



Cochrane

Project Transform

Update on LSR activities

LSR Network meeting
Global Evidence Summit, Cape Town
12 September 2017

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**Trusted evidence.
Informed decisions.
Better health.**





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Disclosure

- I have no actual or potential conflict of interest in relation to this presentation.





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Update on LSR activities

- LSR Network
- Pre-pilot activities
- Canadian LSR workshop
- J Clin Epi paper series
- Progress on frequent meta-analysis issue
- LSR pilot progress
- Evaluation of pilots





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The LSR Network

- 160+ members
- Researchers, HTA orgs, professional medical associations, guideline developers
- Cochrane and non-Cochrane
- Open invitation via LSR page since June 2017 (\approx 2-3 requests to join per week)
- Interest groups – ready to connect via listservs
- Considerable expertise and interest within the Network





Pre-pilot activities

- Finalised LSR guidance document in April 2017
 - Production and publication model
 - LSR protocol template
 - Next document update: post-GES
- Finalised editorial content of LSR pilots in Aug 2017
 - Editorial note for Abstract and PLS
 - Standardised wording for UCS
- Promotion of LSR webpage (Cochrane.org/lsr) and the upcoming pilots in June 2017





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Canadian LSR workshop

- 13 & 14 May 2017
- Core group \approx 20 people both days
- Aims:
 - General introduction (D1)
 - Further thinking, methods, research agenda (D2)
- Draft workshop report circulated
- Series of new paper ideas discussed/in train
 - Searching; Coproduction; Health policy implications; Publication; Research agenda





Canadian LSR workshop report

- LSR definition revision and minimum criteria?
- Do we understand user's perspectives on LSRs value proposition?
- Searching: more open Qs than we originally thought
- What do we want the relationship between tech, Crowd and reviewers to be? Need for an evaluation framework to explore this
- Adjusting MA: Open question but has practical implications





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Canadian LSR workshop report

- Distinction between living guideline and living recommendation
- LSRs invite closer collaboration between SR producers and guideline developers, policymakers and consumers
- What is the LSR message we want to sell? And how do we do this to secure ongoing funding?
- Evaluating processes and impacts (many ideas of possible metrics)
- Research agenda in LSRs





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J Clin Epi paper series

- Publication this week!
- Paper 1: Introduction - The Why, What, When and How
- Paper 2: Combining Human and Machine Effort
- Paper 3: Statistical Methods for Updating Meta-Analyses
- Paper 4: Living Guideline Recommendations





Updating meta-analysis

- Cochrane LSR pilots *not* adjusting meta-analyses
 - Impact of adjusting/not adjusting can be explored separately (i.e. outside of the reviews)
- Empirical work ongoing
- Next steps: 2-day meeting of statisticians in November (Bristol)
- Then to be considered at Cochrane Scientific Board





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Cochrane 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, Yosuiico VED, Terrenato I, Synnot A, Schünemann H

