

# Presenting evidence

## Overview

- Demonstrate how we present evidence
- How we elicit clinical and lay member opinion of these findings

## **Overview**

In 'scoping a guideline' we demonstrated how interaction with GDG members at an early stage is important for instilling confidence and managing expectations.

## Overview

During the development stage, the reviewer will be in contact with GDG chair and some GDG members on several occasions for more specific information such as

- timelines
- clinical significance
- equivalence
- applicability
- transferability

## Overview

Once review is completed the full review, evidence table and excluded studies table are presented as follows;

- Sent to chair 3 weeks before GDG meeting
- Discussed with chair 2 weeks before GDG meeting
- Sent to GDG 1 week before GDG meeting
- Discussed at GDG meeting

## **Our expectations of the GDG**

With training and support, we expect the GDG to be able to interpret the evidence in light of their collective / individual clinical and lay experience

Evidence reigns but experience-based opinion can over-rule findings.

## **At the GDG meeting**

We present the evidence and review findings as the endpoint of the process

We typically present:

- The question as in scope
- The protocol agreed with GDG
- The GDG responses to our queries on the evidence with our feedback on implications
- The evidence and review findings



## At the meeting



GDG realise implications of previous decisions eg outcomes, clinical significance etc

To combat this, at the first meeting, we try to present a straightforward review eg review of intervention versus placebo



## Evidence table record

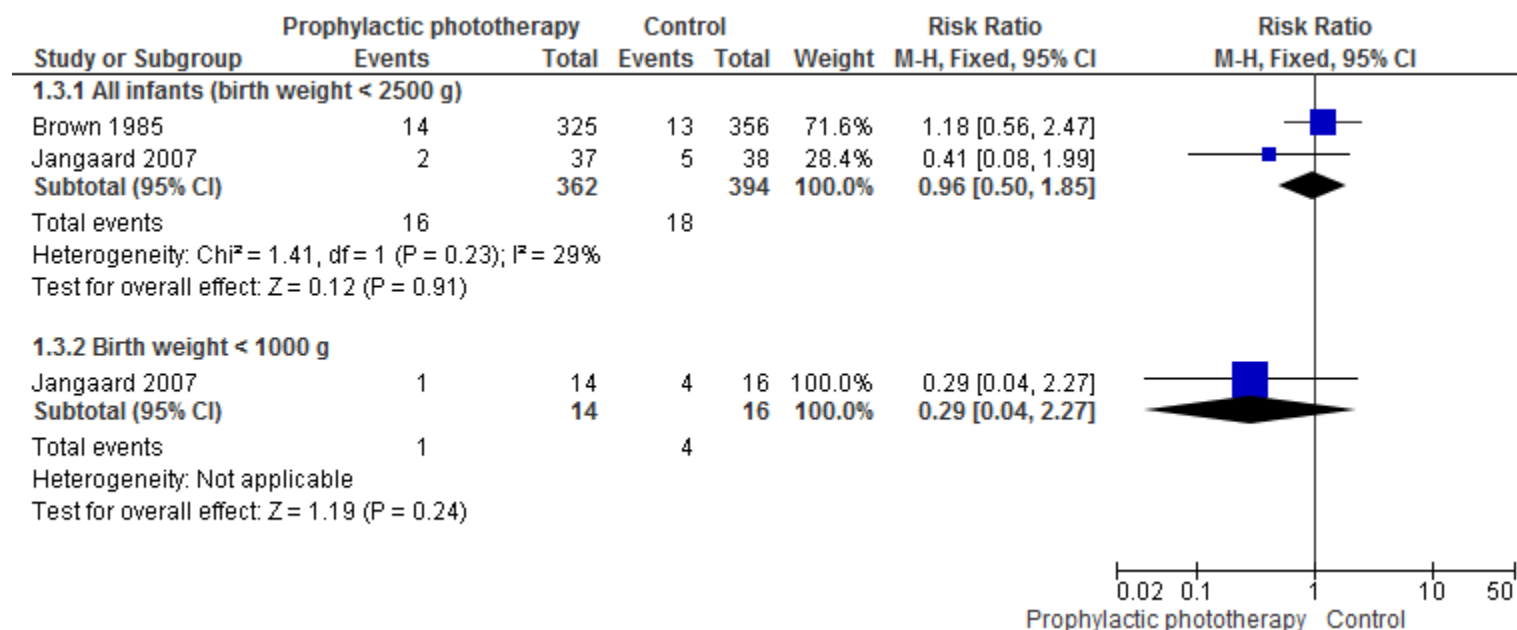
Bibliographic Information	Study Type & Evidence Level	Number of Patients/Characteristics	Intervention & Comparison	Dichotomous outcomes (E:C)	Continuous Outcomes (Mean:SD: N)
<p><u>Author:</u> Sisson T</p> <p><u>Year:</u> 1971</p> <p><u>Country:</u> USA</p> <p><u>ID:</u> 130</p>	<p><u>Methodology:</u> RCT</p> <p><u>Blinding:</u> Not reported</p> <p><u>Randomisation:</u> Coin toss</p> <p><u>Evidence level:</u> 1*</p>	<p><u>n:</u> 35</p> <p><u>Inclusion:</u> TSB &gt; 162 micromol/litre</p> <p><u>Exclusion:</u> Sepsis, Cephalhaematoma Massive ecchymosis</p> <p><u>Demographics:</u> Gender (M/F) :16/19 Mean GA: Not reported Mean BW: 2567 ± 709 gms Age at entry to study: Not reported Mean TSB: 193 micromol/litre</p>	<p><u>Group 1:</u> No treatment</p> <p><u>Group 2:</u> Conventional phototherapy</p> <p>Conventional Phototherapy consisted of 10 (20 watt) fluorescent lamps Units were 45 cm above the baby and had a Plexiglas shields to block ultraviolet radiation. Canopies were vented so lamp heat was dissipated</p> <p>Babies removed for no more than 20 minutes a time for feeding etc</p> <p>Babies were naked except for eye shields and diapers</p> <p>Light band = 410 – 490</p> <p>Phototherapy discontinued at TSB &lt; 145 micromol/litre</p>	<p><u>ET:</u> Group 1: 2/14 Group 2: 3/21</p> <p><u>Treatment failure:</u> Group 1: 9/16 Group 2: 2/19</p>	<p><u>TSB levels – change</u> Incomplete data</p> <p><u>Mean change in TSB:</u> Incomplete data</p> <p><u>Time to max TSB (hours):</u> Incomplete data</p>

