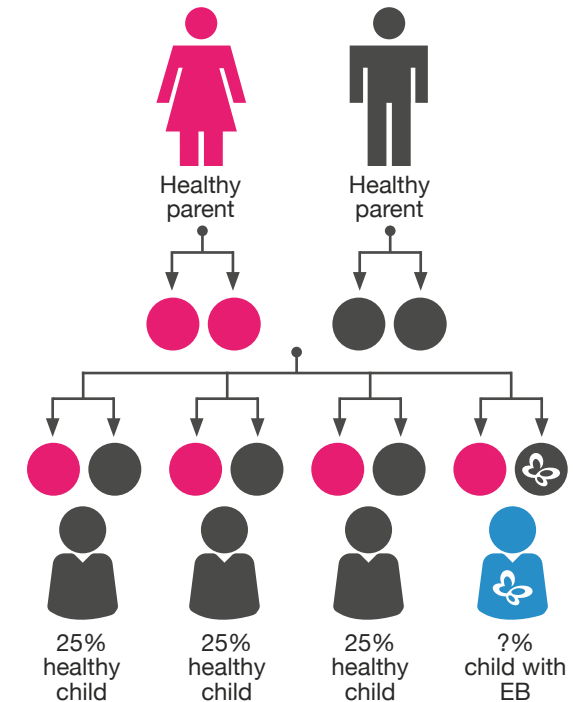
AUTOSOMAL RECESSIVE INHERITANCE

Both parents are unaffected but are carriers of the disease. For any child of theirs to be born with EB, the child would have to inherit the disease-causing variant from both parents. There is a 25% chance of this occurring.



“DE NOVO” INHERITANCE (DOMINANT ONLY!)

In this situation, EB happens spontaneously for the first time in a person. For the parents, having a second child or more with EB is very rare. The person carrying a de novo variant has a 50% chance of passing it (and EB) on to their children.

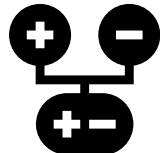


GENETIC COUNSELLING

Once EB is diagnosed, a person with EB and their family should seek counselling with a genetic counsellor or another specialist. The genetic counsellor should explain to the family:



what EB is



the inheritance pattern



the specific results of laboratory tests



the prediction of disease severity



the options for family planning



prenatal testing

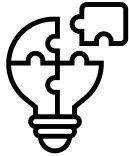
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RESEARCH

Research looks at studies in a condition to help understand the disease and how we may treat it. It also helps answer areas of knowledge we lack.

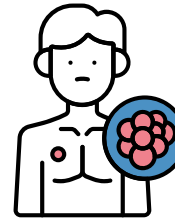
WHY IS RESEARCH IMPORTANT?



Understanding the biology and genetics of all forms of EB can lead to new approaches to diagnose and treat EB



Develop therapies (including possible gene, cell, drug, or protein therapies) for possible treatment(s) of EB



Understand the nature of skin cancer in EB, to develop prevention strategies of these symptoms



Improve the management of EB through symptom relief

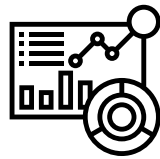
DEBRA INVOLVEMENT IN RESEARCH



Almost 40 years investing in research



€54+ million invested



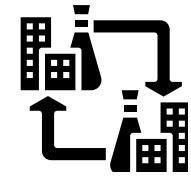
220+ research projects funded



76 DEBRA-funded institutions



130+ DEBRA-funded researchers

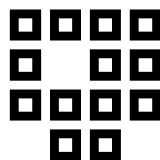


Many academic funded projects are now receiving biopharma support

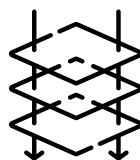
POTENTIAL TREATMENTS



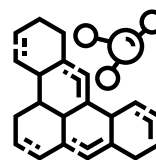
Wound care advancements



Protein replacement



Stem cell transplant



Gene therapy

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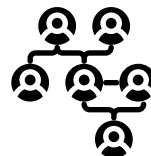
Clinical trials are a type of research that studies new tests and treatments and evaluates their effects on human health outcomes. (WHO definition)



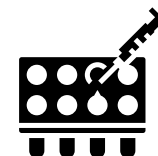
The aim of a clinical trial is to obtain authorisation to make effective therapies available to patients



The number of people with EB participating in clinical trials is small; because of this, the need for international trials is high



DEBRA has pledged more than €140,000 to develop and maintain a Global EB Patient Registry

