

# **Applying the Updating Classification System**

Harriet MacLehose and Sally Bell-Syer Cochrane Editorial Unit 14 September 2016

Trusted evidence. Informed decisions.

Better health.



How many new reviews and updates were published in 2015?

How many of the 447 updates changed conclusions?

# () Cochrane

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"A search of MEDLINE and PubMed in November 2015 found only **1 RCT study,** and a search by the lead author of [review] yielded 3 potential studies, but he does not think the inclusion of these new findings could substantially change the conclusions made in 2013. An update has not been considered necessary for two successive years. Our Trials Search Co-ordinator [Information Specialist] will run a new search in 2016 to re-assess whether an update is needed."

"This review **is not appropriate for update** since [intervention] is now routinely combined with [intervention] and there have been no further studies using [intervention]."

"This review **will no longer be regularly updated**. Searches will still be undertaken on a two-yearly basis by the [Group]. If, in future, relevant trials are identified, the review will be updated again."



In first 3 months of 2015, about 40 reviews were withdrawn.

How many were withdrawn because

authors updating?

In first 3 months of 2015, about 40 reviews were withdrawn.

How many were withdrawn because the

review was superseded?



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authors updating?

2

e.g. "This review is not up to date. It is currently being updated and will be republished when the update is completed."

In first 3 months of 2015, about 40 reviews were withdrawn.

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In first 3 months of 2015, about 40 reviews were withdrawn.

How many were withdrawn because the

review was superseded?

23

e.g. "The review was withdrawn, as of Issue 1, 2015, because it has been superseded by a new Cochrane review: [citation]."

# Aims



#### **Aims**

- Brief background Updating Classification System for Cochrane Reviews
- Apply an Update Status to a Cochrane Review using example reviews
- Apply the Update Status to a Cochrane Review in Archie
- Learn how the Update Status will appear alongside a published Cochrane Review

# **About the Updating Classification System**



# A little bit of background – and acknowledgements!





#### La Bibliothèque Cochrane: révolution ou évolution?

Le façonnement de l'avenir du contenu Cochrane

#### The Cochrane Library: revolution or evolution?

Shaping the future of Cochrane content

Background paper for The Cochrane Collaboration's Strategic Session Paris, France, 18 April 2012



37. Classify Cochrane Reviews of interventions using the classification framework, at least every two years. The framework, to be published on the Cochrane Database of Systematic Reviews, highlights to readers whether a Cochrane Review addresses a historical or current question, and also indicates whether the Cochrane Review is considered up to date, has an update is pending, or is not intended to be updated.



Cochrane Content



Cochrane Content
Publication &
Development
Programme (CCPDP)

2011

April 2012

September 2012 & beyond





#### Updating Cochrane Reviews Workshop Programme and Information for Speakers and Participants 26th and 27th June 2014

Health Forum, 4th Floor, Mill's Library, McMaster University, Hamilton, Ontario, Canada



Time	Session title	Speaker, facilitator	Session structure	Objective and output	
DAY 2	WHAT TO DO NOW, AND WHAT IS THE RESEARCH AGENDA?				
9.00	Recap from previous day	Sally Hopewell	Presentation		
	Session 5: Managing updates: Policy and Implementation	Chair: Jackie Ch	nandler		
9.10	P15:Updating Classification System	Paul Garner	Presentation	Ob. 1	
9.25	P16: Creating a toolkit of approaches for prioritisation of updates and authorship of updates	Rachel Marshall Harriet MacLehose Rachel Churchill and Emma Welsh	Presentation	Ob. 1 & 2	
9.55	Discussion	All			
10.05	COFFEE				

The Updating Classification System and contents of the EPPR guide are based on the decision flowchart to assess systematic reviews for updating included in the following publication:

Garner Paul, Hopewell Sally, Chandler Jackie, MacLehose Harriet, Akl Elie A, Beyene Joseph et al. When and how to update systematic reviews: consensus and checklist *BMJ* 2016; 354:i3507



- Updating classification system workshop: Vienna Colloquium, 2015: workshop with a focus on user testing: system, Archie interface, and published review interface
- Prepare for release and publication: working with CEU and IKMD teams, and Wiley

