

# Critical Appraisal Toolkit for Cohort Studies

### How to use this toolkit?

Three broad issues need to be considered when appraising the report of a systematic review:

- Is the study valid?
- What are the results?
- Will the results help locally?

The 12 questions on the following pages are designed to help you think about these issues systematically.

The first two questions are screening questions and can be answered quickly.

### 1. Did the review ask a clearly-focused question?

Consider if the question is "focused", in terms of the population studies, the risk factors, and the outcomes considered. Is it clear whether the study tried to detect a beneficial or harmful effect?

Yes 🗌 Can't Tell 🗌 No 🗌	
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## 2. Did the authors use an appropriate method to answer their question?

Is a cohort study a good way of answering the question under the circumstances. Did it address the study question?

 $\square$ 

Yes

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lf	you	have	answered	"Yes"	to	both	questions,	it	is	worth
СС	ontinu	uing w	ith the app	oraisal						

### 3. Was the cohort recruited in an acceptable way?

Can't Tell

Was the cohort representative of a defined population? Was there something special about the cohort? Was everybody included who should have been included?

No

No

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### 4. Was the exposure accurately measures to minimise bias?

Consider if subjective or objective measurements were used. Have the measures been validated? Were all subjects classified into exposure groups using the same procedure?

 $\square$ 

Yes Can't Tell

No

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						Knowledge and Information Service
5. Was the ou	tcome acc	urately mea	asured to mi	nimis	e bias?	
Consider if subject been validated? H the measurement r assessors blinded	Critical Appraisal Toolkit 2					
Yes		Can't Tell		No		-
6. Have the au factors? Have design and/or	e they tak	en account	=		-	
Look for restriction sensitivity analysis					regression or	
Yes		Can't Tell		No		
7. Was the fol	low up of	subjects co	omplete and	long e	enough?	
Have good/bad eff namic cohort, was the exposure of pe	there anythin	g special about				
Yes		Can't Tell		No		
8. What are th	e results	of this stud	у?			
What are the bott between the expo association betwee	sed/unexpose	d, the ratio/the	rate difference?	? How		
9. How precis	e are the r	esults/is th	e estimate o	of risk	?	
What is the size of	the confidence	e intervals?				
10. Do you be	lieve the ı	esults?				
Can the result be methods sufficient criteria (e.g. time tency)	ly flawed to r	make the result	s unreliable? Co	onsider l	Bradford Hills	
Yes		Can't Tell		No		
11. Can the r	esults be	applied to t	he local pop	oulatio	n?	
Are the subjects different? Can you				; is the	local setting	
Yes		Can't Tell		No		
12. Do the r evidence?	results of	this stud	y fit with	other	available	
Yes		Can't Tell		No		

For more information or assistance in using this toolkit, please contact the Knowledge and Informatics Trainer for the Knowledge and Information Service: 01522 57(3478) or Library.Informatics@ulh.nhs.uk.