



Supplementary Figure 2. Risk of Bias assessment of the 102 reviewed research reports on GDM. Average number of items clearly met: 6.7 out of the 9 Measure ROB items

- Q1: Was the research question or objective in this paper clearly stated? 1: Low risk of bias (ROB), 2: High ROB, 3: Unclear ROB
- Q2: Was the study population clearly specified and defined? 1: Low ROB, 2: High ROB, 3: Unclear ROB
- Q3: Was the participation rate of eligible persons at least 50%? 1: Low ROB, 2: High ROB, 3: Unclear ROB
- Q4: Were all the subjects selected or recruited from the same or similar populations (including the same time period)? Were inclusion and exclusion criteria for being in the study prespecified and applied uniformly to all participants? 1: Low ROB, 2: High ROB, 3: Unclear ROB
- Q5: Was a sample size justification, power description, or variance and effect estimates provided? 1: Low ROB, 2: High ROB, 3: Unclear ROB
- Q6: Were the outcome measures (dependent variables) clearly defined, valid, reliable, and implemented consistently across all study participants? 1: Low ROB, 2: High ROB, 3: Unclear ROB

Q7: GDM ascertainment (1: biological assay/medical records; 2:self-reported; 3: unclear)

Q8: Sampling methodology (1: probability-based “random, consecutive, or whole population within a specified period of time”; 2: non-probability based; 3: unclear)

Q9: Precision (1: tested sample size ≥ 100 ; 2: tested sample size < 100)