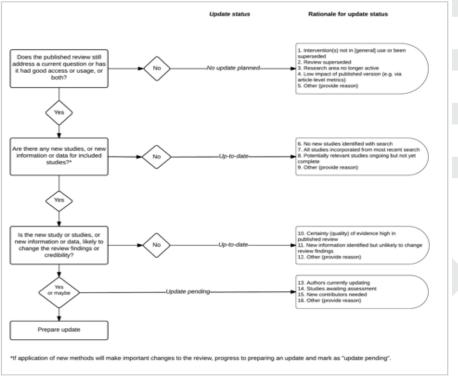


Relevance (select one)	Status (select one)	Explanation (select one or more)	Published comment (longer; suggested standard sente	nces for CRGs, but not limited to these options).	
Historical	No update intended	Intervention superseded	As of [Date], this Cochrane Review is no longer being updated. The editorial team believes that the question addressed by this Cochrane Review no longer relevant to decision making, as [Intervention] has been replaced by [Newer intervention] and is no longer used. See our Cochrane Review on [Newer interventions for Health Problem] for details about the [Newer intervention]. [Ink to newer Cochrane Review]		
		Intervention withdrawn or no longer available	As of [Date], this Cochrane Review is no longer being updated. The editorial team believes that the question addressed by this Cochrane Review no longer relevant to decision making, as [Intervention] has been withdrawn from the market worldwide. [Intervention] has been withdrawn because [Reason for withdrawal].		
		Intervention causes severe adverse effects	As of [Date], this Cochrane Review is no longer being up by this Cochrane Review no longer relevant to decisio no longer used. Further research is very unlikely to ch	Decision-making flowchart to assess systhese decisions	
		Further research unlikely to change conclusions	As of [Date], this Cochrane Review is no longer being by this Cochrane Review no longer relevant to decisio not effective meaning further research is unlikely to c is no longer used.	tnese decisions	
Current	No update intended	Intervention superseded	As of [Date], this Cochrane Review is no longer being Review(s). [link(s) to newer Cochrane Review(s)]		
		Further research unlikely to change conclusions	As of [Date], this Cochrane Review is no longer being [effective/not effective], meaning further research is	Does the published review still address a current question or has it had good access or usage, or	
		Research area no longer active	As of [Date], this Cochrane Review is no longer being topic in the past ten years. [Optional: Further researd confidence in the effect/etc.].	both?	
	Update required	New relevant studies identified	A [scoping] search was performed on [Date], which id have been added to the references in the section 'aw Cochrane Review.	Yes	
		New relevant studies identified for comparison [intervention X] v [intervention Y]; comparison [intervention Y] v [intervention Z] no longer being updated	Comparison [intervention X] v [intervention Y]: A [sco potentially relevant new studies. These studies have i classification, but have not yet been incorporated int Comparison [intervention Y] v [intervention Z]: As of I updated, as there is high-quality evidence that [Interventike] to change our confidence in the estimate of a	Are there any new studies, or new information or data for included studies?*	

2012

Changes to system
Archie interface
Presentation in the CDSR,
Cochrane Library

#### Decision-making flowchart to assess systematic reviews for updating, with standard terms to report these decisions



# ( Cochrane What is the Updating Classification System?

- Updating Classification System (UCS) guides readers as to whether a Cochrane Review (not protocols) is:
  - up to date
  - likely to be updated in future
  - does not need updating at the current time
- Help Cochrane Review Groups (CRGs) with prioritisation decisions for individual Cochrane Reviews
- Follows a decision-making flowchart
- Available for Intervention and Diagnostic Test Accuracy (DTA) reviews (not protocols)



