



CQI Collaborative – Alice Springs

“A Care Coordination Approach to Driving Horizontal and Vertical Change Across the System for Eliminating Crusted Scabies”

October 2018

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**ONE  
DISEASE**  
BELIEVE. CONNECT. INSPIRE

# One Disease (at a time...)



- **Dr Sam Prince:** medical doctor, humanitarian, entrepreneur and philanthropist.
- Prof. Frank Bowden, the EASCP, and *The Healthy Skin Mob* (**One Disease at a Time**).
- **Our Steering Committee & Board:** experts in infectious disease, dermatology, Indigenous health, and business who offer their input and guidance.
- **Control of communicable disease** through the application of public health principles.



# One Disease (at a time...)

## Pilot Project in East Arnhem Land. [Key Learnings:](#)

- Partnership, participation, integration.
- Health literacy two ways (patient, household, family, clinic, community).
- Community based champions
- Chronic Case Management approach.
- Adding value to the [systems](#) that support self management of Crusted Scabies.



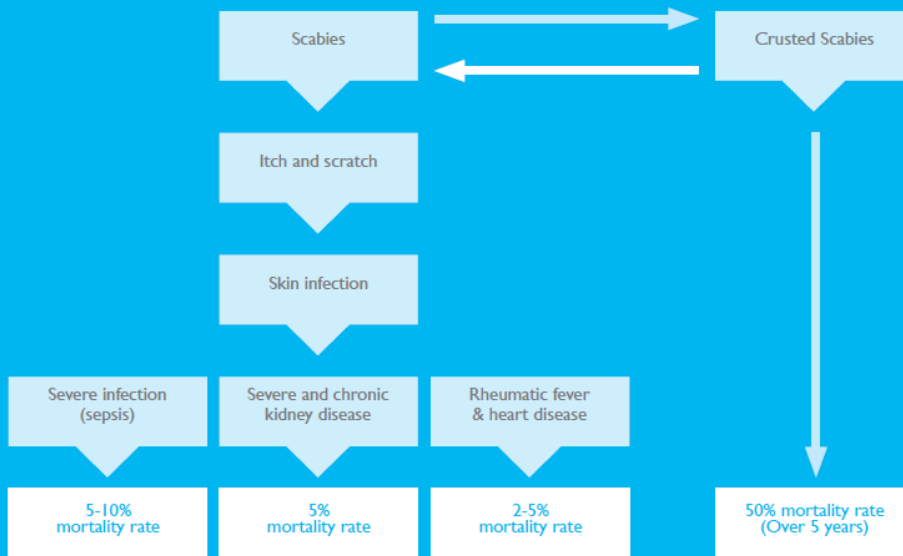
*This message stick was exchanged between senior community members and One Disease.*



Med J Aust 2014; 200 (11): 644-648. "Crusted scabies in remote Australia, a new way forward: lessons and outcomes from the East Arnhem Scabies Control Program"

# Why Crusted Scabies?

## IMPACTS OF SCABIES AND CRUSTED SCABIES



- Scabies has recently been upgraded by the WHO as a *Category A Neglected Tropical Disease*.
- Crusted Scabies is a **Notifiable Disease**, *Notifiable Diseases Act 2016* in the NT.
- People suffering from Crusted Scabies are **core transmitters** of scabies, spreading it to others in their household and community.
- **Elimination of Crusted Scabies is the crucial first step to addressing scabies** which is endemic across remote communities.

# What is Crusted Scabies?

- Crusted Scabies is a highly contagious and chronic form of scabies.
- A disfiguring and debilitating disease among individuals whose **immune systems** are unable to control mite replication.
- 100'000's > millions of mites
- **Hyperkeratotic skin**, creamy scaly plaques of skin.
- Undiagnosed and/or poorly managed Crusted Scabies can lead to **recurrent infestations of scabies among close contacts**.

# What is Crusted Scabies?





# One Disease aims to Eliminate Crusted Scabies from the NT by 2019, and across Australia by 2022.

**Goal 1:** To improve detection and diagnosis of Crusted Scabies.

**Goal 2:** To prevent reoccurrence of Crusted Scabies in clients who have been successfully treated, by embedding local systems, and ensuring treated clients live in a "Scabies Free Zone".



