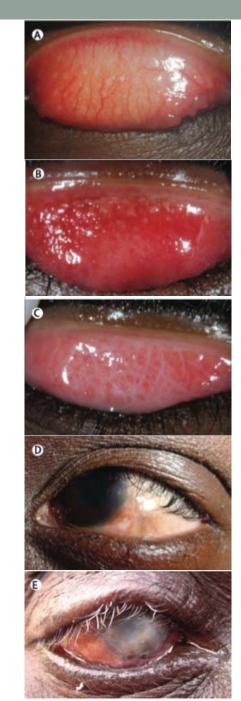
TRACHOMA MASS DRUG ADMINISTRATION AND HEALTH PROMOTION IN THE WESTERN AUSTRALIAN GOLDFIELDS

Matilda-Jane Oke



What is Trachoma?

- Contagious eye infection caused by
 Chlamydia trachomatis.
- Leading cause of preventable blindness worldwide.
- Australia is the only trachoma-endemic developed nation.
- Elimination is a public health priority.



World Health Organisation

- Global Elimination of Trachoma by 2020 (GET2020)
- SAFE Strategy



Surgery

Antibiotics

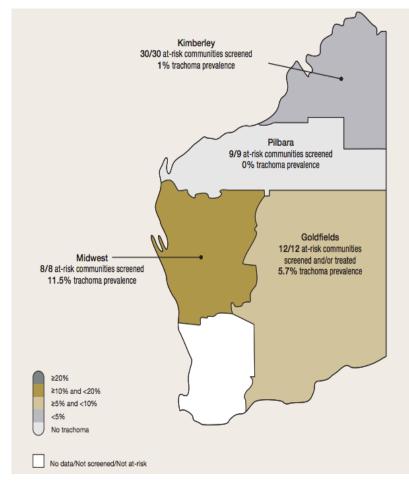
Facial Cleanliness

Environmental Improvements

http://trachoma.org/safe-strategy

Trachoma in the Goldfields

- 12 at-risk Indigenous communities.
- Prevalence 5.7%.
- WACHS-Goldfields Population Health Trachoma Program.
 - Part of state wide program overseen by WA Trachoma Reference Group.
- Aim: eliminate blinding trachoma in the Goldfields region by 2020.
 - WHO GET2020 signatory.



Australian Trachoma Surveillance Report 2014

TRACHOMA SCREENING (TF/TT)

TRACHOMA MASS DRUG ADMINISTRATION (MDA)





HEALTH PROMOTION AND EDUCATION



Images:

- Taylor, H. R. et al. (2014). Trachoma. Lancet, 384, 2142-2152.
- Huffington Post: 'Australia is the Only Developed Country to Still Have Trachoma'
- University of Melbourne: 'The Trachoma Story Kit'

Mass Drug Administration

• Manage Infectious Disease Control Measures (5.3.3)

Health Promotion: proposed 'soap' program

 Develop Health Promotion Programs in Response to Public Health Problems (5.1.2)



1. Mass Drug Administration

- Administration of drugs to whole populations irrespective of their disease status.
- Forms part of the WHO SAFE strategy.
- Single dose azithromycin.



Huffington Post: 'Australia is the Only Developed Country to Still Have Trachoma'

Table 2. Screening[#] and treatment schedule of contacts according to prevalence*.

Trachoma prevalence in screened children aged 5-9 years	Treatment	Treatment frequency	Screening frequency
≥20%	Single-dose azithromycin to people >3kg living in houses with children <15 years of age	0,6,12,18 & 24 months	Screen at 36 months after the initial screen (12 months after the 5 th treatment) [*]
≥5 to < 20% and there is no obvious clustering of cases	Single-dose azithromycin to people >3kg living in houses with children <15 years of age	0, 12 & 24 months	Screen at 36 months after the initial screen (12 months after the 3 rd treatment)*
≥5 to < 20% and cases are obviously clustered within several households and health staff can easily identify all household contacts of cases	Single-dose azithromycin to people >3kg living in houses with an active trachoma case	Once at 0 months. Further treatment determined by prevalence at next screen	Screen at 1 year to determine prevalence
<5%	Single-dose azithromycin to people >3kg living in houses with an active trachoma case	Once at 0 months and retreat if trachoma is found on further screening	Screen at 1, 3 and 5 years, then cease if prevalence <5% at each screen.

http://www.health.gov.au/internet/main/publishing.nsf/Content/D02F0C1C2AB90509CA257C66001C089C/\$File/Trachoma-SoNG.pdf

MDA Requirements

- Sufficient supplies.
- Aboriginal Health Worker support.
- Systematic approach to identifying non-treated individuals / houses.
- Identify azithromycin allergies and prophylaxis.
- Ensure MDA does not clash with other community activities.
- MDA (and screening) occurs during same 2-4 week period statewide.