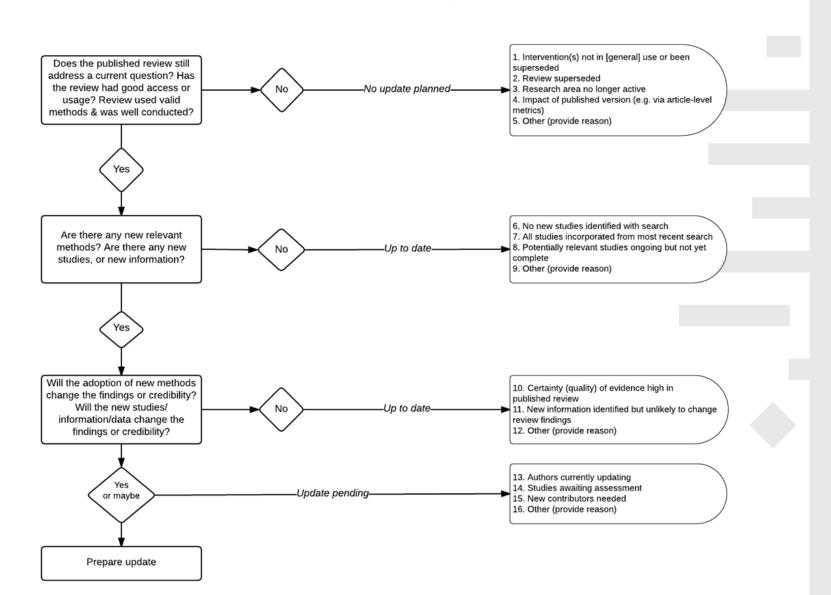
# Let's look at the system



#### **Decision-making flowchart**

#### Update status

#### Rationale for update status

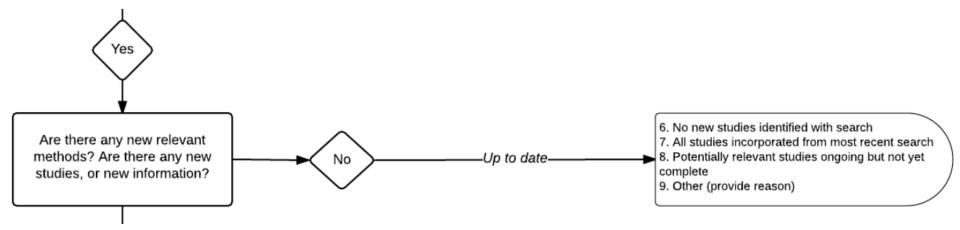






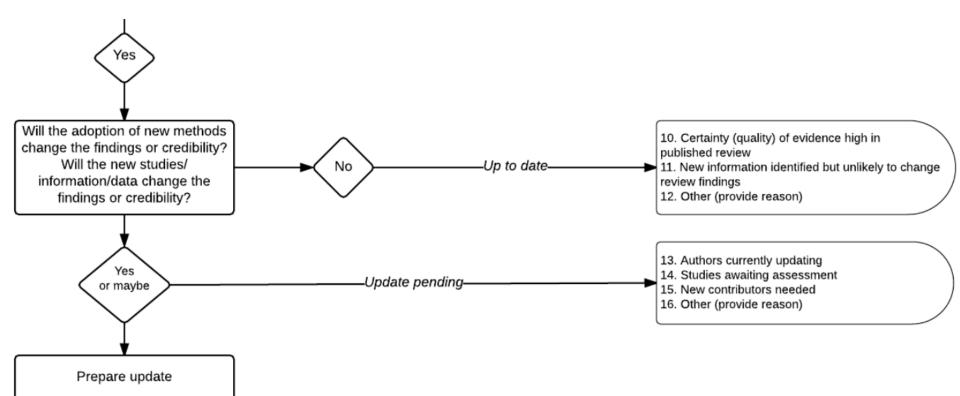
- Editor or author knowledge
- Access or usage: article-level metrics (eg downloads, Altmetric, guidelines, citations)





- New methods since previous update (e.g. risk of bias, summary of findings table)
- New studies: search for studies (full search or scoping search)
- New info or data (e.g. review authors contacting study authors)

# ( ) Cochrane



- Informal approach (e.g. editor or authors make assessment)
- Incorporating sample data
- Formal prediction tools



#### Sample editable texts for the 'Explanation'

	Reviews of Intervention	s	Reviews of diagnostic test accuracy		
Update status	Rationale	Explanation: free-text box with proposed sample text	Rationale	Explanation: free-text box with proposed sample text	
No update planned	Intervention(s) not in [general] use or been superseded	If Intervention superseded: The [Intervention] has been replaced by [Newer intervention] and is no longer used [in general]. See [link to another Cochrane Review] for the [Newer intervention].	Index test(s) or reference standard not in general use or been superseded	If test or reference standard superseded: The [test(s) or reference standard] has been replaced by [insert] and is no longer used [in general]. See [link to another Cochrane Review] for the [Newer test].	
		If Intervention withdrawn or no longer available: The [Intervention] has been withdrawn from the market worldwide because [reason for withdrawal (e.g. causes serious adverse effects)].		If test or reference standard withdrawn or no longer available: The [test(s) or reference standard] has been withdrawn from the market worldwide because [reason for withdrawal (e.g. causes serious adverse effects)].	
	2. Review superseded	This Cochrane Review has been superseded because [it has been merged together with another review/split into two or more reviews]. See [insert link to review].	2. Review superseded	This Cochrane Review has been superseded because [it has been merged together with another review/split into two or more reviews].  See [insert link to review].	
	3. Research area no longer active	[insert reason, such as no new studies expected in this area or ethical reasons].	3. Research area no longer active	[Insert reason, such as no new studies expected in this area or ethical reasons].	
	4. Impact of published version	[This Cochrane Review has had low usage or impact and is not a priority for updating.]	4. Impact of published version	[This Cochrane Review has had low usage or impact and is not a priority for updating.]	
	5. Other	[Insert text]	5. Other	[Insert text]	



# In practice

- Single location to report and share the updating status of a review
- Provides a standard framework for reporting the status (with sample, editable text for the free-text explanations)
- Separates a publishing activity (e.g. one that affects citation/DOI/changes content/uses a What's New event\*) with one that provides a comment or explanation of the updating status of a review
- Updating status to be published in 'real time' alongside the review



#### **Demonstration**

- Work through examples
- Assign a status and rationale
- Apply the status and rationale in Archie







Date published: 9 September 2014

**Objective:** "To determine whether oral zinc sulphate increases the rate of healing of venous or arterial leg ulcers."

**Includes:** Six small trials (183 participants) from 1970s

**Search updates:** no studies identified in 2005, 2007, 2008, 2010, 2012, 2014

Altmetric (9 Mar 2016) score of 6; and of related articles\* 13 (pub Feb 16); 33 (pub Jan 14); 6 (pub Dec 12)

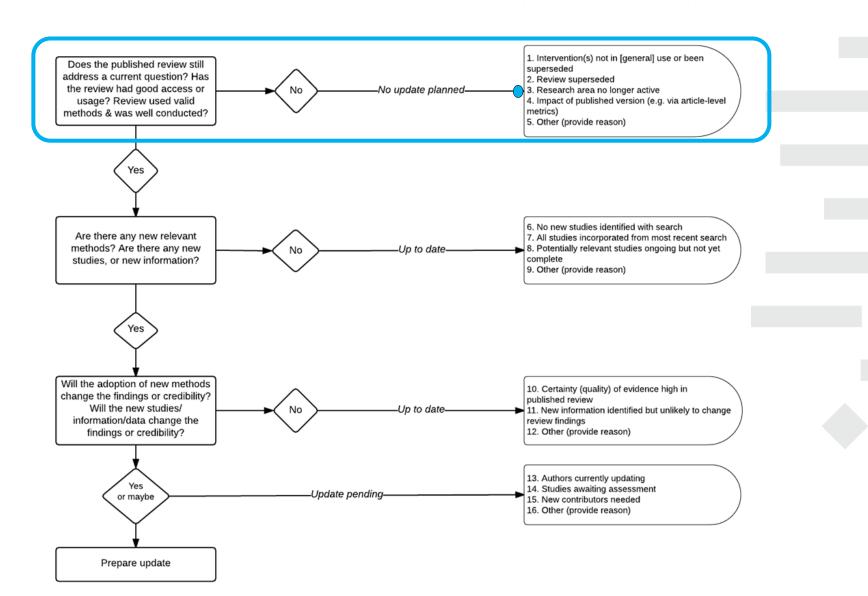
\*in same section of Cochrane Lib browse for 'systemic ulcer therapy'



#### **Decision-making flowchart**

Update status

Rationale for update status





# **Example 1: update status**

- Update status: No update planned
- Rationale: Research area no longer active
- Explanation: e.g. No potentially relevant trials have been published since the 1970s.