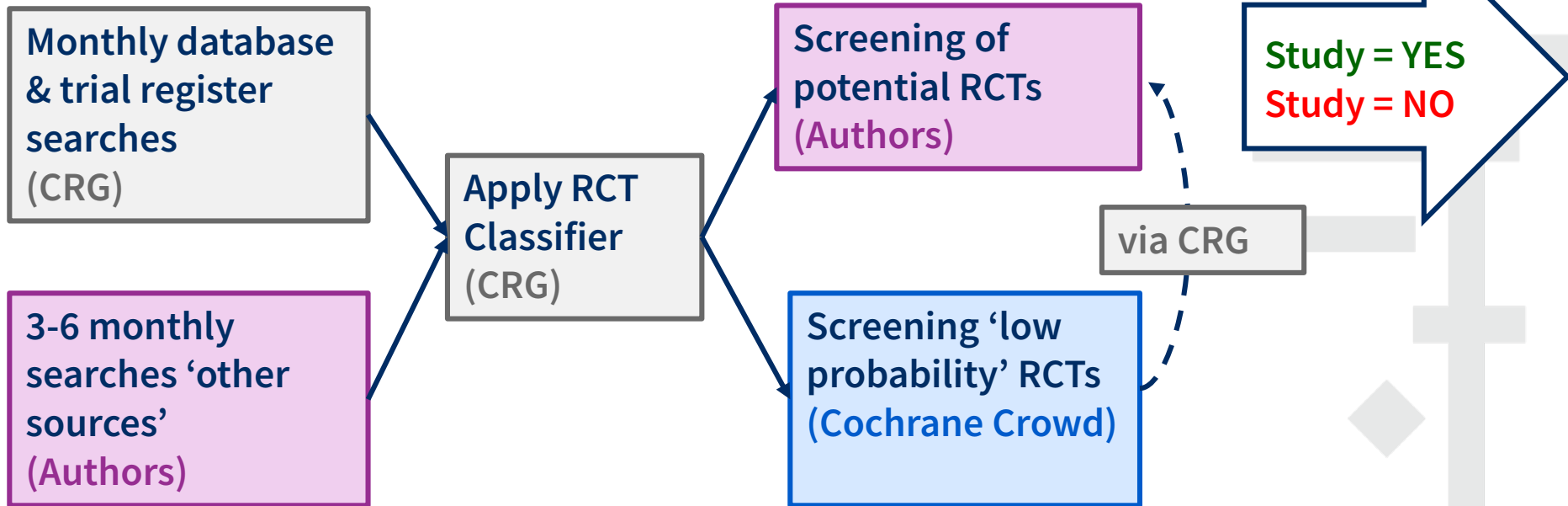
Editorial note: This is a living systematic review. Living systematic reviews offer a new approach to review updating in which the review is continually updated, incorporating relevant new evidence as it becomes available. Please refer to the Cochrane Database of Systematic Reviews for the current status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



