

Beat the Bugs: A Handbook for Community Care Workers in the Pilbara: an update

2025









About this handbook

- This Keeping Skin Healthy handbook is for community care workers to support communities in Newman and the Western Desert, Pilbara.
- This handbook was has been updated in 2025 to reflect changes in the National Healthy Skin Guidelines (2nd Edition) which was launched in 2023.
- Several of the pictures and illustrations are from the Menzies School of Health Research and Lowitja Institute East Arnhem Regional Healthy Skin Project.
- Cover page artwork is from Martumili Ngurra 2009, by Kumpaya Girgaba, Jakayu Biljabu, Ngamaru Bidu, Thelma Judson, Ngalangka Nola Taylor and Jane Girgaba.

Citation:

Walker, Roz; Wyndow, Paula; Anshelevich, Ellen; Zheng, Andy; Mullane, Marianne; Amgarth-Duff, Ingrid and Bowen, Asha. Beat the Bugs: A handbook for community care workers in the Pilbara. Telethon Kids Institute, June 2025.







Acknowledgement of country

We acknowledge Aboriginal and Torres Strait Islander people as the Traditional Custodians of the land, sky and waters of Australia. We acknowledge the Elders and seek their wisdom in our work to improve the skin health of all children. We acknowledge the Aboriginal and Torres Strait Islander people who have contributed to the development of this resource, and Aboriginal and Torres Strait Islander families across Australia who will use and benefit from the information contained in 'Beat the Bugs'.

Background

This Handbook was developed in response to the findings of four studies conducted with the Western Desert communities since 2007:

- Staying on track: Implementing the Australian Early Development Index in the Pilbara. Roz Walker (2007-2009) funded by BHP
- Aboriginal maternal health and child development program. Roz Walker (2010-2013) funded by BHP
- A PhD study titled: Revealing the public health significance of skin infections among Aboriginal children living in the Pilbara: A call to action in Western Australia. David Hendrickx (2018)
- An Honours research study: Talking skin: Attitudes and practices around skin infections, treatment options, and their clinical management in a remote region in Western Australia. Ingrid Amgarth-Duff (2016)

Acknowledgements

- We would like to acknowledge the following people and organizations for their input in developing this community handbook: Dee Fitzgerald and Kim Gossage (Puntukurnu Aboriginal Medical Service); Peter Johnson and Yvonne Mkandara (Kanyirninpa Jukurrpa); and Ellen Anshelevich and Andy Zheng, visiting student interns, Princeton University, USA.
- We would also like to acknowledge the generosity of Martu families and communities across
 the Western Desert and local health professionals and stakeholders for sharing their
 knowledge and experiences throughout the research studies and contributing to the
 development of this resource.

The purpose of this handbook

This handbook focuses on things Martu people told us would help keep skin healthy:

- Having home visits by Martu health workers to provide medicine
- Talking with families about skin infections and best treatment options
- Involving families and communities in decisions to get healthy skin for their kids.



Yarrkalpa – Hunting Ground, Parnngurr Area, 2013 by Kumpaya Girgirba, Ngamaru Bidu, Thelma Judson, Reena Rogers, Yuwali Janice Nixon, Karnu Nancy Taylor, Nola Taylor, Yikartu Bumba

Yinta, 2009, by Jakayu Biljabu

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Why is skin so important?

- Skin is our largest organ, so we have to keep it safe!
- It protects our bodies, other organs, and our blood
- If your skin is sick, the rest of your body can get sick too



How can I keep my family's skin healthy?

- Wash body, hands and face with soap
- Wash children every day
- Eat good tucker every day

Other suggestions for **keeping skin healthy**:



Prevent

- Wash towels, clothes and bedding regularly and dry in sun
- Wear shoes, long pants and long sleeves in the bush

Care

- Moisturise dry, cracked skin
- Cover skin sores from dirt or scratching
- Apply bush medicines

Check

If skin is not getting better, talk to your community care worker or go to the clinic

Beat the Bugs that attack your skin!



