

# This is how life feels to people with EB.

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### 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 "INTERNATIONAL CONSENSUS Best Practice Guidelines Skin and wound care in EPIDERMOLYSIS BULLOSA", "Management of cutaneous squamous cell carcinoma in patients with epidermolysis bullosa: best clinical practice guidelines" and the "Foot care in Epidermolysis bullosa: Evidence-based Guideline", and from expert opinion. The information and recommendations in the guidelines come from a variety of sources including clinical research and expert opinion.

The guidelines provide recommendations for clinical care. They are based on evidence gained from medical science and, when no evidence exists, on 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**

The information contained in this EB infographics booklet does not indicate an exclusive course of action or serve as a standard of medical care. Variations, taking individual circumstances into account, may be appropriate. Users of this booklet are strongly recommended to confirm that the information contained within it is correct by way of independent sources. The development group of this EB infographics booklet has made considerable effort to ensure that the information provided is accurate and up to date. The development group and DEBRA International accept no responsibility for any inaccuracies; information perceived as misleading; or the success of any recommendations, advice, or suggestions detailed in this booklet.

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

## HYGIENE



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

Eating

Wet your hands and

apply enough soap

Drinking

Cooking

## **CLEAN WATER**



### **DO NOT USE UNSAFE WATER**

Do not use water from rivers, lakes, or other sources even if it looks clean



### **CLEAN WATER SAFE FOR DRINKING**

Make sure the water is clean and safe for drinking. If you do not have access to clean water, follow our instructions on how to make your water safe.





Filtered water



Boiled water

### IF YOU DO NOT HAVE CLEAN WATER Bring the water to a rolling boil for 3 minutes and cool down before drinking and bathing

Boil for 3 minutes Cool down completely.

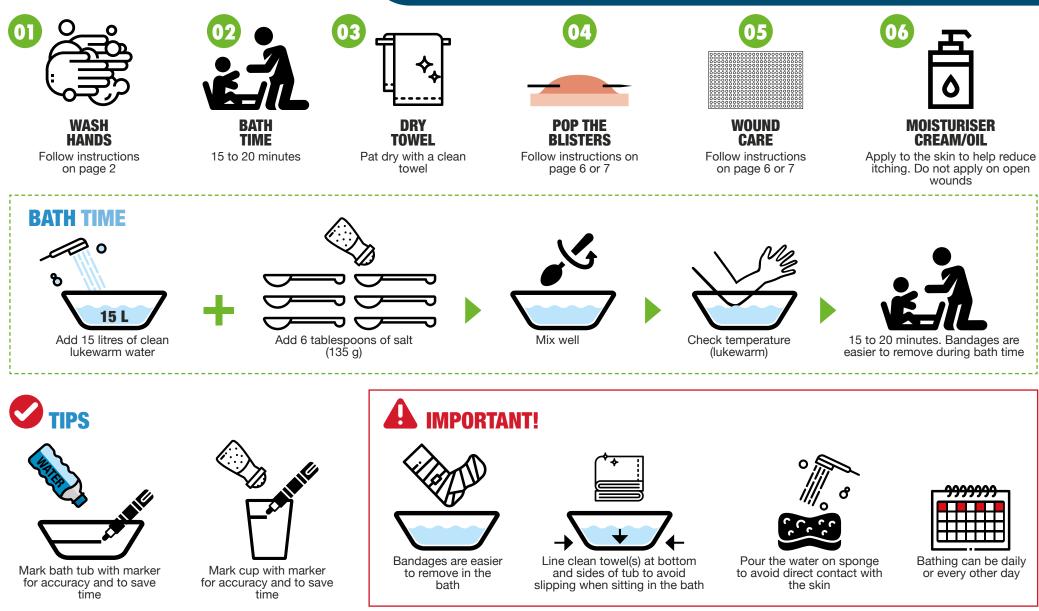
Do not use ice



Clean water safe for drinking

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

## **SALT BATH - HELP REDUCE THE PAIN**



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

## **BLEACH BATH - HELP PREVENT SKIN INFECTIONS**



Bath 2 times a week

(maximum)

Make sure the room

is well ventilated

Pour the water on

sponge to avoid

direct contact with

the skin

5 DEBRA INTERNATIONAL HEALTHY BODY AND SKIN

Line clean towel(s) at

bottom and sides of tub

to avoid slipping when

sitting in the bath

Bandages are easier

to remove in the

bath

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Do not give bleach

baths to babies

under 1 year old

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

Do not drink! Keep

away from children!