ال Go to old article view

**Cochrane** Database of Systematic Reviews

#### Silver acetate for smoking cessation



References

ы

Figures

Tables





Tim Lancaster ⊠, Lindsay F Stead

First published: 12 September 2012

Assessed as up-to-date: 14 August 2012

Editorial Group: Cochrane Tobacco Addiction Group

DOI: 10.1002/14651858.CD000191.pub2 View/save citation

Cited by: 2 articles Refresh Citing literature

Am score 6



Date published: 12 September 2012

**Objective:** "The aim of this review was to determine the effectiveness of silver acetate products (gum, lozenge, spray) in promoting smoking cessation."

**Includes:** 3 trials between 1986 and 1996 (search July 2012)

**Altmetric (19 Jul 2016) score of 6**; and of **related articles\*** 40 (pub Nov 14); 3 (pub Feb 12); 3 (pub Apr 06); 26 (Mar 16)

<sup>\*</sup>in same section of Cochrane Lib browse for 'pharmacological interventions'



**Authors' conclusions – Implications for research:** 

"Further research on silver acetate for smoking cessation is unlikely to be helpful."

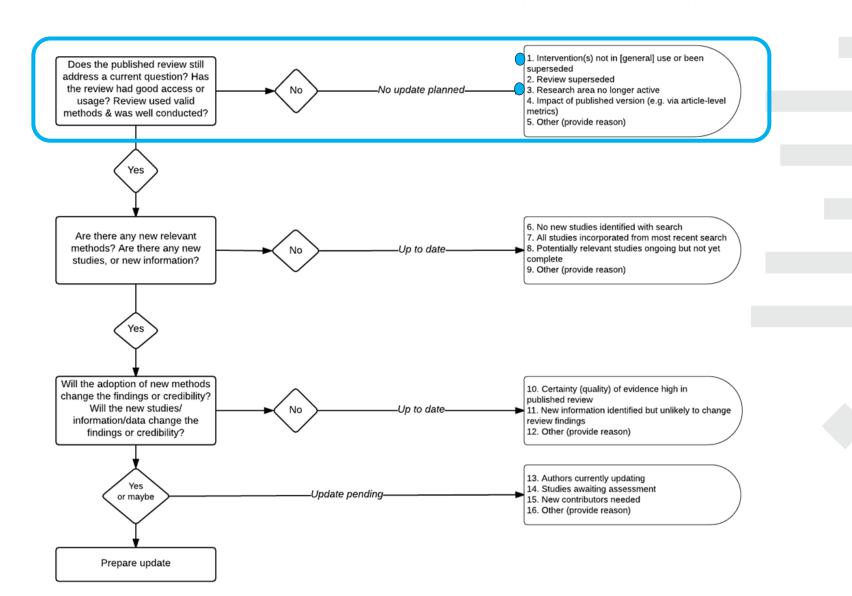
New search (March 2016): identified no new trials



#### **Decision-making flowchart**

Update status

Rationale for update status





## **Example 2: update status**

- Update status: No update planned
- Rationale: Research area no longer active or Intervention not in [general] use or been superseded
- **Explanation:** e.g. No new trials since 1996, and further research on silver acetate for smoking cessation is unlikely to be helpful.



# Example 3

→ Go to old article view

Cochrane Database of Systematic Reviews

#### Allergen-specific oral immunotherapy for peanut allergy

Review

References

Figures

Tables

Intervention

Ulugbek Nurmatov, Iris Venderbosch, Graham Devereux, F Estelle R Simons, Aziz Sheikh ⊠

First published: 12 September 2012 Assessed as up-to-date: 13 April 2012

Editorial Group: Cochrane Tobacco Addiction Group

DOI: 10.1002/14651858.CD009014.pub2 View/save citation

Cited by: 9 articles Refresh Citing literature

Am score 31



# Example 3

Date published: 12 September 2012

**Objective:** "To establish the effectiveness and safety of [oral immunotherapy] OIT in people with IgE-mediated peanut allergy who develop symptoms after peanut ingestion."

**Includes:** 1 trial (28 participants) from 2011; 8 ongoing studies

**New scoping search (Jul 2016):** identified some potentially relevant trials

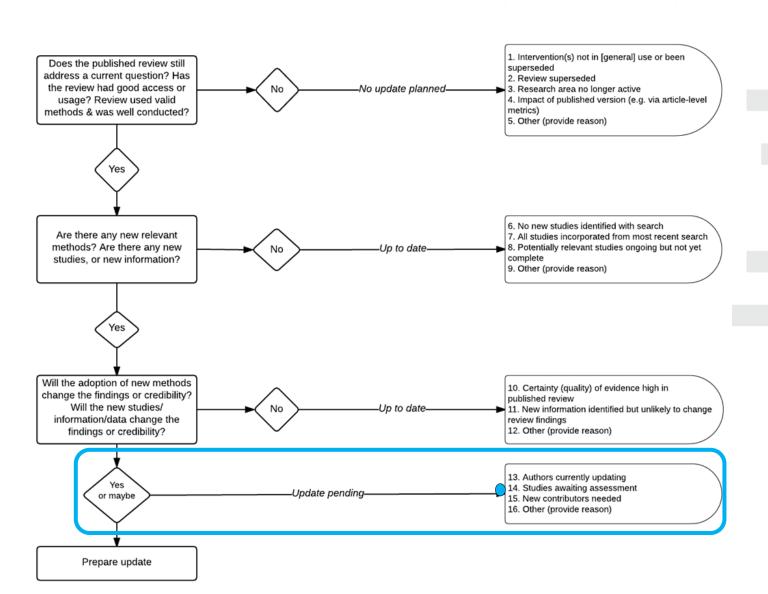
**Altmetric** (19 Jul 2016) score of 31; cited by 19 PubMedCentral articles



