

Supplement 2. Summary: Risk of Bias using the bias tool by Hoy and colleagues [18] for prevalence studies (n=30)

	Khor GL, et al [42]	Poh BK, et al [27]	Nguyen BKL, et al [29]	Rojroongwasinkul N, et al [38]	Soesanti F, et al [34]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	High	Low	Low	Low	High
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	High
3. Was some form of random selection used to select the sample, OR was a census undertaken?	Low	Low	Low	Low	High
4. Was the likelihood of non-response bias minimal?	High	High	High	High	High
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
6. Was an acceptable case definition used in the study?	Low	Low	Low	Low	Low
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Low	Low	Low	Low	High
8. Was the same mode of data collection used for all subjects?	Low	Low	Low	Low	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Low	High	High	Low	Low
10. Summary item on the overall risk of study bias	Low	Low	Low	Low	Moderate
final assessment	Low	Low	Low	Low	Moderate

	Poomthavorn P, et al [31]	Sandjaja S, et al [33]	Laillou A, et al [43]	Houghton LA, et al [49]	Reesukumal K, et al [28]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	High	Low	Low	High	High
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	Low
3. Was some form of random selection used to select the sample, OR was a census undertaken?	High	High	Low	Low	High
4. Was the likelihood of non-response bias minimal?	High	High	High	High	High
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
6. Was an acceptable case definition used in the study?	Low	Low	Low	Low	Low
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Low	High	Low	Low	Low
8. Was the same mode of data collection used for all subjects?	Low	Low	Low	Low	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Low	High	Low	Low	Low
10. Summary item on the overall risk of study bias	Low	Moderate	Low	Low	Low
final assessment	Low	Moderate	Low	Low	Low

	Ernawati F & Budiman B [40]	Senaprom S, et al [39]	Smith G, et al [51]	Poh BK, et al 2016 [37]	Al-Sadat N, et al [44]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	Low	Low	Low	Low	Low
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	Low
3. Was some form of random selection used to select the sample, OR was a census undertaken?	Low	Low	Low	Low	Low
4. Was the likelihood of non-response bias minimal?	High	High	High	High	High
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
6. Was an acceptable case definition used in the study?	Low	Low	Low	Low	Low
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Low	Low	Low	Low	Low
8. Was the same mode of data collection used for all subjects?	Low	Low	Low	High	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Low	Low	Low	High	High
10. Summary item on the overall risk of study bias	Low	Low	Low	Low	Low
final assessment	Low	Low	Low	Low	Low

	Yani F, et al [24]	Nguyen Bao, et al [30]	Loeb M, et al [36]	Chuc DV, et al [22]	Ariyawatkul & Lersbuasin [46]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	High	Low	High	High	High
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	Low
3. Was some form of random selection used to select the sample, OR was a census undertaken?	Low	Low	Low	Low	High
4. Was the likelihood of non-response bias minimal?	High	High	Low	High	High
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
6. Was an acceptable case definition used in the study?	Low	Low	High	Low	Low
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Low	Low	Low	Low	Low
8. Was the same mode of data collection used for all subjects?	Low	Low	Low	Low	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Low	Low	Low	Low	Low
10. Summary item on the overall risk of study bias	Low	Low	Low	Low	Low
final assessment	Low	Low	Low	Low	Low

	Rahmadhani R , et al [45]	Quah SW et al, [25]	Tanggam H, et al [47]	Diana A, et al [26]	Oktaria V, et al, [35]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	High	Low	High	High	High
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	Low
3. Was some form of random selection used to select the sample, OR was a census undertaken?	Low	Low	High	Low	Low
4. Was the likelihood of non-response bias minimal?	High	Low	High	Low	High
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
6. Was an acceptable case definition used in the study?	Low	Low	Low	Low	Low
7. Was the study instrument that measured the parameter of interest shown to have validity and reliability?	Low	Low	Low	Low	Low
8. Was the same mode of data collection used for all subjects?	Low	Low	Low	Low	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Low	Low	Low	Low	Low
10. Summary item on the overall risk of study bias	Low	Low	Low	Low	Low
final assessment	Low	Low	Low	Low	Low

	Hussain S& Elnajeh M [32]	Pulungan A, et al [54]	Irwinda R& Andardi B [56]	Oktaria V, et al [23]	Febriani A, et al [68]
External validity					
1. Was the study's target population a close representation of the national population in relation to relevant variables?	Low	High	High	High	Low
2. Was the sampling frame a true or close representation of the target population?	Low	Low	Low	Low	Low
3. Was some form of random selection used to select the sample, OR was a census undertaken?	High	High	Low	Low	Low
4. Was the likelihood of non-response bias minimal?	High	High	Low	Low	Low
Internal validity					
5. Were data collected directly from the subjects (as opposed to a proxy)?	Low	Low	Low	Low	Low
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8. Was the same mode of data collection used for all subjects?	Low	Low	Low	Low	Low
9. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	High	Low	Low	Low	High
10. Summary item on the overall risk of study bias	Low	Low	Low	Low	Low
final assessment	Low	Low	Low	Low	Low