

Newcastle Ottawa Scale for cross-sectional study (NOS-xs) - ASSOCIATION STUDY

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DOMAIN	ITEM	ANSWER	AWARDED STAR(S)
STUDY SAMPLE SELECTION (max. 2 stars)	1. Representativeness of the study sample	☐ a) Truly representative of the target population (all subjects or random sampling).* ☐ b) Somewhat representative of the target population (non-random sampling).* ☐ c) No representative of the target population (selected group of users). ☐ d) No description of the sampling strategy.	
	2. Sample size	☐ a) Justified and satisfactory.* ☐ b) Not justified or unsatisfactory.	
ASSESSMENT of EXPOSURE and OUTCOME (max. 4 stars)	3. Assessment of the exposure(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
	4. Assessment of the outcome(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
CONFOUNDING FACTORS (max. 3 stars)	5. Adjustment for confounder(s)	☐ a) The study estimates are adjusted for all the most important confounding factors, and not adjusted for potential mediator(s).** ☐ b) The study estimates are adjusted for all the most important confounding factors, but also for potential mediator(s).* ☐ c) The study estimates are adjusted for some but not all the most important confounding factors.* ☐ d) The study estimates are not adjusted for any of the most important confounding factors or no description is provided.	
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CONFOUNDING FACTORS (max. 3 stars)	5. Adjustment for confounder(s)	☐ a) The study estimates are adjusted for all the most important confounding factors, and not adjusted for potential mediator(s).** ☐ b) The study estimates are adjusted for all the most important confounding factors, but also for potential mediator(s).* ☐ c) The study estimates are adjusted for some but not all the most important confounding factors.* ☐ d) The study estimates are not adjusted for any of the most important confounding factors or no description is provided.	
	6. Assessment of confounder(s)	☐ a) Most of the confounding factors controlled for were measured through gold standard assessment methods.* ☐ b) Most of the confounding factors controlled for were measured through acceptable assessment methods.* ☐ c) Most of the confounding factors controlled for were not measured through at least acceptable assessment methods. ☐ d) No confounding factors controlled for.	
Final Score			

Newcastle Ottawa Scale for cross-sectional study (NOS-xs) - ASSOCIATION STUDY

Study:			
DOMAIN	ITEM	ANSWER	AWARDED STAR(S)
STUDY SAMPLE SELECTION (max. 2 stars)	1. Representativeness of the study sample	☐ a) Truly representative of the target population (all subjects or random sampling).* ☐ b) Somewhat representative of the target population (non-random sampling).* ☐ c) No representative of the target population (selected group of users). ☐ d) No description of the sampling strategy.	
	2. Sample size	☐ a) Justified and satisfactory.* ☐ b) Not justified or unsatisfactory.	
ASSESSMENT of EXPOSURE and OUTCOME (max. 4 stars)	3. Assessment of the exposure(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
	4. Assessment of the outcome(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
CONFOUNDING FACTORS (max. 3 stars)	5. Adjustment for confounder(s)	☐ a) The study estimates are adjusted for all the most important confounding factors, and not adjusted for potential mediator(s).** ☐ b) The study estimates are adjusted for all the most important confounding factors, but also for potential mediator(s).* ☐ c) The study estimates are adjusted for some but not all the most important confounding factors.* ☐ d) The study estimates are not adjusted for any of the most important confounding factors or no description is provided.	
	6. Assessment of confounder(s)	☐ a) Most of the confounding factors controlled for were measured through gold standard assessment methods.* ☐ b) Most of the confounding factors controlled for were measured through acceptable assessment methods.* ☐ c) Most of the confounding factors controlled for were not measured through at least acceptable assessment methods. ☐ d) No confounding factors controlled for.	
Final Score			

