ASPS Critical Appraisal Checklist



Key for all tables: Y = Yes = No N

Not applicableNot addressed N/A

Systematic Review/Meta-Analysis (Prognostic/Risk or Treatment)

	Could publ article seld	s for Selection ication bias plection? Coulc hods influence the review?	ay a role in I literature	Could diff	Assess for Measurement Bias Could differences in how the studies were reviewed and analyzed influence the results of the review?							
Author, Pub Date	Inclusion and exclusion criteria identified and articles appropriately selected	Multiple search methods utilized	All eligible studies included in analysis and rationale provided for excluded studies	Studies assessed by blinded reviewer(s)	Studies assessed by multiple reviewers	Valid critical appraisal system described and applied	If data was combined, it was reasonable to do so (type of data collected was similar in studies)	Data synthesis method described and applied appropriately	Recommendations are consistent with overall results	Free of potential conflict of interest related to authors and/or funding		

RCT (Treatment)

	Could any differences between patients or the way in which patients were selected or randomized influence the treatment effect?								Assess for Intervention Bias: Could any differences in how patients/groups were treated influence the treatment effect?			Assess for Measurement Bias: Could any differences in how the outcome was measured and/or reported influence the treatment effect?				Assess for Type II error	Assess for Conflict of Interest
Author, Pub Date	Patients appropriately recruited	Allocation concealed (i.e., the randomization process was concealed)	Patients appropriately randomized into intervention/control groups	Groups similar except for treatment allocation	Confounders addressed	Data complete for at least 80% of patients in each group	Patients lost to follow up were not significantly different than remaining patients	If applicable, intention-to-treat analysis described and applied appropriately	Intervention method described and applied similarly within treatment group	Caregiver blinded (Groups treated similarly except for intervention)	Treatment administered by same surgeon	Patients Blinded	Outcome assessor blinded	Outcomes measured similarly and w/ valid defined criteria	Sufficient follow up time to detect and measure outcome	Adequate power to detect effect for each measured outcome	Free of potential conflicts of interest related to authors and/or funding

Cohort/Comparative (Treatment)

	Retrospective (R)	Assess for Selection Bias: Could any differences between groups influence the treatment effect?					Assess for Intervention Bias: Could any differences in how groups were treated influence the treatment effect?		Assess for Measurement Bias: Could any differences in how the outcome is measured and/or reported influence the treatment effect?			Assess for Type II error	Assess for Conflict of Interest
Author, Pub Date	Prospective (P) or Retro	Cohort and controls selected appropriately	Groups similar at entry except for intervention	Confounders addressed	Data complete for at least 80% of patients in each group	Pts lost to follow up not significantly different than remaining pts	Intervention applied similarly within the Treatment Group	Treatment administered by same surgeon	Outcome Assessor Blinded (if feasible)	Outcomes measured similarly and w/ valid, defined criteria	Follow-up long enough to detect outcome	Adequate power to detect effect for each measured outcome	Free of potential conflicts of interest related to authors and/or funding

Cohort/Comparative (Risk)

	Retrospective (R)	Assess for Selection Bias: Could any differences between groups influence the outcome?				Assess for Intervention Bias: Could any differences in how groups were treated influence the outcome?		Could any and outcor	ss for Measurement differences in how the ne are measured and/ nfluence the outcome	Assess for Type II error	Assess for Conflict of Interest		
Author, Pub Date	Prospective (P) or Ro	Cohort and controls selected appropriately	Groups similar at entry except for exposure/risk factor of interest	Confounders addressed	Data complete for at least 80% of patients in each group	Pts lost to follow up not significantly different than	Procedure applied similarly within all patients/groups	All procedures performed by same surgeon	Outcome Assessor Blinded (if feasible)	Exposure/risk factor and outcomes measured similarly and w/ valid, defined criteria	Follow-up time sufficient to detect outcome	Adequate power to detect effect for each measured outcome	Free of potential conflicts of interest related to authors and/or funding

Case-Control (Risk or Treatment)

	Assess for Selection Bias: Could any differences between groups influence the outcome?					differences cedure was nfluence the	Assess for Measurement Bias: Could any differences in how the exposures/risk factors and/or outcomes are measured influence the outcome?					Assess for Type II error	Assess for Conflict of Interest
Author, Pub Date	Cases selected appropriately	Controls selected appropriately	Groups similar except for outcome of interest	Confounders addressed	Procedure performed similarly n all patients/groups	All procedures performed by same surgeon	Outcome of interest measured with valid, defined criteria	Exposure or risk factor measured with valid, defined criteria	Exposure or risk factor precedes outcome	Cases and controls evaluated with similar methods	Blinding incorporated (if feasible)	Power sufficient to detect differences between groups	Free of potential conflicts of interest related to authors and/or funding

Case-Series (Risk or Treatment)

	Patients sh Case Ser patients v Could any c	s for Selection could be consective study to en- were not "hand confounding is the outcome?	ecutive in a asure that dpicked."		were treated	Assess for E Could any the outcome influence	Assess for Conflict of Interest	
Author, Pub Date	Cases selected appropriately	Cases were consecutive	Confounders addressed	Intervention performed similarly n all patients	All procedures performed by same surgeon	Outcomes measured with valid, defined criteria	Follow-up time sufficient to detect outcome	Free of potential conflicts of interest related to authors and/or funding

Diagnostic Studies

8	Could ar patients	for Selection ny differences influence the of the diagno	between reported	Could any tests wer	or Interventi y differences i e applied influ fficacy of the test?	n how the sence the	Asse Measurer Could any in meas influence t efficac diagnos	Assess for Conflict of Interest	
Author, Pub Date	Cases selected appropriately	Cases were consecutive	Cases represent a wide range of condition/disease severity	Methods for diagnostic test well defined	Diagnostic test applied similarly to all patients	Diagnostic test compared to a reference test in all patients	Condition/disease well defined	Assessors of diagnostic test results blinded to diagnosis and results of reference standard test	Free of potential conflicts of interest related to authors and/or funding