

JBI Critical Appraisal Checklist for Analytical Cross Sectional Studies

Reviewer _____ Date _____

Author _____ Year _____ Record Number _____

	Yes	No	Unclear	Not applicable
1. Were the criteria for inclusion in the sample clearly defined?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Were the study subjects and the setting described in detail?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Was the exposure measured in a valid and reliable way?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were objective, standard criteria used for measurement of the condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Were confounding factors identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were strategies to deal with confounding factors stated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were the outcomes measured in a valid and reliable way?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Was appropriate statistical analysis used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Overall appraisal: Include Exclude Seek further info

Comments (Including reason for exclusion)

JBI Critical Appraisal Checklist for Case Control Studies

Reviewer _____ Date _____

Author _____ Year _____ Record Number _____

	Yes	No	Unclear	Not applicable
1. Were the groups comparable other than the presence of disease in cases or the absence of disease in controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Were cases and controls matched appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Were the same criteria used for identification of cases and controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Was exposure measured in a standard, valid and reliable way?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Was exposure measured in the same way for cases and controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were confounding factors identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were strategies to deal with confounding factors stated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were outcomes assessed in a standard, valid and reliable way for cases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Was the exposure period of interest long enough to be meaningful?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Was appropriate statistical analysis used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

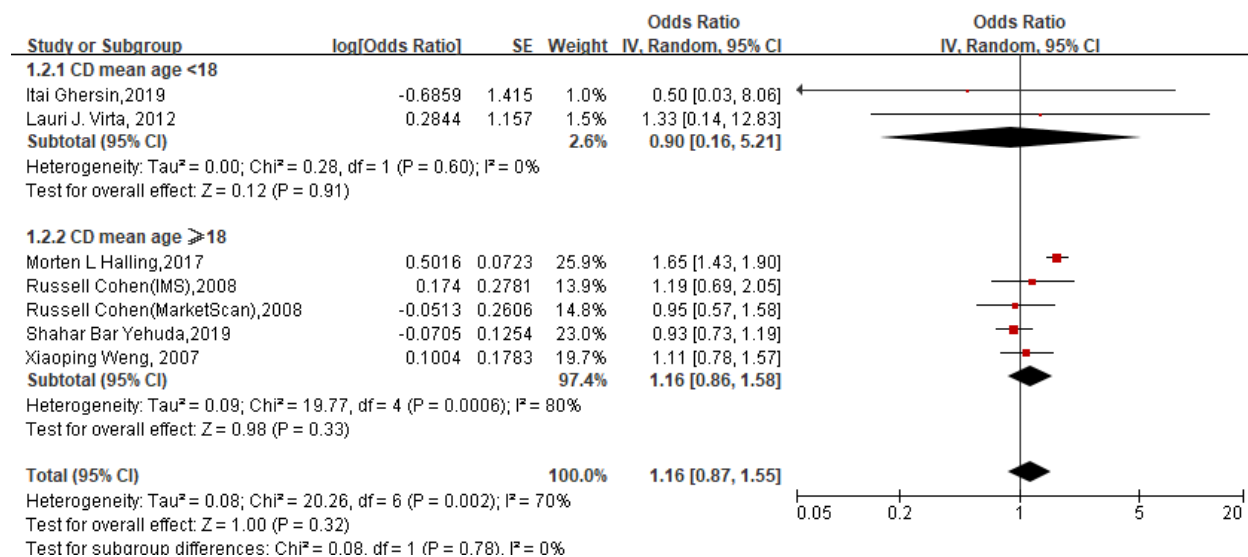
Overall appraisal: Include Exclude Seek further info

Comments (Including reason for exclusion)

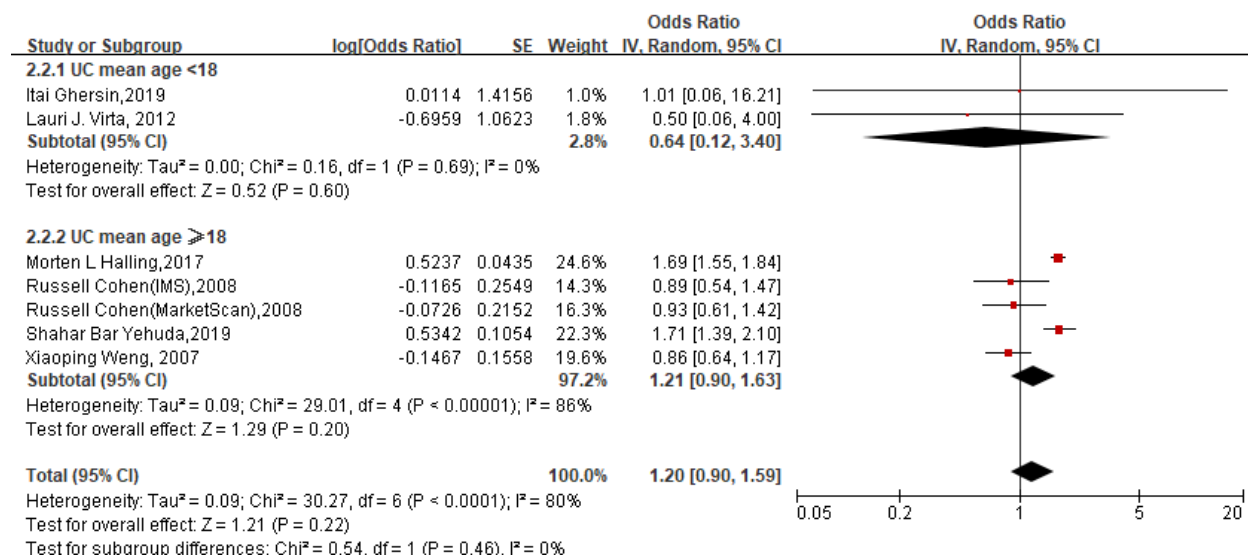
Publication	Checklist for cross-sectional study							
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Xiaoping Weng, 2007	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Russell Cohen, 2008 (MarketScan)	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Russell Cohen, 2008 (IMS)	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Morten L Halling, 2017	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Shahar Bar Yehuda, 2019	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Itai Ghersin, 2019	Yes	Yes	Yes	Yes	No	No	Yes	Yes

Publication	Checklist for case-control study									
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Xiaoping Weng, 2007	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes

Supplement 3: Quality assessment of included studies.



Supplement 4: Subgroup analysis was performed to assess the risk of T1DM in CD patients. Studies were divided into mean age <18 and ≥18 group. CD: Crohn's disease, T1DM: type 1 diabetes mellitus.



Supplement 5: Subgroup analysis was performed to evaluate the risk of T1DM in UC patients. Studies were divided into mean age <18 and ≥18 group. UC: ulcerative colitis, T1DM: type 1 diabetes mellitus.