Avoid contact

with eyes!

## **WOUND CARE - SUPERFICIAL WOUNDS**



Prepare all dressing material in suitable sizes and amounts in advance to keep dressing changing times shorter

**SKIN SURFACE** Use a clean needle to create an entry

and exit hole so the fluid can escape

Roll a soft clean cloth over the blister to expel fluid



The roof should be left on the blister to protect the wound



Remove dead skin around the open wound

**IPORTANT** 



Use protective bandages in areas of constant friction

Some people from very hot countries prefer not to use bandades



Corn starch can be used for the feet to help drv out blisters and reduce friction. Do not use on the nappy/ diaper area



Wash scissors with soap and water, and rub an alcohol-based product on the surface. Utensils are for individual use only



Scissors with no pointy ends can be used to create an entry and exit hole instead of a syringe needle

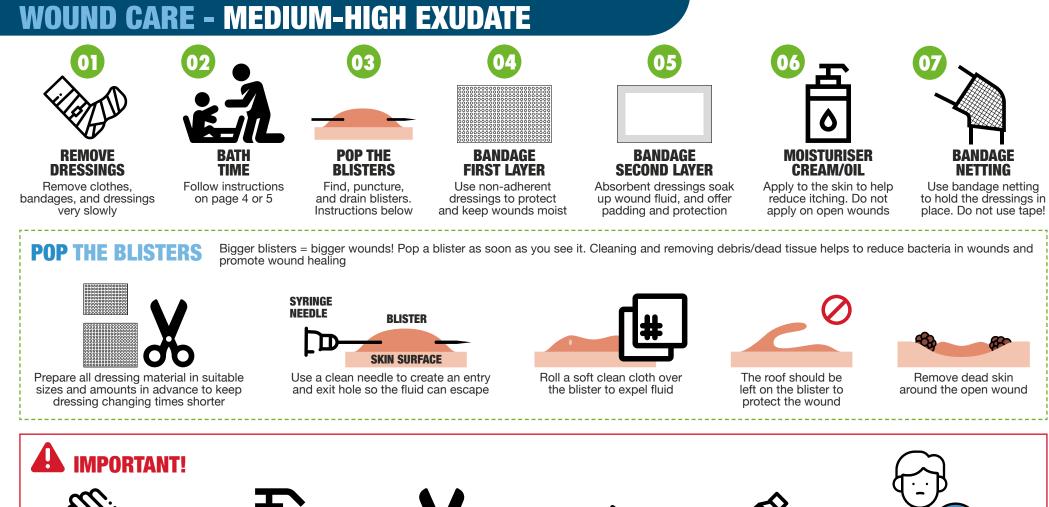


11 and 12.



Antimicrobial cream circumstances, such as can be used if the war or natural disasters. wound is infected. follow options on pages Always consult with vour doctor first