#### **Decision-making flowchart**

Update status

Rationale for update status





# **Example 3: update status**

- Update status: Update pending
- Rationale: Studies awaiting assessment
- **Explanation:** e.g. A search for studies has identified potentially relevant studies (see 'Characteristics of studies awaiting classification'). These studies have not yet been incorporated into this Cochrane Review.



# **Archie**

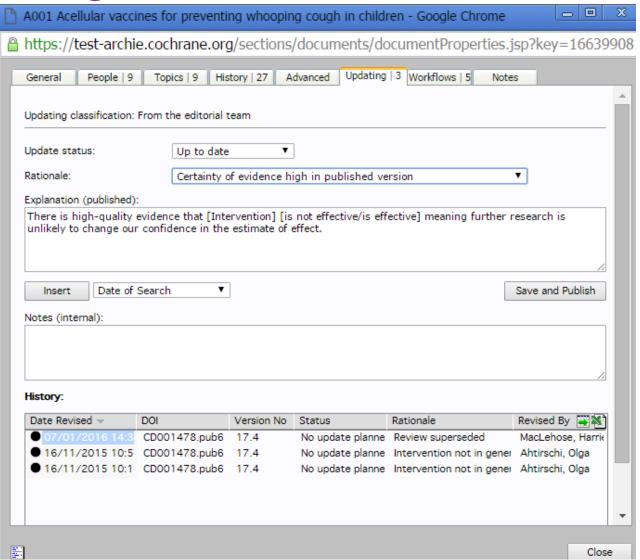


# **UCS in Archie**

- Classify reviews within Archie
- Run reports in Archie
- Key difference with this system to all our publishing systems, is that the update statuses will be published as and when selected (and can be added or revised between review versions)
- Demonstrated wireframes in Vienna (Oct 2015); adjusted
   Archie interfaces based on feedback

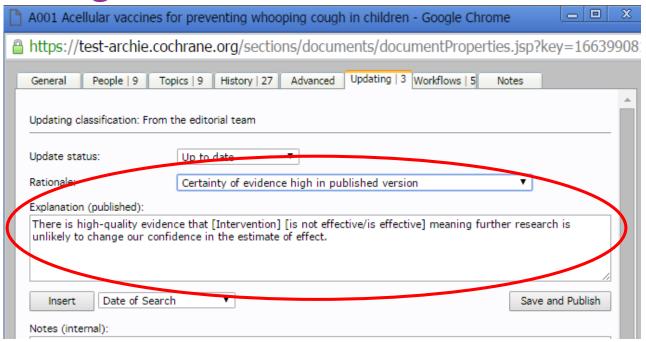


# **Updating tab**





# **Updating tab**



#### **Explanation box:**

- fill in the text box with appropriate messaging
- remove any unwanted brackets or ellipses e.g. […]
- be specific about time periods e.g. update due in
   'October' 2017 rather than 'autumn' 2017



# **Applying your status in Archie**

- Using the results from the scenarios
- Apply the Updating status and Rationale in Archie
- Note: status to be applied to all existing intervention and DTA reviews, as well as new reviews and updates



# Example 1

Oral zinc for arterial and venous leg ulcers

Date published: 9 September 2014

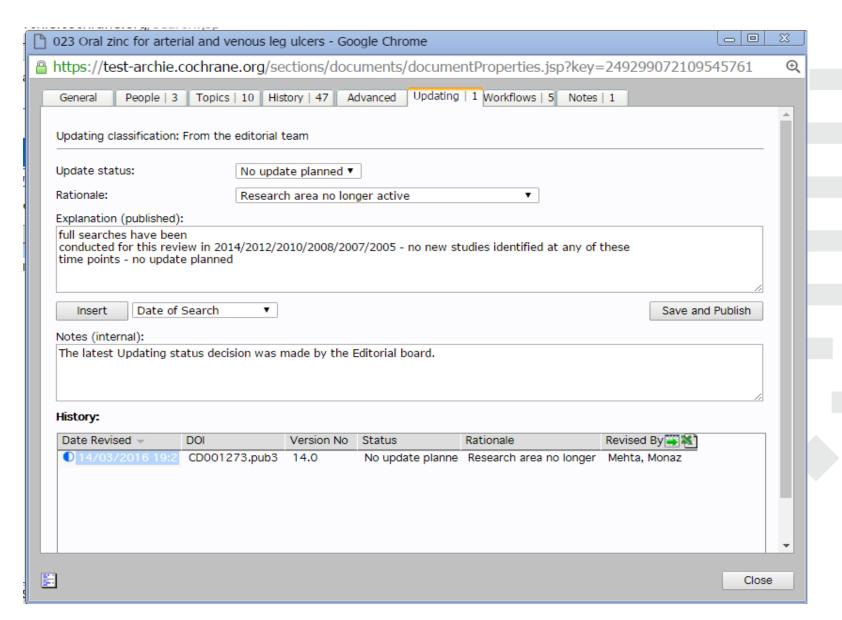
**Altmetric (09 Mar 2016):** 6

Altmetric of related articles (in same section of Cochrane Lib browse for 'systemic ulcer therapy'):