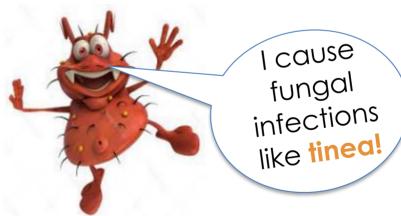




Scottie the Scabies Mite



Mr. Steve the Staph bug



Fred the Fungus

These bugs are so tiny you can't see them, but they are very harmful



Skin sores (Impetigo)

- Skin sores happen when
 Stephie the Strep bug and
 Steve the Staph bug get into
 the skin through cuts and
 bites
- This is very common in children

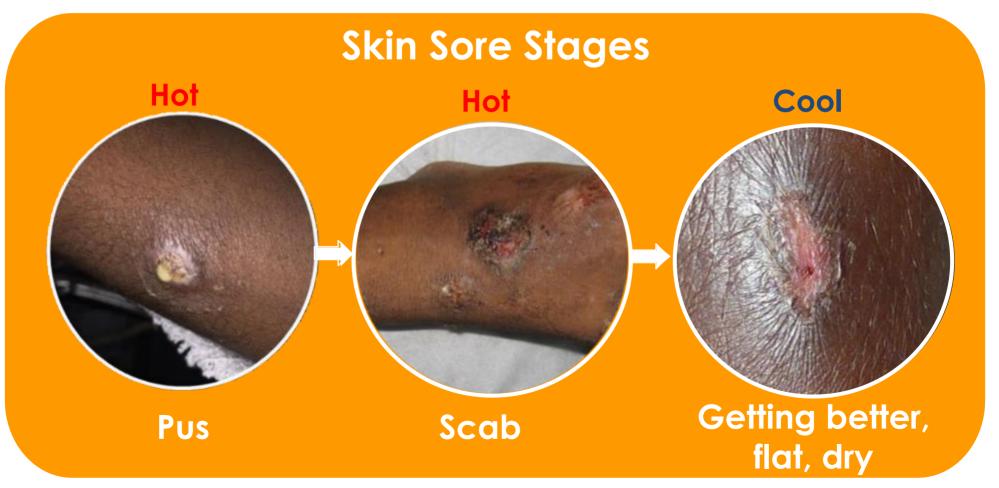
Look for:

- Yellow-brown scabbed sores
- Sores with pus



What are the stages of skin sores?

It is very important to treat skin sores(impetigo) straight away



Skin sores that are **HOT**

These have pus





Pus









Skin sores that are COOL

These sores are healing







Stephie and Steve bugs are dead!!

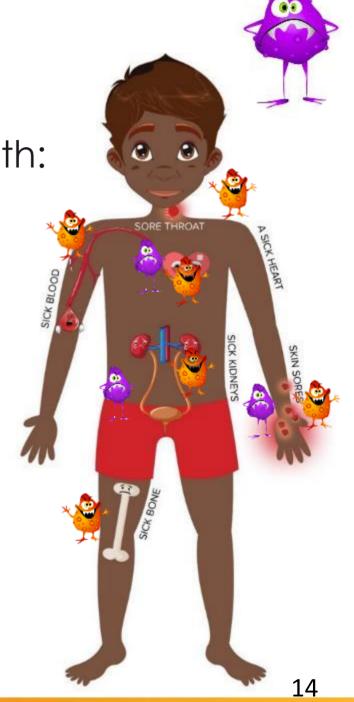


How can skin sores hurt me?

Stephie the Strep bug and Steve the Staph bug can make you very sick with:

- Boils
- Sepsis = Sick Blood
- Bone and Joint infections
- Kidney Disease
- Rheumatic Heart Disease





If these sicknesses aren't treated properly, you might have to go to hospital



What if I've got a HOT skin sore?