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





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7

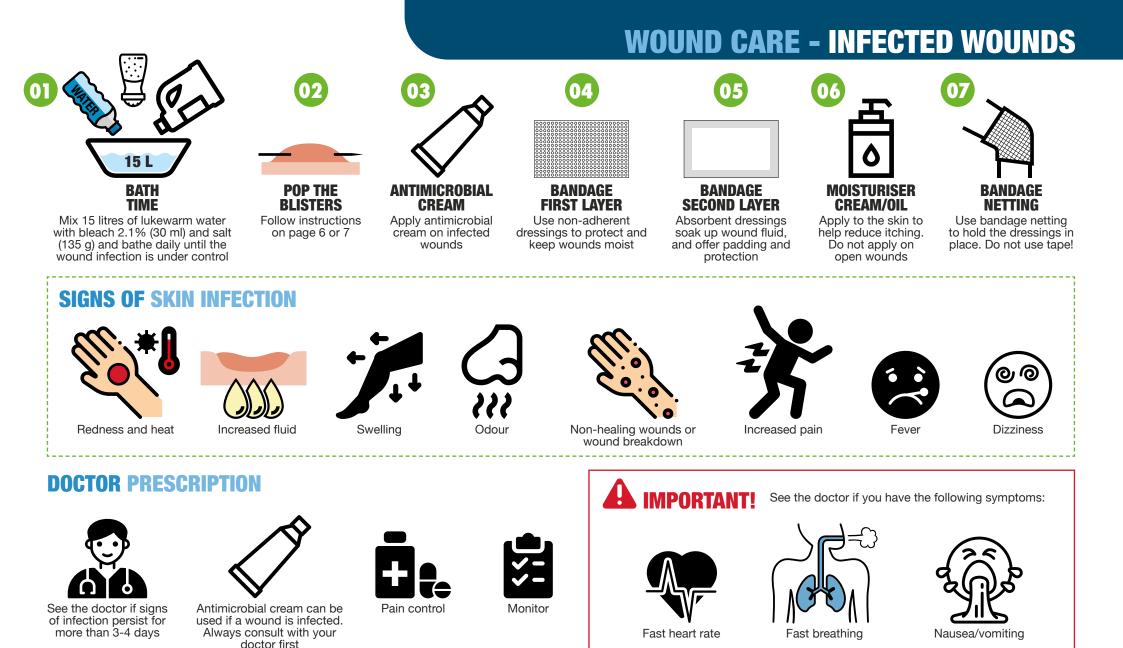
In cases of extreme circumstances, such as war or natural disasters, follow options on pages 11 and 12.



Antimicrobial cream can be used if the wound is infected. Always consult with your doctor first



There is a high risk of developing SCC for people with severe recessive dystrophic EB (severe RDEB). Check page 9 for signs of SCC



## **SIGNS OF SQUAMOUS CELL CARCINOMA (SCC)**

There is a high risk of developing SCC (skin cancer) for people with severe recessive dystrophic EB (severe RDEB). For other groups (dominant dystrophic EB, intermediate RDEB, RDEB inversa, pretibial dystrophic EB, EB pruriginosa, intermediate junctional EB, and Kindler EB), the risk is not so high and it does not usually occur as early. Clinical screening for these lower-risk groups should usually start from age 20 years and take place every 6–12 months.





There is a high risk of developing SCC for people with severe RDEB

People with severe RDEB should have a full skin examination every 3–6 months from age 10 years



Areas of skin clinically suspicious for SCC should be biopsied for histological evaluation



Clinical screening should be undertaken by a dermatologist and/or specialist nurse with experience of EB wounds where possible



If an SCC is diagnosed, 3-monthly screenings should be undertaken subsequently

### SIGNS OF SQUAMOUS CELL CARCINOMA (SCC)

People with severe RDEB should see the doctor regularly to check for signs of skin cancer.



A nonhealing wound, lasting longer than normal EB wounds (e.g. 4 weeks or more)



A rapidly growing wound, especially one that is heaped up, resembling exuberant granulation tissue



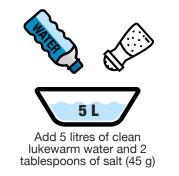
A wound with altered sensation relative to normal EB wounds (e.g. tingling or increased pain)



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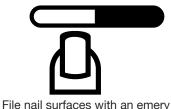
## **FOOTWEAR AND NAIL CARE**

### NAIL CARE FOR TOES AND FINGERS





them in lukewarm water with salt



File nail surfaces with an emery board and keep nails trimmed straight across

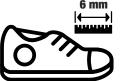


For adults and thick nails = daily For children = once per week



metatarsal heads

The pivot point of the balls of the feet and metatarsal heads are where blistering tends to be most prevalent



There must be a minimum of 6 mm in front of the longest toe



Styles with a lace, touch and close fastening, or buckle provide most adjustment



The heel must not slip up and down at the back



Ideally the tread pattern should extend over the whole sole and heel area



There should be enough width in the shoe to accommodate the whole foot; there should be no pressure points