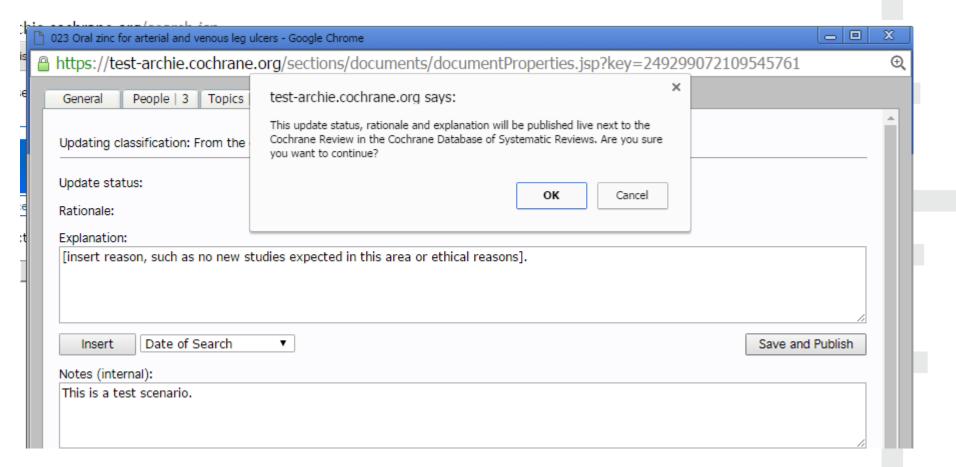
13 (pub Feb 16); 33 (pub Jan 14); 6 (pub Dec 12)

- Update status: No update planned
- Rationale: Research area no longer active



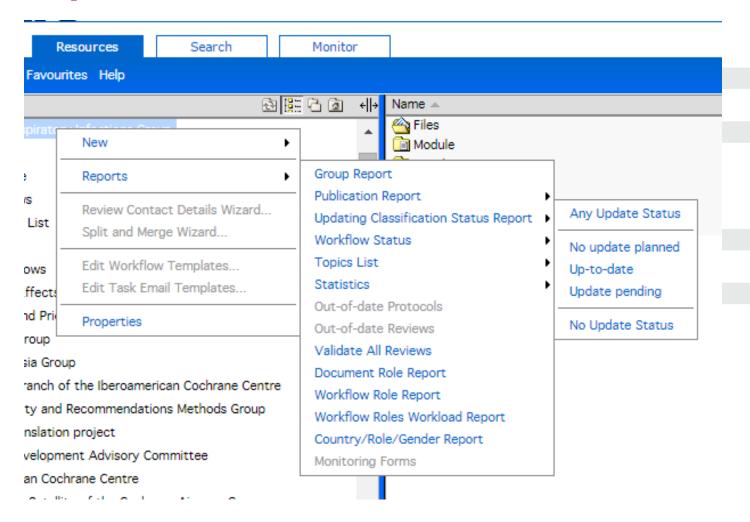








# **Reports**







Viewer - Google Chrome

https://test-archie.cochrane.org/popups/view.jsp?url=%2Fsections%2Fdocuments%2FupdatingStatusReport.jsp%3FentityPK%3D48

Contents:

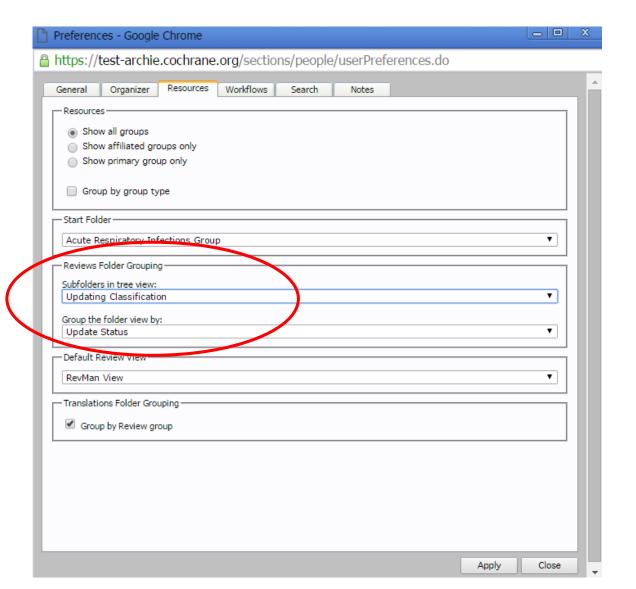
#### **Updating Status Report: Any Status**