Cochrane LSR pilots

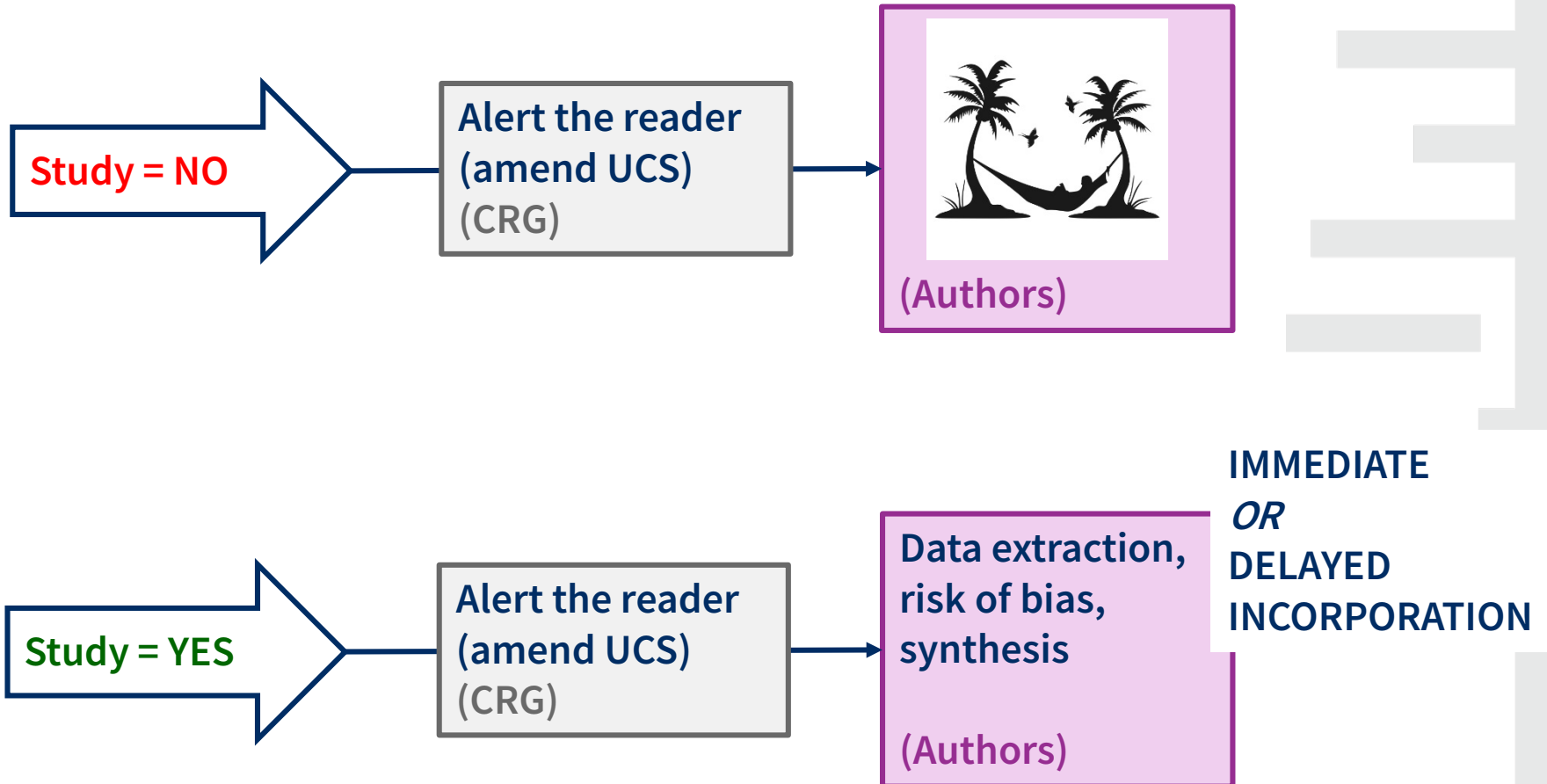
Review title	Authors	CRG	Publicat'n
★ Parenteral anticoagulation in ambulatory patients with cancer	Elie Akl, Lara Kahale (Lebanon)	GNOC	Sept 2017
★ Delayed antibiotics in respiratory infections	Geoffrey Spurling (Australia)	ARI	Sept 2017
★ Interventions to increase fruit and vegetable consumption in 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