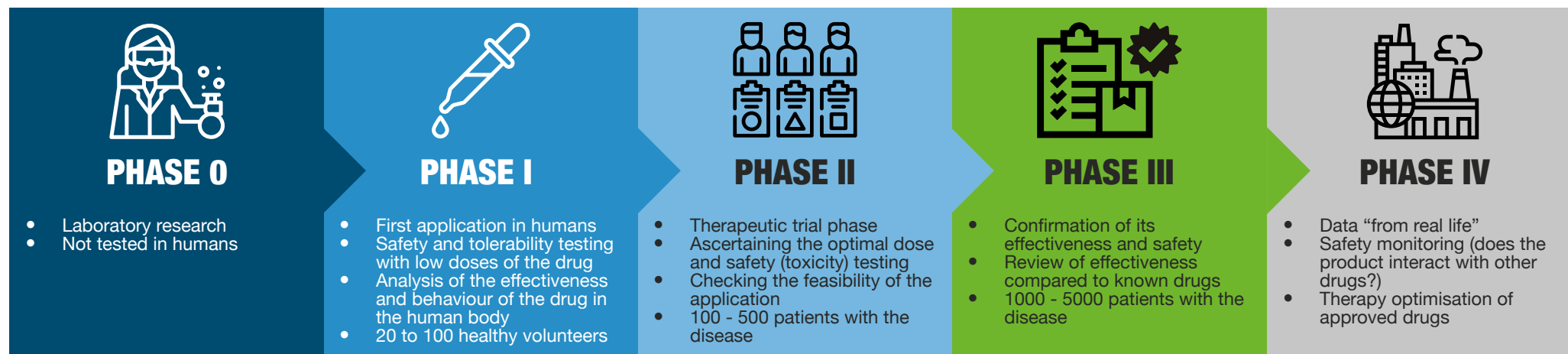


The Global EB Patient Registry will identify patients for clinical trials



The Global EB Patient Registry will help to monitor drug safety

STANDARD CLINICAL TRIAL PHASES



CLINICAL TRIAL TERMS



Open-label

Open-label trials can be used to compare two very similar treatments to see which is most effective. Both researchers and participants know if they are getting the treatment or the placebo



Comparative

When the investigative drug is compared against a placebo or another active drug



Blinded

When information is withheld from one or all those conducting or participating in the trial to reduce bias