Acute Respiratory Infections Group, 11/03/2016 08:57

Title	Review No	Review Type \$	Status +	Update Status +	Rationale +	Date Revised \$	Revised By \$
Acellular vaccines for preventing whooping cough in children	A001	Intervention review	Active	No update planned	Review superseded	08/01/2016 04:34	MacLehose, Harriet
Acetaminophen (paracetamol) for the common cold in adults	A145	Intervention review	Active	No update planned	Intervention not in general use or been superseded	11/12/2015 08:39	Mehta, Monaz
Acetylcysteine and carbocysteine for acute upper and lower respiratory tract infections in paediatric patients without chronic broncho-pulmonary disease	A002	Intervention review	Active	No update planned	Intervention not in general use or been superseded	12/01/2016 14:30	Ahtirschi, Olga
Acupuncture for mumps in children	A147	Intervention review	Active	Up to date	No new studies identified with search	10/12/2015 04:40	Moustgaard, Rasmus K
Acyclovir for treating varicella in otherwise healthy children and adolescents	A003	Intervention review	Active	Up to date	No new studies identified with search	18/12/2015 03:22	Riis, Jr, Jacob
Advising patients to increase fluid intake for treating acute respiratory infections	A093	Intervention review	Active	Up to date	No new studies identified with search	08/01/2016 13:57	Ahtirschi, Olga
Amantadine and rimantadine for influenza A in adults	A006	Intervention review	Active	No update planned	Intervention not in general use or been superseded	19/11/2015 00:44	Ahtirschi, Olga
Amantadine and rimantadine for influenza A in children and the elderly	A005	Intervention review	Active	Up to date	No new studies identified with search	09/01/2016 01:11	Ahtirschi, Olga
Antibiotic prophylaxis for preventing meningitis in patients with basilar skull fractures	A101	Intervention review	Active	Up to date	No new studies identified with search	12/01/2016 14:24	Ahtirschi, Olga



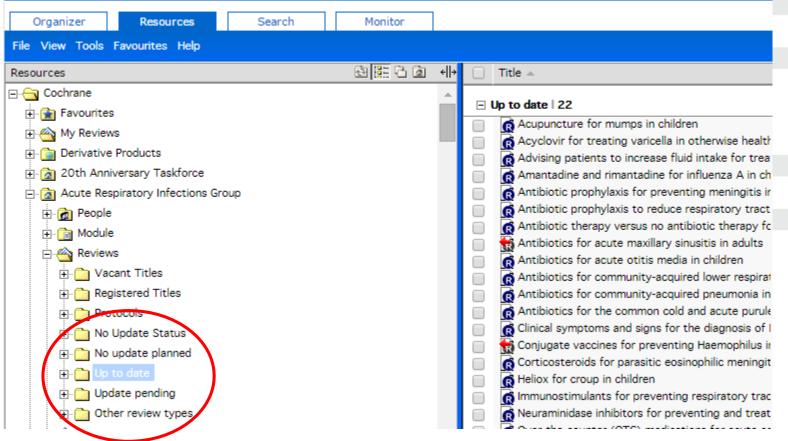
# **Folders**





# **Archie**

Database copied on 2 March 2015.





# Search

Arc	chie Database	copied or	n 27th May 2016.			
Organiz	er Resources	Search				
File Tools	Favourites Help					
Qu	ick Advance	d	Results		Selection	
Advance	ced Search O People	● Docum	nents Groups  Contains	O Workflows	O Tasks	O Review Ver
⊗ ≡ ⊗ ≡ ⊗ ≡	Contact Person Review Stage Review Status Review Phase Review Type Review No RevMan ID Review DOI (CD Number) Next Stage Expected Assessed as Up-to-date Date of Search Content Edited Review Topic Group Review Topic Name Review Topic	=	Contains   Contains   Contains			
	Has Updating Classification Updating Classification Updating Classification Explanation Updating Classification Revised		F	Prost		

# **Cochrane Reviews and the Cochrane Library**



 System will help readers of Cochrane Reviews, to guide them about the updating status of the Cochrane Review, and to help them decide how to use a Cochrane Review

 Display the Update Status in the Cochrane Database of Systematic Reviews, the Cochrane Library, both with the individual Cochrane Review and as tags to help with browsing



