**Appendix S3 Risk of bias assessment tool**

Adapted from the Risk of Bias Tool for Prevalence Studies developed by Hoy, Brooks, Woolfe et al. (2012)

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| **Risk of Bias Item** | **Answer:** **Yes (Low Risk) or No (High risk)** |
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| **External Validity** |  |
| 1. Was the study target population a close representation of the national pregnant population in relation to relevant variables?
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| 1. Was the sampling frame a true or close representation of the target population?
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| 1. Was some form of random selection used to select the sample, OR, was a census undertaken?
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| 1. Was the likelihood of non-participation bias minimal?
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| **Internal Validity** |  |
| 1. Were data collected directly from the subjects? (as opposed to medical records)
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| 1. Were acceptable diagnostic criteria for GDM used?
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| 1. Was a reliable and accepted method of testing for GDM utilised?
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| 1. Was the same mode of data collection used for all subjects?
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| 1. Was GDM tested for within the advised gestational period of 24-28 weeks?
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| 1. Were the numerator(s) and denominator(s) for the calculation of the prevalence of GDM appropriate?
 |  |
| 1. Summary item on the overall risk of study bias

LOW RISK OF BIAS: 8 or more “yes” answers. Further research is very unlikely to change our confidence in the estimate.MODERATE RISK OF BIAS: 6 to 7 “yes” answers. Further research is likely to have an important impact on our confidence in the estimate and maychange the estimate.HIGH RISK OF BIAS: 5 or fewer “yes” answers. Further research is very likely to have an important impact on our confidence in the estimate and is likelyto change the estimate. |  |