LSR production model



← One month →

LSR production model (cont.)

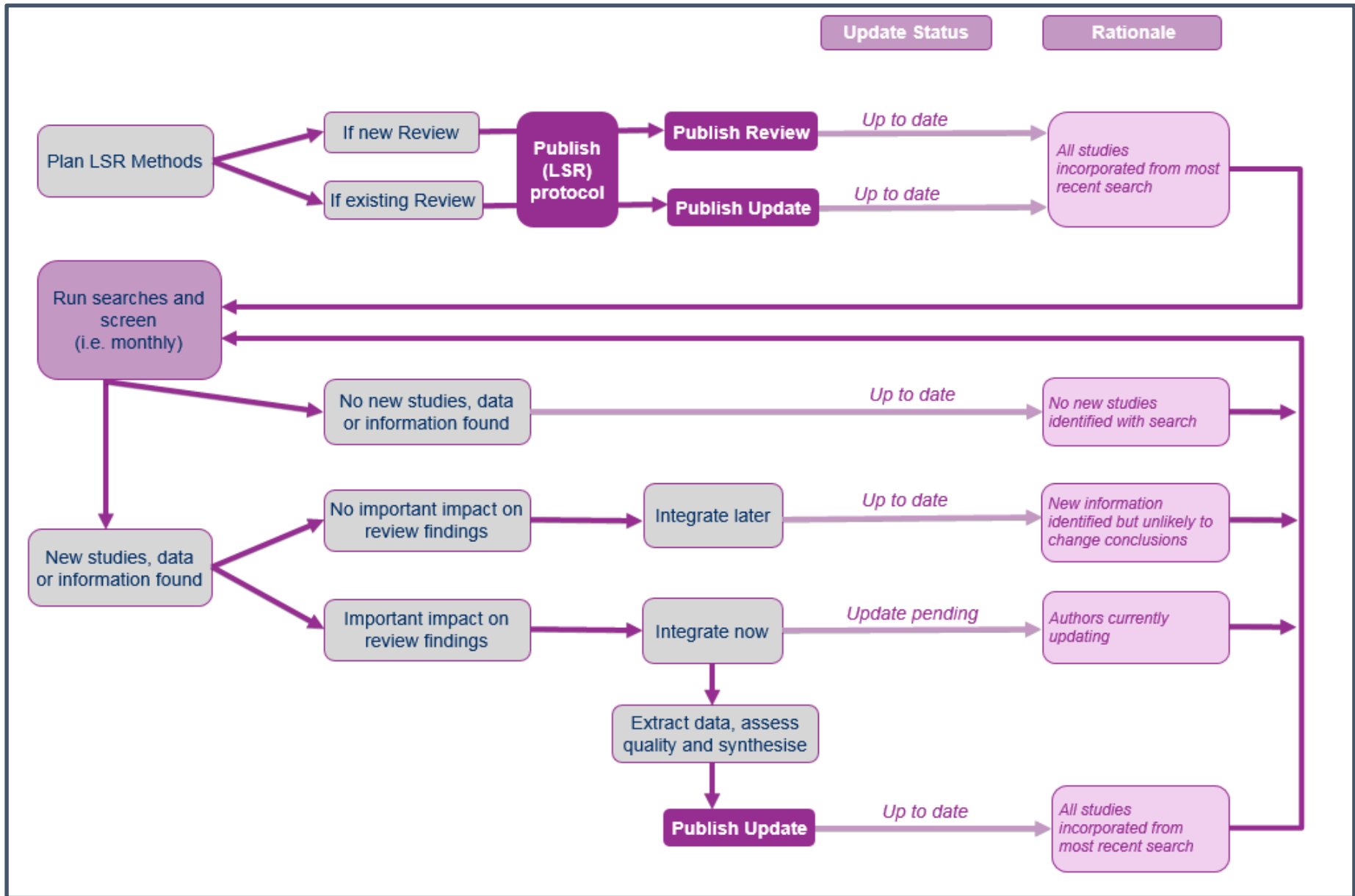




LSR publication model

- Starts with a ‘baseline’ review published on CL (includes prospective LSR methods)
- Cochrane publishing model, splits
 - ‘What’s happening’ (monthly progress updates)
 - ‘What’s New’ (publishing review update)
- Publishing updates (i.e. re-publication of review)
 - New evidence ► Publish update (immediate or delayed)
 - No new evidence ► no change to review







Example monthly update

Status	Up to date
Rationale	New information identified but unlikely to change conclusions
Explanation	This is a Living Systematic Review. Searches are run and screened monthly. Last search date XX. A new stud(ies) [hyperlink to Dols] has(ve) been identified in a recent search but the new information is unlikely to change the review findings (as assessed by the authors and editorial team). The conclusions of this Cochrane Review are therefore considered up to date.



Evaluation of pilots

- Aims
 - Explore feasibility, and implications for contributors, processes and workflows
 - Identify opportunities to improve the LSR model(s)
- Participants (Cochrane *and* non-Cochrane)
 - Author teams
 - Editorial staff (ME, IS, CEU *or* journal/publisher)
 - Peer reviewers (if involved in rapid updates)





Evaluation of pilots

- Monthly online surveys
 - Activities/workload: i.e. number of citations screened, time spent on LSR tasks
 - Reflections: e.g. what's working well, challenges, enablers
- 1-3 brief interviews over course of pilot
- Evaluation lead: Dr Tanya Millard (new to LSR team)
- Timeframes
 - Start: from \approx publication of 'baseline' review
 - End: At LSR *or* Project Transform end (Oct 2018)





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Questions / comments?

Or email: Anneliese.Synnot@monash.edu





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LSR definition

‘Systematic reviews which are 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.’

Elliott 2017 J Clin Epi





Proposed LSR ‘minimum criteria’

- How frequent should updates be? Under what conditions?
- Conclusions are ‘current’ or ‘up to date’ but should be informed by user needs
- Continual evidence surveillance (‘full’ searches)
- Searching is ‘proactive’, but trigger for adding new evidence at least when it affects ‘certainty’
- Explicit commitment to maintain the LSR over time
- A priori specified methods for the living approach
- Retains core SRs methods (retains ‘validity’)





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Dissemination of LSRs