# **Example: Up to date**



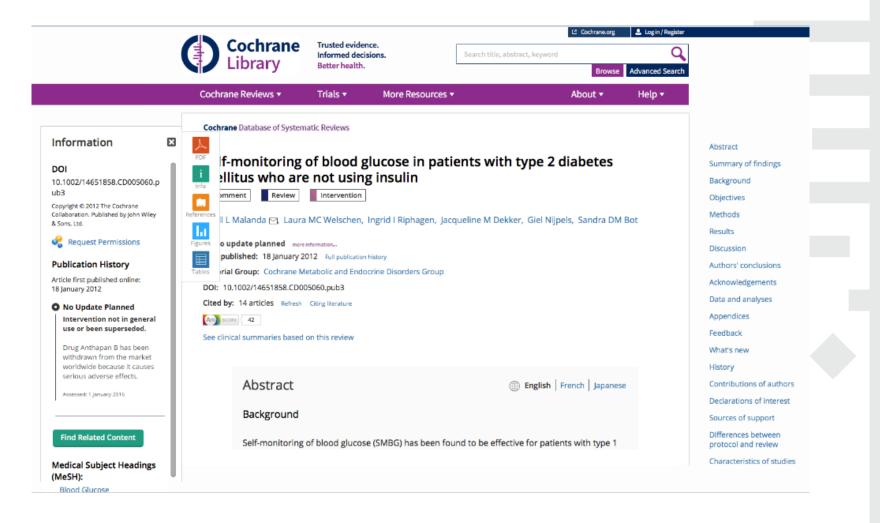


## **Example: Up to date**



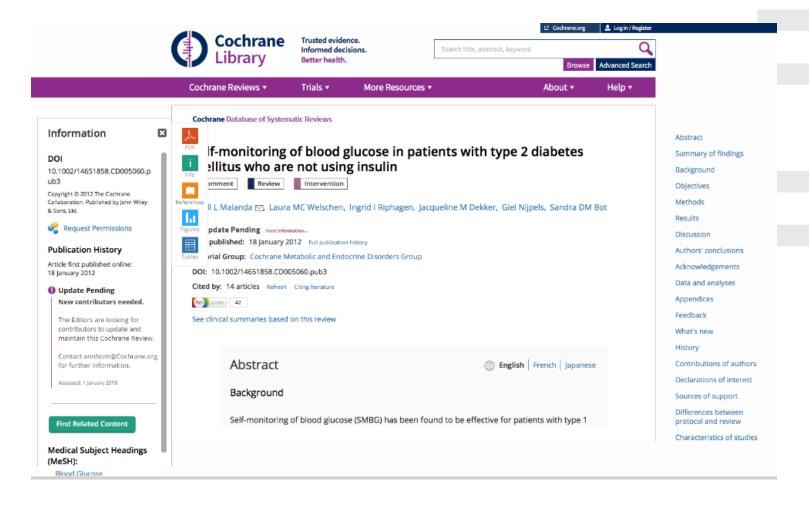


#### **Example: No update planned**





# **Example: Update pending**





# **Browse**page Showing Update Classifications identifiers

how the browse page may appear in future

Refin	ne your results	Dietary sodium manipulation and asthma
Date	Clear all filters	OPEN Emily J Bailey, Christopher J Cates, Sue G Kruske , Peter S Morris, Ngiare Brown and Anne B
	dated within the last:	Chang
		Up to date   Online Publication Date: 23 April 2015
All dates (xx	·	Conclusions changed Comment Review
<ul> <li>3 months (7</li> <li>6 months (6</li> </ul>	*	
1 year (6)	05)	Culture-specific programs for children and adults from who have asthma
2 years (26)	)	Emily J Bailey, Christopher J Cates, Sue G Kruske , Peter S Morris and Ngiare Brown
		Up to date   Online Publication Date: 23 January 2015
Cochrane Revie	w Group	Diagnostic Review
Acute Resp	iratory Infections Group	
. ,	Cancer Group (5)	Dietary sodiumtnipulation and asthma FILE Anne B Chang, Brett Taylor, I Brent Masters, Yancy Laifoo and Alexander DH Brown
Epilepsy Gr	roup (5)	Update pending   Online Publication Date: 12 December 2014
	ision Group (5)	Diagnostic Review
Metabolic a Group (5)	and Endocrine Disorders	Diagnostic Review
	gy Review Group (5)	Oietary sodium manipulation and asthma
Movement	Disorders Group (5)	Zara Pogson and Tricia McKeever
	show more (2)	♥ Up to date   Online Publication Date: 23 January 2014
itage		Methodology Review
_	1	
Review (65) Protocol (6)		Culture-specific programs for children and adults from minority s who have asthma
	,	Emily J Bailey, Christopher J Cates, Sue G Kruske, Peter S Morris, Ngiare Brown and Anne B Chang
уре		No update planned: For reference   Online Publication Date: 23 May 2013
Overview (1	10)	Overview Protocol
Diagnostic	,	
Methodolog	. ,	
Prognosis (	(1)	Indigenous healthcare worker involvement for Indigenous adults and children
		Anne B Chang, Brett Taylor, I Brent Masters, Yancy Laifoo and Alexander DH Brown Online Publication Date: 23 January 2012
tatus		Overview Review
Update (74)		COLUMN INCOME.
New Search	` '	
<ul><li>Major Chan</li><li>Conclusion</li></ul>	nge (26) ns Changed (6)	Dietary sodium manipulation and asthma
_ Conclusion	is changed (o)	Zara Pogson and Tricia McKeever
Updates		♥ Up to date   Online Publication Date: 23 June 2011
Up to date	(65)	Diagnostic Review
Update per		
	planned (24)	Indigenous healthcare worker involvement for Indigenous adults and children
		Anne B Chang, Brett Taylor, I Brent Masters, Yancy Laifoo and Alexander DH Brown
		Up to date   Online Publication Date: 23 June 2011

Diagnostic

Protocol



# **Browse page**

### **Showing Update Classifications identifiers (details)**

Culture-specific programs for children and adults from who have asthma

Emily J Bailey, Christopher J Cates, Sue G Kruske, Peter S Morris and Ngiare Brown

Up to date | Online Publication Date: 23 January 2015







Anne B Chang, Brett Taylor, I Brent Masters, Yancy Laifoo and Alexander DH Brown

Update pending | Online Publication Date: 12 December 2014





Culture-specific programs for children and adults from minority s who have asthma

Emily J Bailey, Christopher J Cates, Sue G Kruske, Peter S Morris, Ngiare Brown and Anne B Chang

No update planned: For reference | Online Publication Date: 23 May 2013

Overview

Protocol

# Recap and what's next



# Review of the webinar aims

- Learn about the Updating Classification System for Cochrane Reviews
- Apply an Update Status to a Cochrane Review using example reviews
- Apply an Update Status to a Cochrane Review in Archie
- Learn how the Update Status will appear alongside a published Cochrane Review



# What's next?

- Now available in Live Archie
- Guidance to use the UCS, is available on the Editorial and Publishing Policy Resource website
- Workshop at Colloquium
- Develop updating strategy and identify areas for future work

# Thank you