Newcastle Ottawa Scale for cross-sectional study (NOS-xs) - ASSOCIATION STUDY

Study:			
DOMAIN	ITEM	ANSWER	AWARDED STAR(S)
STUDY SAMPLE SELECTION (max. 2 stars)	1. Representativeness of the study sample	☐ a) Truly representative of the target population (all subjects or random sampling).* ☐ b) Somewhat representative of the target population (non-random sampling).* ☐ c) No representative of the target population (selected group of users). ☐ d) No description of the sampling strategy.	
	2. Sample size	☐ a) Justified and satisfactory.* ☐ b) Not justified or unsatisfactory.	
ASSESSMENT of EXPOSURE and OUTCOME (max. 4 stars)	3. Assessment of the exposure(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
	4. Assessment of the outcome(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
CONFOUNDING FACTORS (max. 3 stars)	5. Adjustment for confounder(s)	☐ a) The study estimates are adjusted for all the most important confounding factors, and not adjusted for potential mediator(s).** ☐ b) The study estimates are adjusted for all the most important confounding factors, but also for potential mediator(s).* ☐ c) The study estimates are adjusted for some but not all the most important confounding factors.* ☐ d) The study estimates are not adjusted for any of the most important confounding factors or no description is provided.	
	6. Assessment of confounder(s)	☐ a) Most of the confounding factors controlled for were measured through gold standard assessment methods.* ☐ b) Most of the confounding factors controlled for were measured through acceptable assessment methods.* ☐ c) Most of the confounding factors controlled for were not measured through at least acceptable assessment methods. ☐ d) No confounding factors controlled for.	
Final Score			

Newcastle Ottawa Scale for cross-sectional study (NOS-xs) - ASSOCIATION STUDY

Study:			
DOMAIN	ITEM	ANSWER	AWARDED STAR(S)
STUDY SAMPLE SELECTION (max. 2 stars)	1. Representativeness of the study sample	☐ a) Truly representative of the target population (all subjects or random sampling).* ☐ b) Somewhat representative of the target population (non-random sampling).* ☐ c) No representative of the target population (selected group of users). ☐ d) No description of the sampling strategy.	
	2. Sample size	☐ a) Justified and satisfactory.* ☐ b) Not justified or unsatisfactory.	
ASSESSMENT of EXPOSURE and OUTCOME (max. 4 stars)	3. Assessment of the exposure(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
	4. Assessment of the outcome(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
CONFOUNDING FACTORS (max. 3 stars)	5. Adjustment for confounder(s)	☐ a) The study estimates are adjusted for all the most important confounding factors, and not adjusted for potential mediator(s).** ☐ b) The study estimates are adjusted for all the most important confounding factors, but also for potential mediator(s).* ☐ c) The study estimates are adjusted for some but not all the most important confounding factors.* ☐ d) The study estimates are not adjusted for any of the most important confounding factors or no description is provided.	
	6. Assessment of confounder(s)	☐ a) Most of the confounding factors controlled for were measured through gold standard assessment methods.* ☐ b) Most of the confounding factors controlled for were measured through acceptable assessment methods.* ☐ c) Most of the confounding factors controlled for were not measured through at least acceptable assessment methods. ☐ d) No confounding factors controlled for.	
Final Score			

Simplified Newcastle Ottawa Scale for cross-sectional study (NOS-xs2) - PREVALENCE STUDY

Study:			
DOMAIN	ITEM	ANSWER	AWARDED STAR(S)
STUDY SAMPLE SELECTION (max. 2 stars)	1. Representativeness of the study sample	☐ a) Truly representative of the target population (all subjects or random sampling).* ☐ b) Somewhat representative of the target population (non-random sampling).* ☐ c) No representative of the target population (selected group of users). ☐ d) No description of the sampling strategy.	
	2. Sample size	☐ a) Justified and satisfactory.* ☐ b) Not justified or unsatisfactory.	
ASSESSMENT of OUTCOME (max. 2 stars)	3. Assessment of the outcome(s)	☐ a) Gold-standard assessment tool.** ☐ b) Acceptable assessment tool.* ☐ c) Non-acceptable assessment methods. ☐ d) No description of the assessment tool.	
Final Score			