# Prevalence Audit of Clinical Files

- Clinical audit of files undertaken to determine the number of clients with a definite diagnosis of Crusted Scabies according to CARPA 6TH Edition and the CDC case definition for Notification.
- No of confirmed Crusted Scabies cases in the Top End (positive Skin Scrapings & IFD Confirmation): 84 (488)
- No of cases with another chronic disease: 79/84





# Prevalence Audit of Clinical Files

- Findings...
  - Misdiagnosis
  - Timeliness of diagnosis
  - Documentation of long term care
  - Adherence to treatment schedules
  - Scabies Free Zone
- Learnings...
  - Lots of infected sores, diagnosed as Crusted Scabies
  - Education is required for effective detection, diagnosis, & management of Crusted Scabies
  - Care coordination at community health level is required for long term management and preventing recurrence of Crusted Scabies infections.



# Improve detection and diagnosis of Crusted Scabies

- Misdiagnosis
  - Clinical Guidelines
  - RAHC eLearning module
  - In-services, seminars, conferences
- Timeliness of diagnosis
  - Videomicroscopy Pilot
  - Skin Scraping Procedure Video
- Documentation of long term care
  - Care Plan with recall reminders for skin checks in CIS



# Prevent reoccurrence of Crusted Scabies in clients who have been successfully treated

- Treatment Schedules
  - Development of bedside Care Pathway
  - Lorraine Brennan Centre
- Discharge to a Scabies Free Zone
  - Care Coordination
  - Notifiability (Contact Tracing & Treatment of whole of household)
  - Health Literacy
  - Health Promotion
  - Healthy Homes: Health Hardware
  - Recurrences in children






# Evaluating the One Disease Elimination Strategy

Criteria for Elimination Programs (from literature)	Evaluation of One Disease work in the Top End July 2018
<p><b>Targeted Vertical Approach:</b></p> <p>Additional to what control programs offer which are horizontal programs focused on strengthening primary care, improving surveillance and training personnel.</p>	<p><b>Vertical:</b></p> <ul style="list-style-type: none"> <li>• Program has well defined objectives with identified timeframe for elimination</li> <li>• One single disease focus with a small population group</li> <li>• Endorsement from Federal Minister for Indigenous Health Ken Wyatt</li> <li>• COI results show that for every episode of CS prevented the health care system can expected to save \$31,209.20.</li> </ul> <p><b>Horizontal:</b></p> <ul style="list-style-type: none"> <li>• Coordination of services between specialists, hospitals and PHC</li> <li>• Coordination of public health, environmental and community services and households to support scabies free zone</li> <li>• Training, education, expert advice to staff</li> <li>• Education and support to individuals and households</li> <li>• Prevalence Audits of PHC records against case definition helps to establish accurate numbers</li> <li>• Trends in recurrences are positive and treatment completion and follow-up is improving.</li> <li>• Strengthening PHC systems to improve management &amp; lifelong follow-up in PHC (care pathways)</li> </ul> <p><b>Key Challenge in the NT:</b></p> <ul style="list-style-type: none"> <li>• Scabies free zone is difficult to sustain. Scabies endemic environments pose major risk for reinfection of treated CS patients.</li> </ul>

# On track towards elimination

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- 2018
- ✓ Top End: Improved detection of cases. Regular skin checks. Recurrence rate <10%. Care Pathways.
  - ✓ Establish partnerships to support Crusted Scabies management in Central, WA & QLD
- 2019
- ✓ NT – Improved detection of cases. Regular skin checks. Recurrence rate <10%. Care Pathways.
  - ✓ Central, WA, & Qld – Education & Support for detection & diagnosis & preventing recurrence of CS.
- 2020
- 2021
- ✓ Maintenance of systems change & local projects in the NT, WA, & Qld.
- 2022
- ✓ National elimination by 2022...

# Thank you!

For more information visit

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