## Excluded studies table

### Phototherapy

Reference	Reason for exclusion
Amato M, Howald H, and von MG. Interruption of breast-feeding versus phototherapy as treatment of hyperbilirubinemia in full-term infants. <i>Helvetica Paediatrica Acta</i> 1985; 40:(2-3)127-31.	Not all babies received phototherapy
Boo NY and Chew EL. A randomised control trial of clingfilm for prevention of hypothermia in term infants during phototherapy. <i>Singapore Medical Journal</i> 2006; 47:(9)757-62.	Intervention to prevent hypothermia
Boo NY, Chee SC, and Rohana J. Randomized controlled study of the effects of different durations of light exposure on weight gain by preterm infants in a neonatal intensive care unit. <i>Acta Paediatrica</i> 2002; 91:(6)674-9.	No jaundice-related outcomes
Brown AK, Kim MH, Wu PY et al. Efficacy of phototherapy in prevention and management of neonatal hyperbilirubinemia. <i>Pediatrics</i> 1985; 75:(2 Pt 2)393-400.	Secondary publication of NICHHD study
Bryla DA. Randomized, controlled trial of phototherapy for neonatal hyperbilirubinemia. Development, design, and sample composition. <i>Pediatrics</i> 1985; 75:(2 Pt 2)387-92.	Secondary publication of NICHHD study
Costarino AT, Ennever JF, Baumgart S et al. Bilirubin photoisomerization in premature neonates under low- and high-dose phototherapy. <i>Pediatrics</i> 1985; 75:(3)519-22.	Not an RCT
Costarino AT, Jr., Ennever JF, Baumgart S et al. Effect of spectral distribution on isomerization of bilirubin in vivo. <i>Journal of Pediatrics</i> 1985; 107:(1)125-8.	Not an RCT
Donzelli GP, Moroni M, Pratesi S et al. Fiberoptic phototherapy in the management of jaundice in low birthweight neonates. <i>Acta Paediatrica</i> 1996; 85:(3)366-70.	Not an RCT
Eggert LD, Pollary RA, Folland DS et al. Home phototherapy treatment of neonatal jaundice. <i>Pediatrics</i> 1985; 76:(4)579-84.	Home phototherapy not relevant to this guideline
Elliott E Moncrieff MW and George WH. Phototherapy for hyperbilirubinaemia in low birthweight infants. <i>Archives of Disease in</i>	Not an RCT

## Forest plots



## GRADE profile

Quality assessment							No of patients		Effect		Quality
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic phototherapy versus control	Control	Relative (95% CI)	Absolute	
<b>Cerebral palsy - All infants (birth weight &lt; 2500 g)</b>											
2	randomised trials	no serious risk of bias <sup>1</sup>	no serious inconsistency <sup>2</sup>	no serious indirectness <sup>3</sup>	Serious <sup>4</sup>	none	16/362 (4.4%)	18/394 (4.6%)	RR 0.96 (0.5 to 1.85)	2 fewer per 1000 (from 23 fewer to 39 more)	MODERATE
<b>Cerebral palsy - Birth weight &lt; 1000 g</b>											
1	randomised trials	no serious risk of bias <sup>1</sup>	no serious inconsistency <sup>5</sup>	no serious indirectness <sup>3</sup>	Serious <sup>4</sup>	none	1/14 (7.1%)	4/16 (25%)	RR 0.29 (0.04 to 2.27)	178 fewer per 1000 (from 240 fewer to 317 more)	MODERATE

## **Evidence summary**

Text specified in template and subdivided into following sections

- Review question
- Review introduction
- Description of included studies
- Evidence profile
- Evidence statements
- Health economics profile
- Evidence to recommendations

## **Role-play**

- ❖ Think about what questions you would ask
- ❖ What other information would you like to have
- ❖ For you, what outcomes evidence would have most influence on recommendations.

## **Feedback**

What did you think of the evidence in its entirety?

Do you think we should recommend prophylactic phototherapy?

What influenced your decision?.

## “Take home points”

### Presenting evidence

- Is hard to pitch right
- can raise more questions than it answers
- begin simple and revisit whole process from scope to findings





## Your thoughts

- 
- 
- 
- 
- 
- 
-