- Oo to the clinic straight away!
- The clinic will give you medicine and tell you when and how to take it
- Your community care worker will help you with your treatment plan





What medicines treat skin sores?

A OR B

Oral Septrin (drink medicine OR tablet)
No needles



Morning and Night for <u>3 days</u>

Benzathine penicillin needle

A needle in the thigh



One dose straight away

What if my medicine does not work? They might be tricky bugs!

- First, make sure you took all your medicine
- Tricky bugs look the same as skin sores but sometimes a different medicine might be needed to beat them
- Talk to your community care worker or nurse if you are worried that the sores are still hot!



Hot skin sore

What if I've got Tricky Bugs?

The clinic **will swab** to check what bug is there



The doctor may give you new medicine when they find out what bug it is



Boils

Happen when Steve the Staph bug gets into a hair root or sweat pore

Look for:

- One or more red lumps
- Sometimes fever
- Usually on face, neck, armpits, shoulders and bottom
- Boils often need incision and drainage
- Boils are treated with oral septrin morning and night for 7 days





How can I protect my family from

skin sores and boils?

Wash children every day



Wash hands and face with soap and water

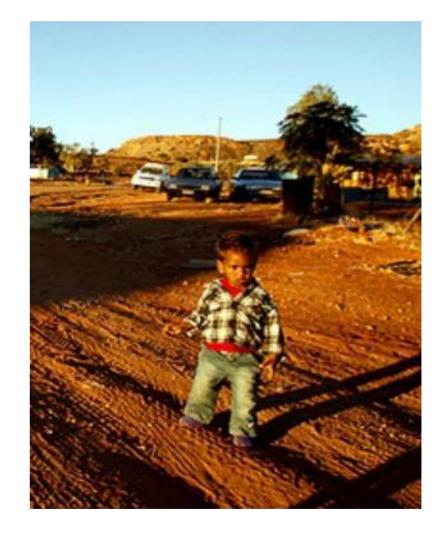


Wash and dry towels, clothes and bedding often



Wear shoes, long pants, and long sleeves in the bush

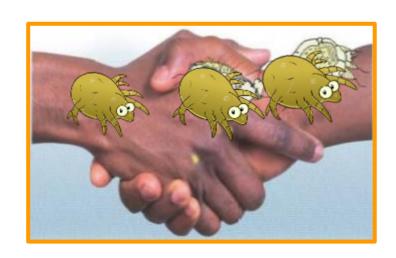




Scabies

- You get scabies when Scottie the Scabies mite crawls under your skin and lays eggs
- You can get scabies from other people with scabies if you touch their skin, their clothes, or the bed they sleep on







How do I know if I've got Scabies?

Look for:

- Itching, sometimes over the whole body and more itchy at night
- Scratches, sores on wrists, elbows, knees, ankles and bottom, and between fingers and toes
- Pimple-like bumps on the hands and feet of babies and sometimes their whole body





What do I use if I've got Scabies? A OR F

Topical permethrin cream 5% all over body





Apply straight away and again in 7 days

Oral ivermectin 200
micrograms/kg for
children over 5
years old (or over
15kg)



One dose straight away and again in 7 days

How can I protect my family against Scabies?



- Wash your hands with soap and dry them properly
- If one person living in the house has scabies, all others living there or in close contact should be checked for scabies
 - Treat scabies straight away.
- **A)** If itchy skin or papules, treat for scabies with 2 doses, 7 days apart
- B) If no symptoms, single dose of scabies treatment is needed

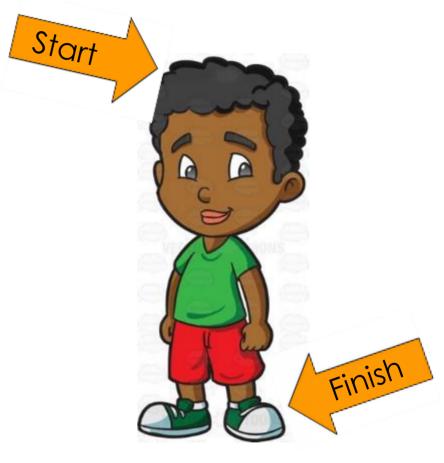




What do I do if I've got Scabies?