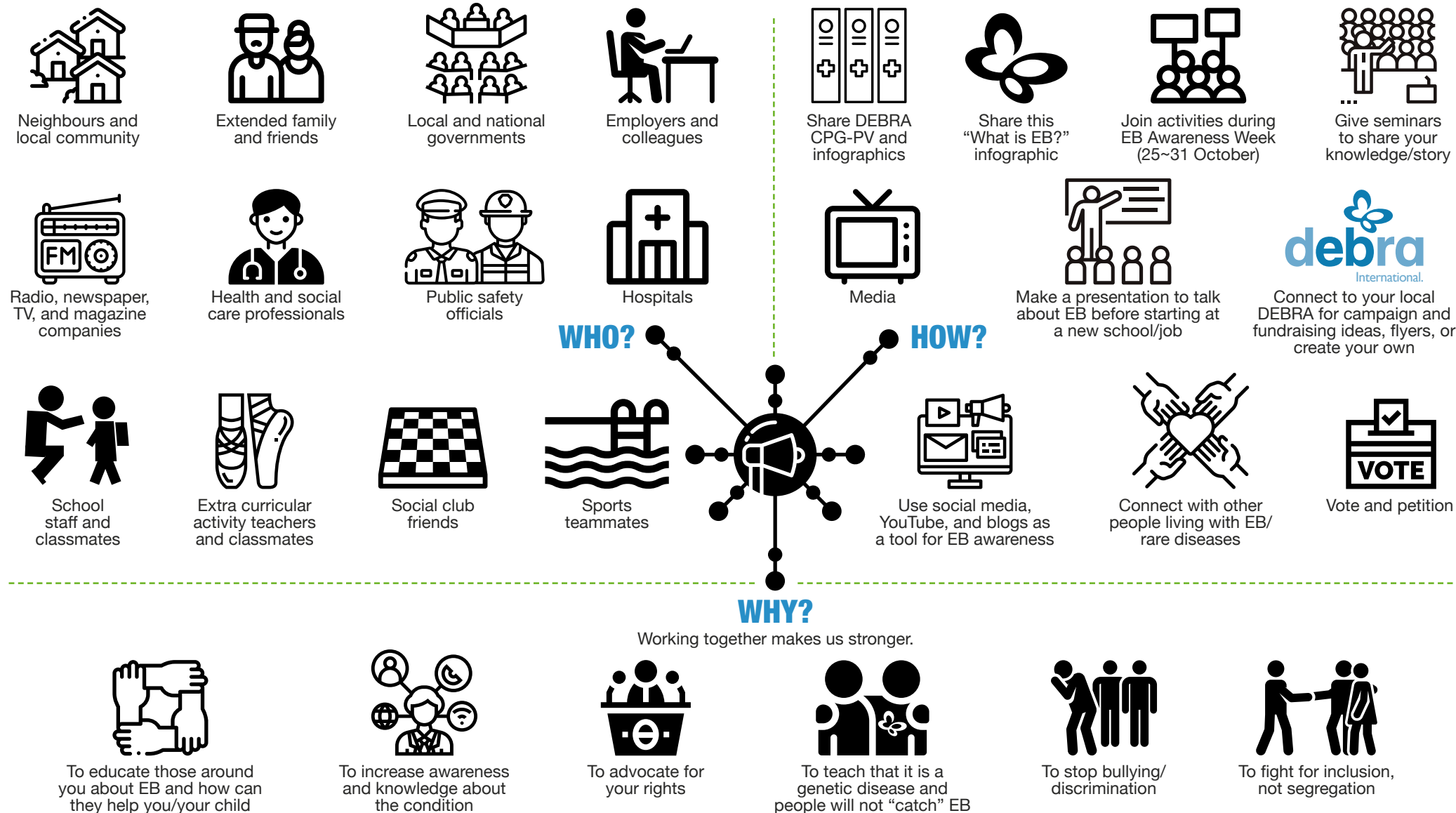
Randomised

Participants are randomly allocated to receive the treatment or placebo

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EB AWARENESS



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EB symptoms can vary from mild to severe, even within the same subtype



Treatment should be tailored to each person



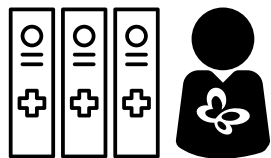
An integrated care plan should be coordinated by an interdisciplinary team



Even in cases where the life expectancy is poor, each individual condition cannot be predicted



The inclusion of a palliative care team may be recommended in severe cases



Read the Clinical Practice Guidelines (CPGs)/Patient Versions for more information



This icon has important information on what you should avoid



Consult with your doctor or EB healthcare professional before using the EB infographics



Your baby may and should be touched one way or another to help with bonding



A child with EB will bring much love, laughs, and beautiful experiences

OTHER EB INFOGRAPHIC BOOKLETS

EB requires a interdisciplinary team for the care of EB. Wound treatment alone is not effective as we also need to learn about a healthy diet and other topics. Check the other infographics that we have created to help you manage life with EB.



Balanced life and social life



Care of a newborn



Healthy body and skin



Healthy eating and nutrition



Healthy mind and control



Pregnancy and birth



Stay active and mobile



What is EB?

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CONTACT INFORMATION

DEBRA INTERNATIONAL

DEBRA International is the umbrella organisation for a worldwide network of national groups that work on behalf of those affected by the rare genetic skin blistering condition, epidermolysis bullosa (EB). The first DEBRA group was created over 40 years ago; there are now groups present in over 50 countries around the world.

www.debra-international.org

office@debra-international.org

EB WITHOUT BORDERS

EB Without Borders is a key initiative of DEBRA International. Its mission is to help patients, families, and doctors in countries where there is no DEBRA structure to support them, and to assist new groups to form and develop.

ebwb@debra-international.org

EB INFOGRAPHICS SURVEY

Help DEBRA International evaluate how the EB infographics are helping you. Complete the survey to give your opinions and suggestions.

<https://surveyhero.com/c/EBinfographics>

EB CARD

Our EB card has been designed to help you easily explain to anyone in your community what EB is and how it affects you/your child. It also provides key medical care information for health professionals looking after you who may not have treated someone with EB before. You can download and print as many EB cards as you like from our website.

We advise checking with your local DEBRA group to see whether they have already designed their own card for you to use.

www.debra-international.org/eb-card



DEBRA International Congress in New Zealand (2017) Photo credits: ©Silver Duck

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Get involved with **DEBRA International**

THE WORLD'S LEADING EB PATIENT ADVOCACY AND SUPPORT NETWORK

DEBRA INTERNATIONAL IS REGISTERED AS A CHARITY IN AUSTRIA (ZVR 932762489)



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