Potential MDA Improvements

- Avoiding biscuits for side effect minimisation.
- Indelible stamps.
- Consent through permission slips.

Ethical Considerations

- Paternalism of MDA.
- Side effects of medications.
- Drug resistance.
- Cultural sensitivity.

2. Health Promotion

- The process of enabling people to increase control over, and to improve, their health.
- Plan to create a new environmental health program in trachoma endemic communities.
 - Environmental Health Advisory Group of WA Trachoma Reference Group
- Literature review → Education and hand washing with soap reduces childhood diarrhoeal illness.
 - McDonald, E. et al. BMC Public Health. 2008; 8(153).

Proposed Health Promotion Initiative

Goal

 Reduce incidence of common preventable childhood infections in trachoma endemic communities.

Strategies

- 1. Increase access of soap (free soap)
- Increase longevity and utility of soap (free soap holders)
- 3. Distribute simple hand hygiene messages

WHO SAFE strategy





http://aboriginal-hygiene-forteachers.weebly.com/hand-hygiene.html

Barriers to Soap Usage

- Cost
 - Soap available at community shops at prices similar to Perth.
 - Many community members believed it was too expensive.
- Reduced hygiene education
 - McDonald, E. et al. Health Promotion International. 2010; 25(1):42-53.
 - Most participants did not have a good understanding about hygiene.
 - Positive effects of using soap not well recognised.
 - Purchasing soap not a priority.

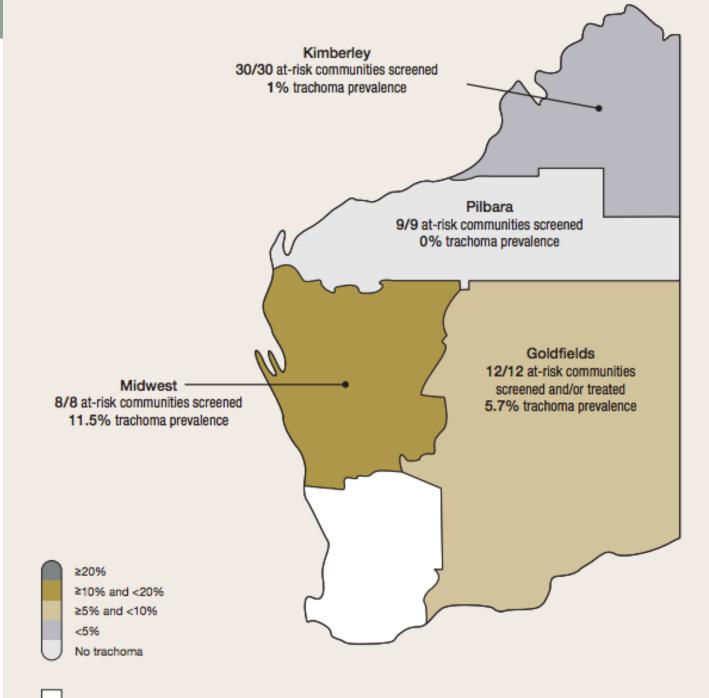
Data Collection

- Data collection tool to assess program acceptability.
- Data obtained by engaging adults during MDA.
- Free soap provided.
- Response: 100% positive.
 - Potential adjunct to current health promotion strategies.
- Successful health promotion program.
 - Evidence-based, simple, cost effective, acceptable.

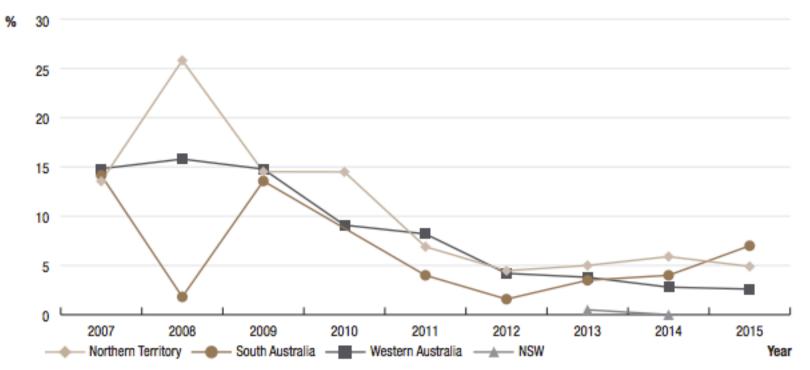
Considerations

- Is giving out soap long term sustainable?
- Impact on local shops?
- Will there be increased wastage?
- Bars vs. soft soap?
- Consistency between home and school?