How to use the permethrin cream

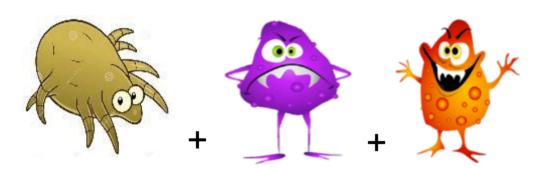
- Rub cream on clean and dry skin after bath/shower
- Rub cream over entire body (head to toe)
- No cream on the eyes, lips and mouth
- Rub more on hands again after washing
- Leave permethrin cream on for 8 hours, then wash off
- 6. Repeat treatment in one week



Cover your whole body head to toe!

What is Infected Scabies?

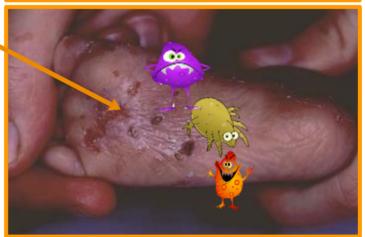
Infected Scabies happens when skin that has Scabies becomes infected with Stephie the Strep bug and Steve the Staph bug



Signs that scabies could be infected:
Look for: Scab and Pus



Scab





Pus

What if I've got infected scabies?



The clinic will give you medicines for both scabies and skin sores

Topical Permethrin Cream for Scabies

OR

Ivermectin for Scabies



Oral Septrin

Drink medicine for Skin Sores

OR

Benzathine penicillin needle for skin sores

Check preference for treatment with families











Why is treating Skin Sores and Scabies

so important?

It makes our skin healthy so it can protect our bodies and beat the bugs!





Kids with healthy skin are happier and do well at school

Tinea (Ringworm)



- Fred the fungus Tinea is a common fungal infection of the skin, scalp and nails
- Fred the fungus is a different bug and needs to be treated with different medicines
- It spreads mainly between people and dogs (and cats)
- It lasts a long time if you don't go to the clinic



How do I know if I've got Tinea?

Look for:

- Scaly patches on skin
- Darker and tougher skin
- Broken white or yellow nails



Remember: Fred the fungus can be anywhere!



Body tinea



Hand and thumbnail tinea



Nail tinea

What if I've got Tinea?





If your child or family member has tinea, go to the clinic straight away!



If Fred the Fungus is not treated, it can lead to other sickness, and you might need to go to the hospital.





What medicine is used to treat Tinea?



For small patches



OR



Terbinafine 1% cream



Morning and Night for 2 weeks or until cleared completely

Miconazole 2% cream



Morning and night for 4-6 weeks



What medicine is used to treat Tinea?





For big rashes

Oral terbinafine (Lamisil pill)







Once a day for 2-4 weeks

What if I've got Tinea of the scalp?



✓ Oral terbinafine (Lamisil pill) OR oral griseofulvin

Once a day for 4-6 weeks or



Scalp Tinea

(cerinafine typicothoride)
Oral Granules

125 mg
Honories base representant or patient
Control Control



/ Antifungal shampoo

(ketoconazole)

Wash hair and scalp with this shampoo often while taking the tablets





Photo from Dermnet https://www.dermnetnz.org/, Image courtesy of DermNet NZ https://creativecommons.org/licenses/by-nc-nd/3.0/nz/legalcode

What if I've got nail Tinea?





Oral terbinafine (Lamisil pill)

- Once a day for 4-6 weeks (fingernails)
- Once a day for 12 weeks (toenails)



Oral griseofulvin

Once a day for at least 4 months (fingernails)

Once a day for at least 6 months (toenails)











How can I protect my family against Tinea?

