

Educational Intervention on Pediatric Concussions for Providers

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Population and Problem

- 3.8 million recreational and sports related concussions occur annually in children.
- Estimated to cost 17 million dollars annually
- Studies have shown that children who are seen in a specialty clinic have an overall faster recovery of post-concussive symptoms.

(Halstead, 2016)

Significance of the problem

- Data exists
- Non-compliance with return to play guidelines
- Underdiagnosis and underreported

(Halstead et al., 2010, 2016)

Purpose of Project

Use existing data to educate healthcare providers



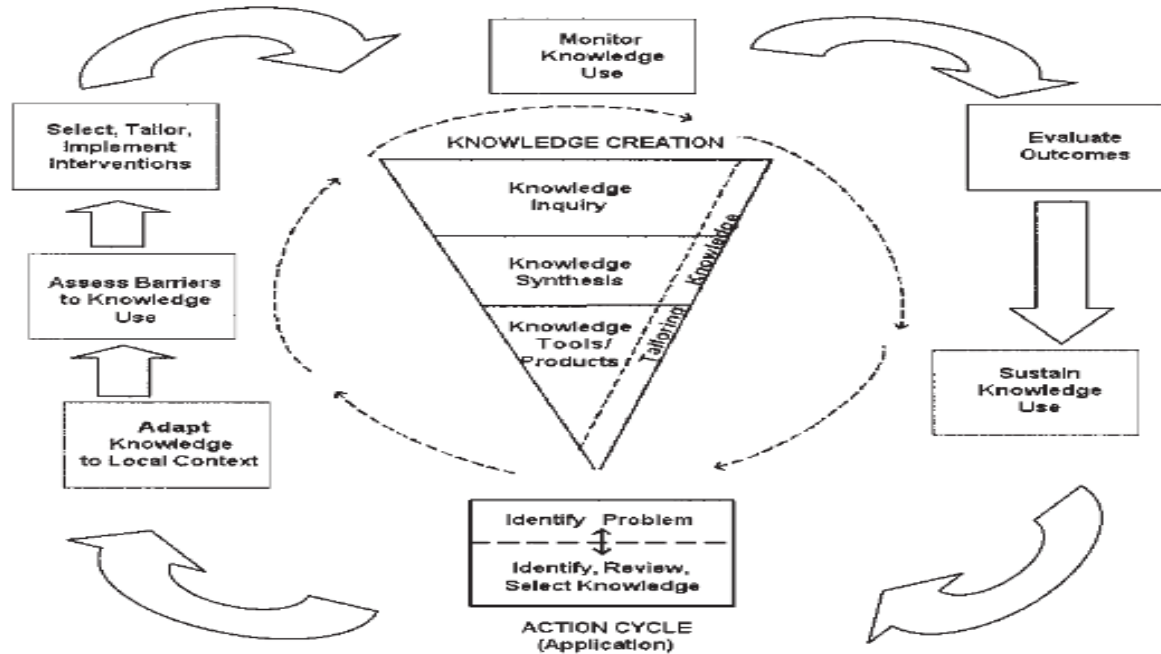
Improve rates of appropriate diagnosis



Improved outcomes in children that have suffered a concussion

Theoretical Framework

Lost in Knowledge Translation



(Graham, et al., 2006).

Figure 1 Knowledge to action process

PICO Question

In providers who care for children experiencing a concussion, how does an educational program on post-concussion care, as compared to no intervention, affect providers' knowledge?

