



Project Transform

Living systematic reviews

Special Session at Global Evidence Summit:
From living systematic reviews to living recommendations
13 September 2017

Anneliese Synnot
Cochrane Australia, Monash University

Trusted evidence.
Informed decisions.
Better health.





Project Transform

Disclosure & acknowledgements

- I have no actual or potential conflict of interest in relation to this presentation.
- Tari Turner and Julian Elliott, Cochrane Australia, Monash University
- The Living Systematic Review Network



What is a living systematic review?

We define an LSR as a systematic review that is continually updated, incorporating relevant new evidence as it becomes available. In practice, this means continual surveillance for new research evidence through ongoing or frequent searches and the inclusion of relevant new information into the review in a timely manner so that the findings of the systematic review remain current.



Project Transform

Cochrane's first LSR pilots



**Cochrane
Library**

Cochrane Database of Systematic Reviews



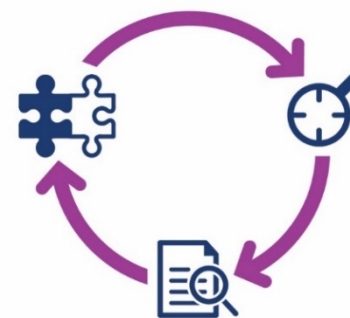
Parenteral anticoagulation in ambulatory patients with cancer (Review)

Akl EA, Kahale LA, Hakoum MB, Matar CF, Sperati F, Barba M, Yosucio VED, Terrenato I, Synnot A, Schünemann H

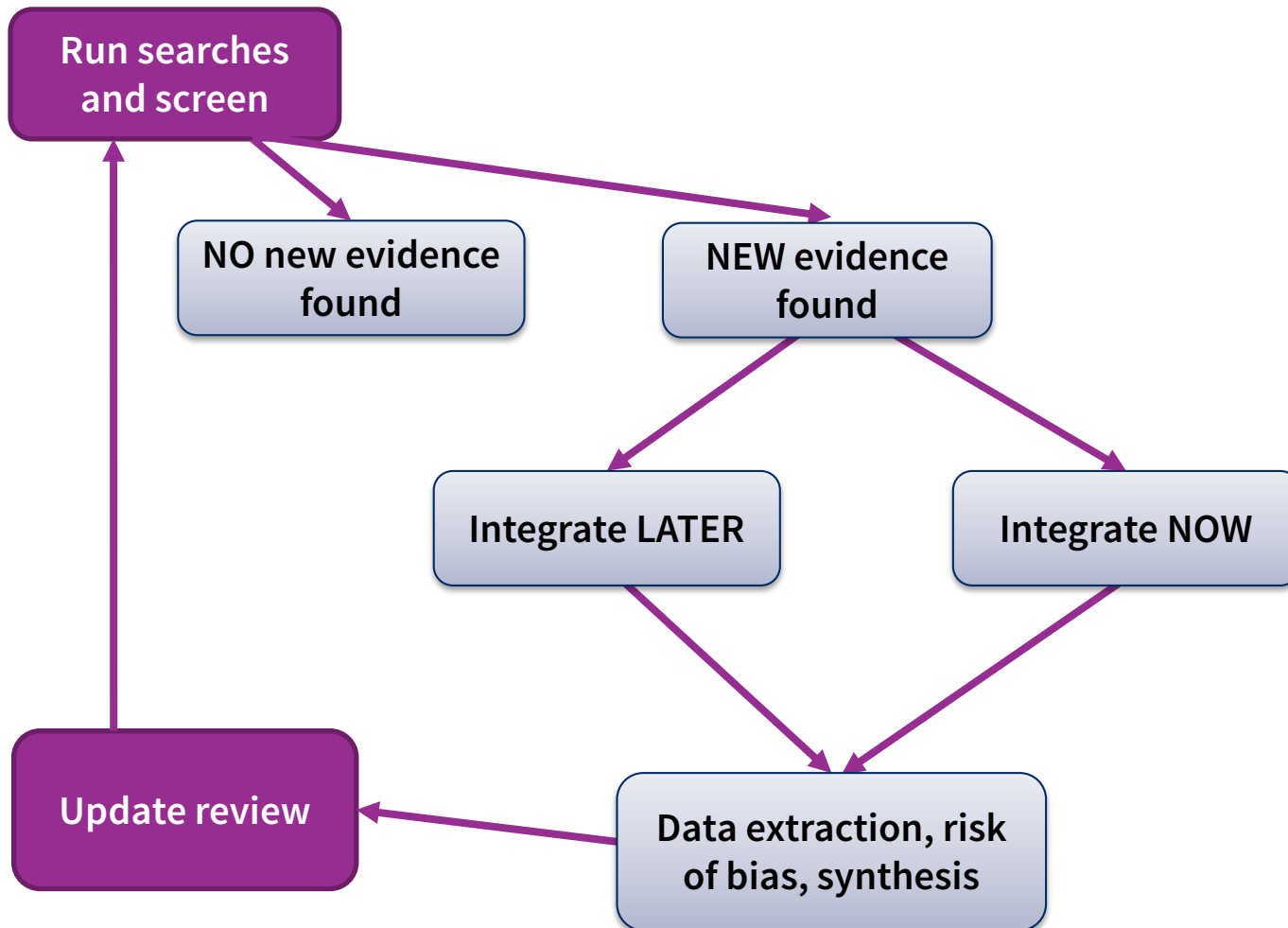
Editorial note: This is a living systematic review. Living systematic reviews offer a new approach to review updating in which the review is continually updated, incorporating relevant new evidence, as it becomes available. Please refer to the Cochrane Database of Systematic Reviews for the current status of this review.