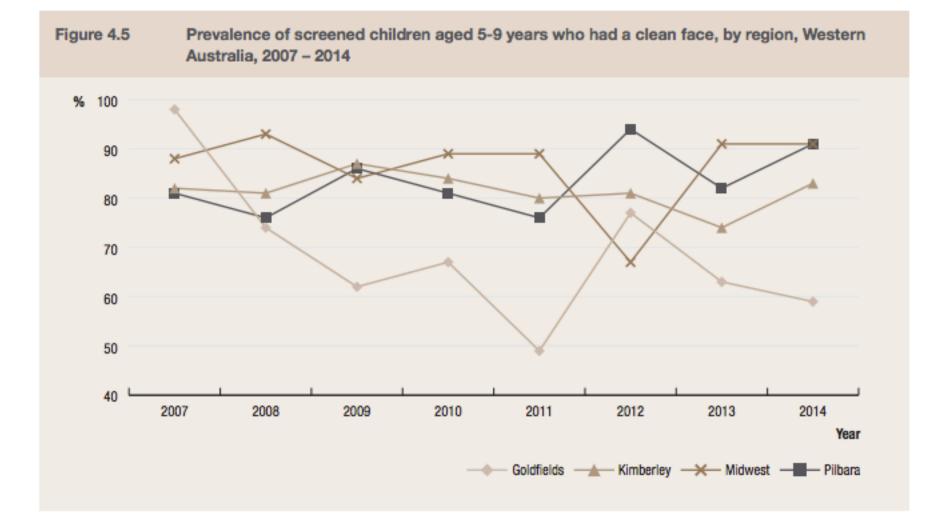
Data from Australian Trachoma Surveillance Report 2014 (and early data from 2015)



Trachoma prevalence among children aged 5-9 years by jurisdiction, Australia 2007 – 2015*



* Most recent estimates carried forward in communities that did not screen in 2015.



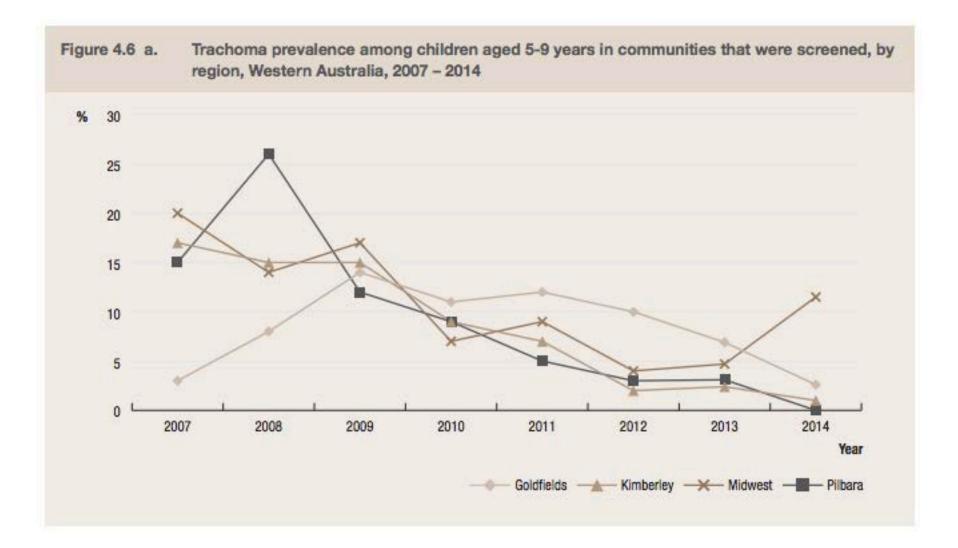
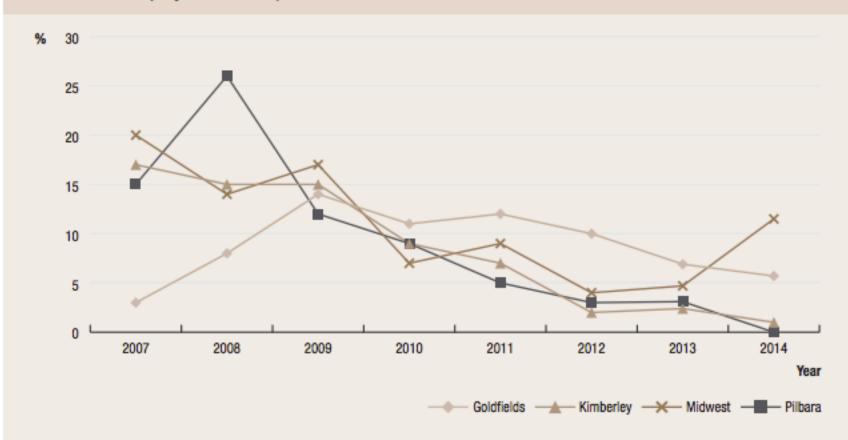


Figure 4.6 b. Trachoma prevalence among children aged 5-9 years, by region, Western Australia with projected values, 2007 – 2014



 Including communities that screened in 2014 and those that were not required to screen in 2014, in accordance with 2014 guideline instructions (see methodology)