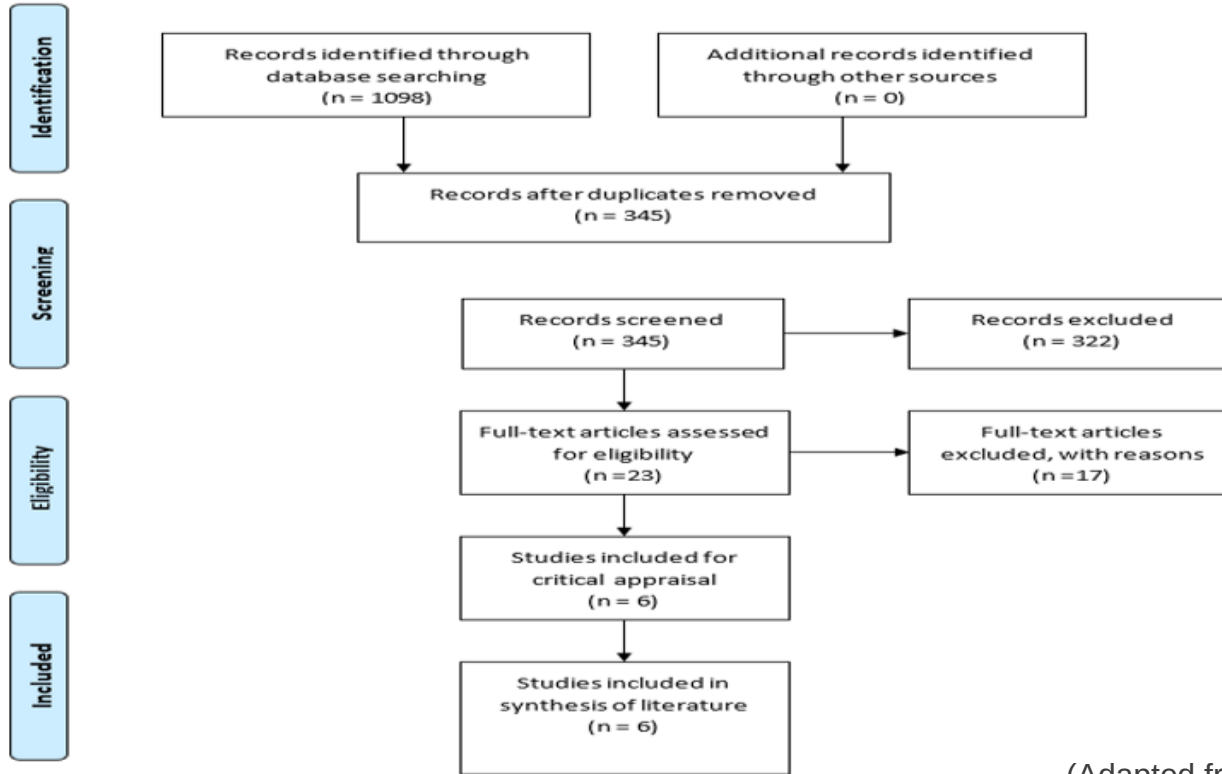
Supportive Evidence



SEARCH STRATEGIES



CRITICAL APPRAISAL- METHODS,
TOOLS, LEVELING AND QUALITY
GRADE



(Adapted from: Moher et al., 2009)

Synthesis Table- Interventions and Outcomes

Interventions and outcomes	<u>Calahan</u> et al.	<u>Kontos</u> et al.	<u>Peitz</u> et al.	Stead et al.	Waltzman et al.
Concussion education	+		+	+	+
Concussion rates				+	
Recovery of post-concussion symptoms		+		-	

Note. + =Improved outcomes, - = decreased rates

Patient and Family Preferences



Recommendation for Practice Based on Evidence

1. Concussion education of providers continues to be a priority.

2. An emphasis should be made among initial assessors of concussions that rapid clinical follow-up is necessary.

Methodology

- Setting
- Barriers and facilitators
- Stakeholders
- Tools
- Intervention Implementation

Outcome measures

- Specific Outcomes measured
- Difference made in improving health, costs patient, family or community outcomes
- Data Collection and Security- collection procedure

Analysis of data

- Statistical tests
- Statistical platform

Significance and Implications

- Benefit to providers, patients, families and community
- Cost effectiveness
- Plan for sustainability

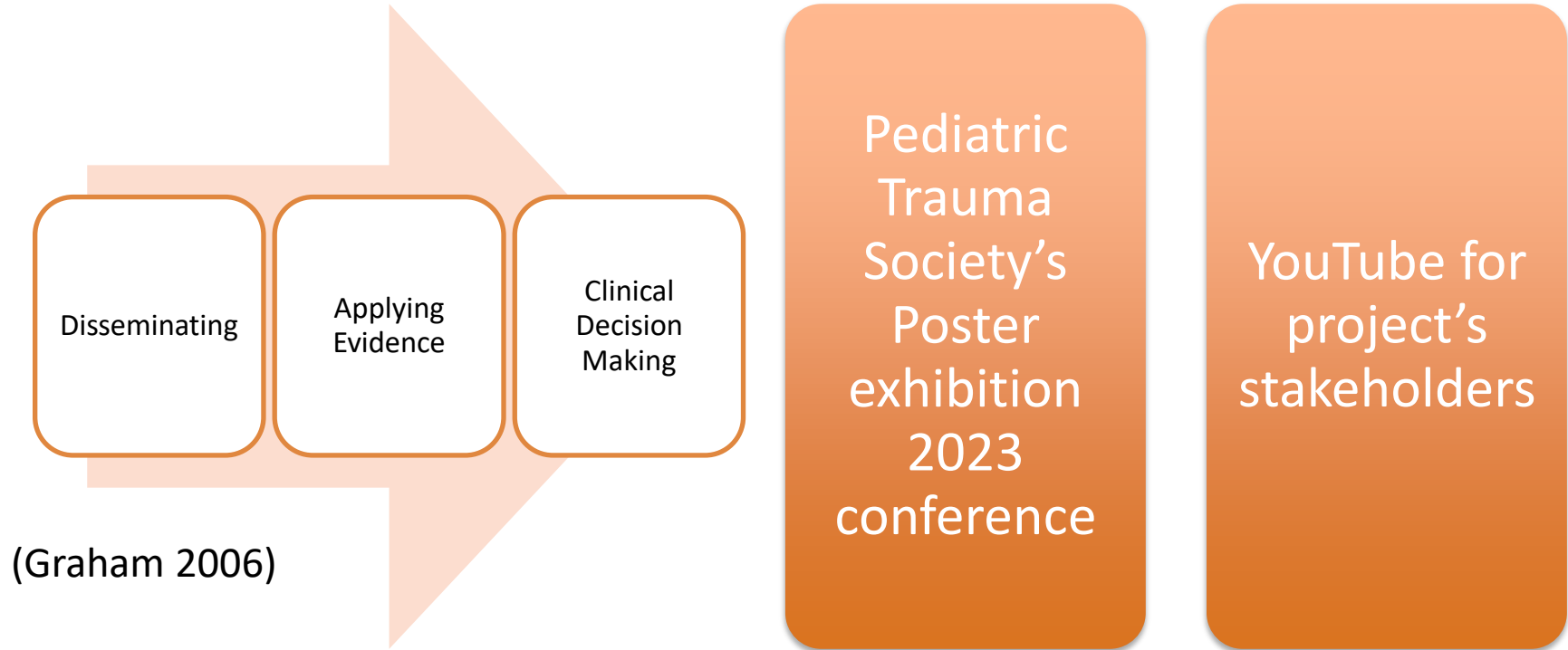
Findings

- Two- fold increase in knowledge post-education
- 7 participants
 - Two NPs
 - Two PAs
 - 3 Physicians

Implications for practice



Dissemination plan





Questions?



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