MOOSE Checklist for Meta-analyses of Observational Studies
The association between serum bilirubin and kernicterus spectrum disorder: A systematic review and meta-analysis

Item No	Recommendation	Reported on Page No				
Reporting of	Reporting of background should include					
1	Problem definition	4, Introduction paragraph 1				
		N/A (objectives, 5,				
2	Hypothesis statement	Introduction,				
		paragraph 3) 6, Methods,				
3	Description of study outcome(s)	paragraph 4				
	Type of exposure or intervention used	6, Methods,				
4		paragraph 3 (predictive factor)				
	Time of study designs used	5, Methods				
5	Type of study designs used	paragraph 1				
6	Study population	5, Methods,				
D	for any both to the most could be dead.	paragraph 1				
Reporting of	of search strategy should include					
		6, Methods,				
7	Qualifications of searchers (eg, librarians and investigators)	paragraph 5, Search strategies ("we"				
,	addinibations of souronors (og, instantant and invostigators)	searched, indicating				
		the investigators)				
_		6, Methods,				
8	Search strategy, including time period included in the synthesis and key words	paragraph 5, Search strategies				
		6, Methods,				
9	Effort to include all available studies, including contact with authors	paragraph 5, Search				
		strategies				
10	Databases and registries searched	6, Methods, paragraph 5, Search				
10	Databases and registries searched	strategies				
	Search software used, name and version, including special features used (eg,	Online supplement,				
11	explosion)	Appendix 1, page 2-				
		3 6, Methods,				
12	Use of hand searching (eg, reference lists of obtained articles)	paragraph 5, Search				
	,	strategies				
		8, Results,				
13	List of citations located and those excluded, including justification	paragraph 1 and Appendix 4, citation				
10	List of shadons resulted and these shouldest, moraling justimedian	of excluded				
		shortlisted studies				
14	Method of addressing articles published in languages other than English	N/A				
15	Method of handling abstracts and unpublished studies	N/A				
	Description of any contact with authors	6, Methods,				
16		paragraph 5, Search strategies				
Reporting of	Reporting of methods should include					
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	5-6, Methods,				
		setting, population,				
		predictive/prognostic				
		factor, outcome;				
		Appendix 2, Data extraction and				
		management,				

		Measures of
		association between
		the predictive or prognostic factor
		and the outcome
		6-7, Data analysis
40	Rationale for the selection and coding of data (eg, sound clinical principles or	(following CHARMS
18	convenience)	checklist), Appendix
	,	2, Data extraction
		and management
	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	6-7, Data analysis
		(following CHARMS
19		checklist), Appendix
	billiding and interface reliability)	Data extraction
		and management
		7, Risk of bias
		assessment,
		Methods, Data
00	Assessment of confounding (eg, comparability of cases and controls in studies	analysis, paragraph
20	where appropriate)	3 and Appendix 2,
	11 1 /	Risk of bias
		assessment of
		included studies.
		7, Risk of bias
		assessment,
		Methods, Data
	Assessment of study quality, including blinding of quality assessors,	analysis, paragraph
21	stratification or regression on possible predictors of study results	3 and Appendix 2,
	and an industrial regression on possible productors of study results	Risk of bias
		assessment of
		included studies.
		7, Methods, Data
		analysis, paragraph
22	Assessment of heterogeneity	5 and Appendix 2,
22	Assessment of fleterogeneity	Dealing with
		heterogeneity 7. Methods, Data
	Description of statistical methods (eg, complete description of fixed or random	•
		analysis, paragraph
23	effects models, justification of whether the chosen models account for	5 and Appendix 2,
	predictors of study results, dose-response models, or cumulative meta-	Data synthesis and
	analysis) in sufficient detail to be replicated	meta-analysis
		approaches
0.4	Description of an annual state tables and annual to	Figures 1
24	Provision of appropriate tables and graphics	(PRISMA),2,3
		(RoB),4 (Forest plot)
Reporting of	of results should include	
25	Graphic summarizing individual study estimates and overall estimate	Figure 4 (Forest Plot of main analysis)
26	Table giving descriptive information for each study included	Table 1
27	Results of sensitivity testing (eg, subgroup analysis)	N/A
28	Indication of statistical uncertainty of findings	95 % CI included in
	, ,	all estimates.

Item No	Recommendation	Reported on Page No		
Reporting of discussion should include				
29	Quantitative assessment of bias (eg, publication bias)	12, Discussion,		

		paragraph 2; page 12, Discussion, paragraph 4 and Appendix 6, GRADE certainty of evidence rating
30	Justification for exclusion (eg, exclusion of non-English language citations)	N/A
31	Assessment of quality of included studies	3, Abstract, Results, paragraph 1; 11-12, Results, RoB of included studies.
Reporting o	f conclusions should include	
32	Consideration of alternative explanations for observed results	12, Discussion, paragraph 1- 2 and 14, Conclusions
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	4, Abstract, Interpretation, 14, Conclusions
34	Guidelines for future research	14, Conclusions
35	Disclosure of funding source	4, Abstract, funding, 7, Methods, paragraph 10.

From: Stroup DF, Berlin JA, Morton SC, et al, for the Meta-analysis Of Observational Studies in Epidemiology (MOOSE) Group. Meta-analysis of Observational Studies in Epidemiology. A Proposal for Reporting. *JAMA*. 2000;283(15):2008-2012. doi: 10.1001/jama.283.15.2008.