- Treat tinea straight away
- Wash your hands with soap and dry them with a clean towel
- Check other family members and community pets for tinea
- Keep dogs outside the house
- Avoid sharing pillows, towels, hair combs or brushes, hair elastic, hats etc
- Use bush medicines



Head Lice

- Blood sucking visible insects that live on the scalp
- Spread between people as well as objects like combs, hats and hair ties.
- Very common in children
- Very itchy

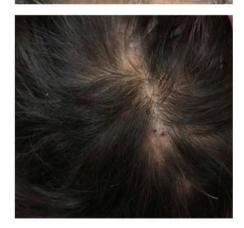




Look for:

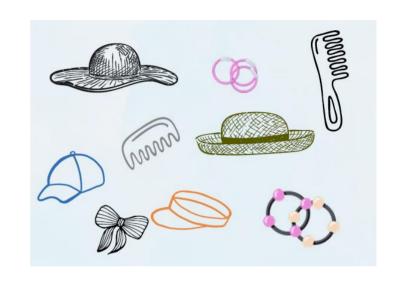
- Moving adult lice in good light
- Brown or white eggs stuck on hair near the scalp
- Sores on the scalp





How can I try to prevent head lice?

- Avoid sharing hair combs and brushes, hair ties, hats and scarves used on the head
- Keep hair short or tied back
- Regular hot washing of clothes, towels and bedding





How do we treat head lice?

Most families make their own diagnosis of head lice

Current guidelines recommend topical lotions for treatment

Topical pyrethrin shampoo. Repeat treatment after 1 week.

OR Dimeticone 4%. If using lotion, leave on for at least 8 hours then rinse out with warm water OR if using fast-acting gel, leave on for 15 minutes then rinse out with warm water. Repeat treatment after 1 week.

OR Malathion 0.5% shampoo, leave on for 12 hours, then rinse out with warm water. Repeat treatment after 1 week.

OR Malathion 1% foam, leave on for 30 minutes then rinse out with warm water. Repeat treatment after 1 week.



A combination of topical treatment and thorough combing of the hair with a head lice comb is needed to remove live lice and eggs

Hand, foot and mouth virus

- Happens when a virus gets into your body
- Hand, foot and mouth (HFM) virus makes it easier for the other bugs to get into your skin
- It is very common in children
- If your child has HFM once, they are unlikely to get it again
- Always go to the clinic if your child's skin is not healthy

Look for:

- Rash in the mouth, on the hands and feet
- Fever
- Runny nose

How can I protect my kids against Hand, foot and mouth virus?

- Always wash your hands with soap after changing baby's nappies or going to the toilet
- Wash toys that children play with





Keep kids home from childcare or school until the rash is gone to stop other kids getting sick

Environmental health is also important!

Healthy skin needs healthy homes!



Running water!



Taps that work!



Rubbish in bins and bags!



Places to store food. Stove & fridge working!



Clean floors!



A clean towel for everyone!



Washing line, pegs and basket!

Environmental health is also important!Healthy skin needs healthy communities



Good tucker in local store



Work together to clean up rubbish in your community



Keep dogs outside homes

Have a yarn with the environmental health team about ways to make your community healthy







Keeping Skin Healthy

Keeps communities healthy and their children healthy, happy and doing well at school

Checklist of things to talk about

	Wash hands often*	Wear long pants, long sleeves and shoes in bush	Wash body, bedding, toys and clothes and dry properly	Go to clinic and treat straight away	Keep dogs outside home	Contagious when hot (pus and scab)	Check other family members	Healthy homes and communities
Skin sores/ boils	1	1	1	1	1	1	1	1
Scabies/ infected scabies	1	1	1	1	1	1	1	1
Tinea	1	1	1	1	1	1	1	1
Hand, foot and mouth virus	√		√	√	√	√	√	

^{*}Especially after changing nappies and going to the toilet and before eating or preparing food

Let's work together to beat the bugs!

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