



Australasian Bronchiolitis Improvement Research



Objectives?

- Outline the problem
- Describe the Australasian Bronchiolitis Clinical Practice guideline (The solution)
- Describe the implementation and assessment plan
- How did we go?

When should we develop guidance? **Bronchiolitis**

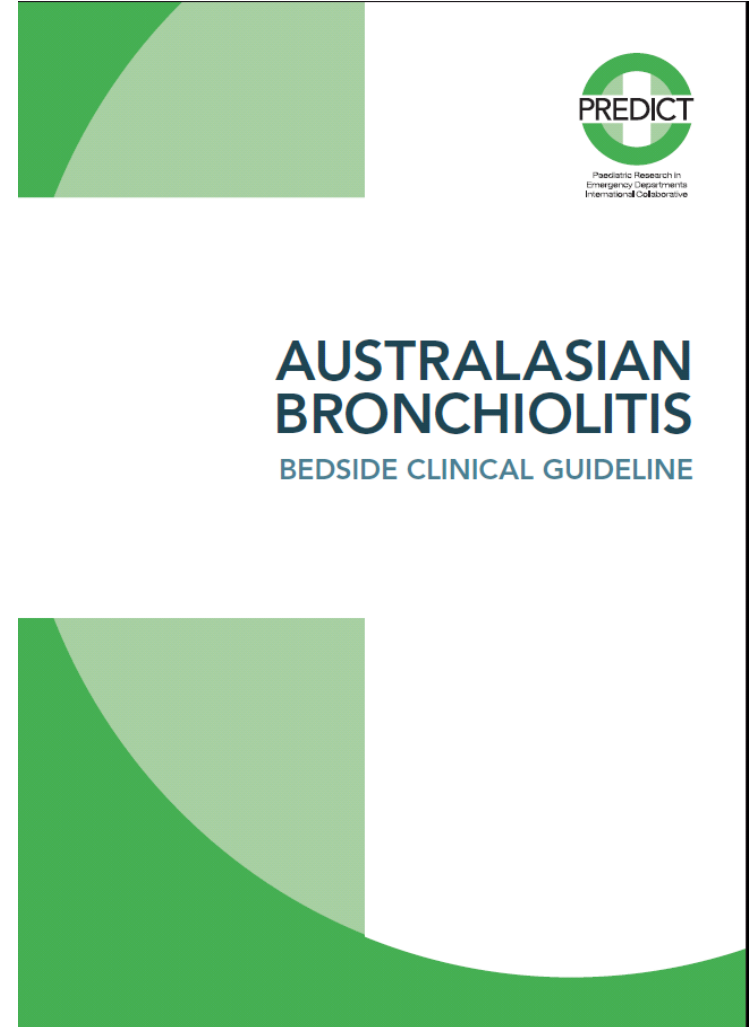
- Variation in practice ✓
- Uncertainty and debate about aspects of care ✓
- When there is a gap between best practice and current practice ✓
- When the gains are considered to be sufficient to justify the effort of developing a guideline ✓
- **>3,500 admissions to 7 sites – 28% to 47% use of treatments with high level evidence of no benefit** Oakley et al.

Australasian Bronchiolitis Guideline

- Evidence-based guideline for the management of infants (0-12 months) with bronchiolitis treated in EDs and wards
- Robust process to GRADE/NHMRC standard by large multi-disciplinary team
- >12,000 papers reviewed to answer 33 clinical questions and provide clinical recommendations
- Wide stakeholder engagement
- Endorsement by key Australasian Colleges (Medical and Nursing)
- **5 page bedside guide**
- >150 pages detailing evidence

Bedside version – short 5 pages

- Diagnosis
 - Risk factors for severe disease
 - Management
 - Discharge planning
 - Education
 - Hygiene control
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- Available at
www.predict.org.au/publications/2016-pubs/



Knowledge Translation (KT) Bronchiolitis Study

Aim is to **reduce** the use of 5 interventions/management strategies known to be of no benefit in infants less than 1 year with bronchiolitis:

CXR, salbutamol, antibiotics, adrenaline, steroid

- Cluster RCT of 26 Australasian Hospitals
 - ED and Inpatients
 - 6 New Zealand, 20 Australian
- Randomised to control / intervention arm
- Intervention receives tailored, theory informed KT strategies

Implementation

- Interviews to determine attitudes, enablers and barriers
- Developed implementation tools
 - Audits
 - Feedback
 - Education
 - Videos of how to talk to a family
 - Videos of bronchiolitis



OUTCOMES

	Intervention	Control	Risk Diff	95%CI
OVERALL	86%	72%	14%	7-22%
CXR	92	86	6	0-11
Salbutamol	95	85	9.5	6-13
Antibiotics	97	94		
Adrenaline	99	99		
Steroids	98	98		

What does this mean for bronchiolitis management?