Features of Cochrane LSR approach

- Applies to any review type (e.g. RCTs, qualitative)
- Retains core systematic review methods
- LSR-specific methods pre-specified in protocol
- Explicit and a priori commitment to frequent search and updating
- Starts with a standard ‘baseline’ review
- Searches = monthly
- Tell reader ‘what’s happening’ = monthly
- Re-publish the review = informed by the evidence



Basic LSR process

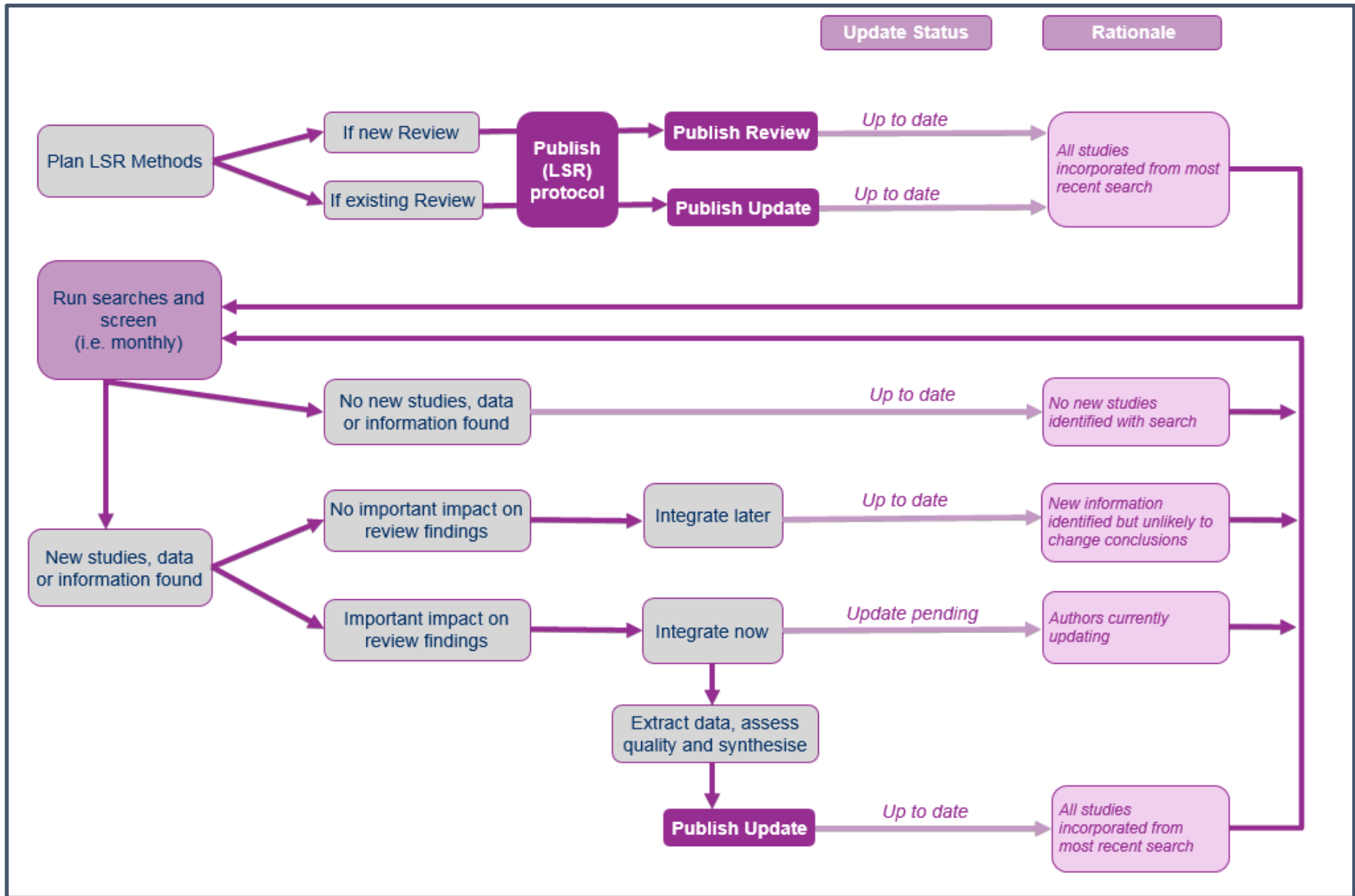




LSR specific-methods

- Searching
 - Specify frequency of all sources (databases, trial registers and other sources)
- Screening
 - Should match search frequency, may use ‘enablers’ (machine, Crowd)
- Data synthesis
 - Incorporate new evidence immediately OR use decision rules to decide if can be delayed
 - *May* need to adjust meta-analysis for Type I error
- Other
 - Methods and searches reviewed over time







Cochrane's LSR pilots

Review title	Authors	CRG	Publicat'n
★ Parenteral anticoagulation in ambulatory patients with cancer	Elie Akl, Lara Kahale (Lebanon)	GNOC	Sept 2017
★ Delayed antibiotics in respiratory infections	Geoffrey Spurling (Australia)	ARI	Sept 2017
★ Interventions to increase fruit and vegetable consumption in children under 5 years	Rebecca Hodder, Luke Wolfenden (Australia)	Heart	Sept-Oct 2017
Conservative treatments for osteoarthritis (2 x reviews)	Rachelle Buchbinder, Renea Johnston (Australia)	Musc.	2018



Cochrane

Project Transform

Questions / comments?

**www: cochrane.org/lsr
e: lsr@cochrane.org**