Shoes with sheep skin inside can offer cushioning. Be aware of overheating



For summer choose shoes that let the feet breathe

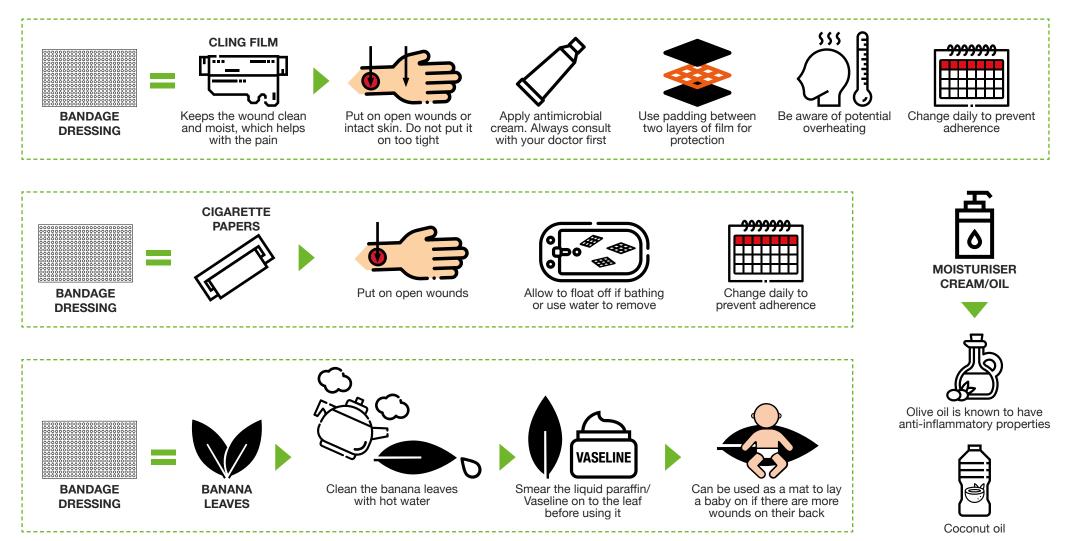


Healthcare professionals and people with EB have reported the benefit of using corn starch on the soles of the feet and in between the toes to help control excessive moisture and reduce friction

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

## **WOUND CARE - EXTREME CIRCUMSTANCES**

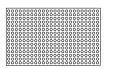
**IPORTANT!** The following unorthodox wound care options should only be used in the cases of exceptional or extreme circumstances, such as war or natural disasters. For all other situations, please follow the products used in the Skin and Wound Care guidelines



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GAUZE





or infact skin



Spread with greasy emollient



Change daily to prevent adherence

### **VASELINE AND LIQUID PARAFFIN**

Vaseline is classed as a barrier product so it will also help prevent friction. It is an ointment and greasy so it will also keep wounds moist, which is needed to aid wounds to heal.



## **VASELINE & COLLAGEN**

Some healthcare professionals with experience working with people with EB in India have noticed a benefit of mixing Vaseline with collagen particles that are obtained from fish collagen.

The paste mix can be applied to wounds directly. It will form a thin film to help the wound heal well.



TIPS

If you are unable to get an alcohol-based product to clean scissors, follow the method below:



Boil scissors for 15 minutes if you want to reuse them. For individual use only

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

## **ICON KEY**



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



Do not face the shower head directly towards the skin as this can be painful



Do not stay in the bath for longer than instructed. Cells can take up water and later leak out making dressings wet. Salt baths help to avoid this



If you do not have a bath, you can use a blow-up swimming pool. It must be cleaned well after use



If you do not have a bath, soak clean gauze in bath mixture and put on the wounds for at least 15 minutes. Do not allow the gauze to dry out. See pages 4 and 5 for bath mixture options



dressings in a

clean container

until used



important information on what vou should not do



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

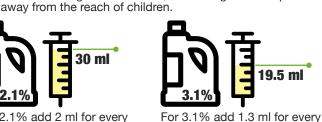


Tablespoon sizes can varv. Öne tablespoon = 22.5 g (salt)



30 ml

For 2.1% add 2 ml for every litre of water. 15 L = 30 ml



litre of water. 15 L = 19.5 ml

Mix 15 litres of lukewarm water with bleach. Follow instructions below for the amount of bleach for each strength. To measure, use a single use disposable syringe. If reusing, label and store



For 4.2% add 1 ml for every litre of water. 15 L = 15 ml

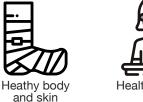
### OTHER EB INFOGRAPHIC BOOKLETS

EB requires a multidisciplinary 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.





Care of a newborn



Healthy eating and nutrition



Healthy mind and control



Pregnancy and birth





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

## **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



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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)

