



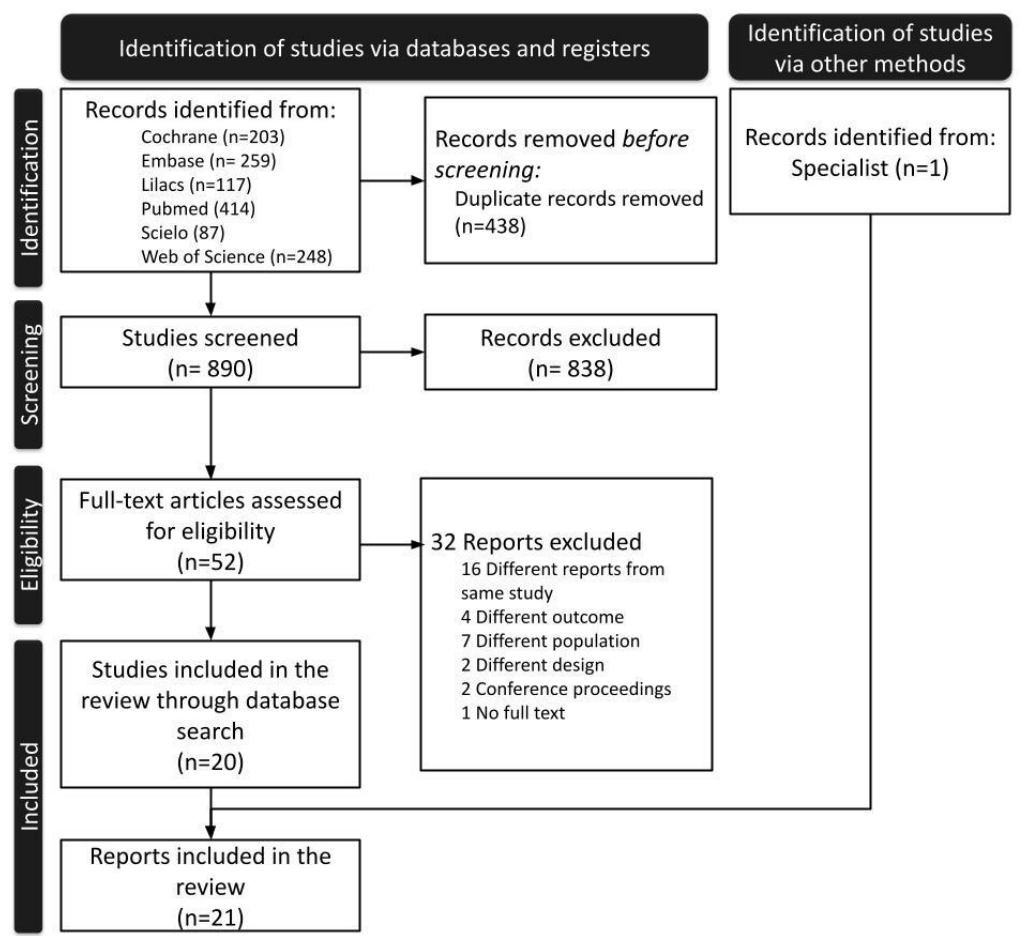
Vigilancia, promoción  
y atención a personas  
con enfermedades crónicas

# Prevalence of Gestational Diabetes Mellitus in Brazil: Systematic review and metanalysis

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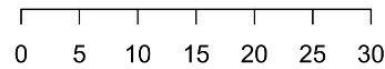
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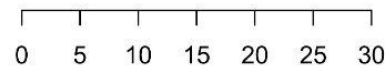
### Forest plot of studies included and metanalysis

Author(year)	Data Collection	Cases	n	Prevalence (%)	95%-CI	Sample frame	Study participants	Sample size	Study subjects description	Data analysis coverage	Valid methods of identification*	Measurement standardized	Appropriate statistical analysis	Adequate response rate	Overall risk of bias
<b>Studies with primary data and laboratory measurement</b>															
<b>Adults, Universal, IADPSG</b>															
Trujillo J (2014)	1991-1995	883	4926	17.9	[16.9 ; 19.0]	Y	Y	Y	Y	Y	Y	Y	Y	Y	Low
Barbieiri P (2016)	2011-2012	151	799	18.9	[16.2 ; 21.8]	N	U	Y	Y	Y	Y	Y	Y	Y	Moderate
Alves JG (2020)	2016-2018	87	518	16.8	[13.7 ; 20.3]	U	Y	U	Y	Y	Y	Y	Y	Y	Low
<b>Random effects model</b>					<b>18.0</b>	<b>[16.0 ; 20.1]</b>									
<b>Prediction interval</b>						<b>[12.6 ; 25.0]</b>									
Heterogeneity: $I^2 = 0\%$ , $p = 0.62$															



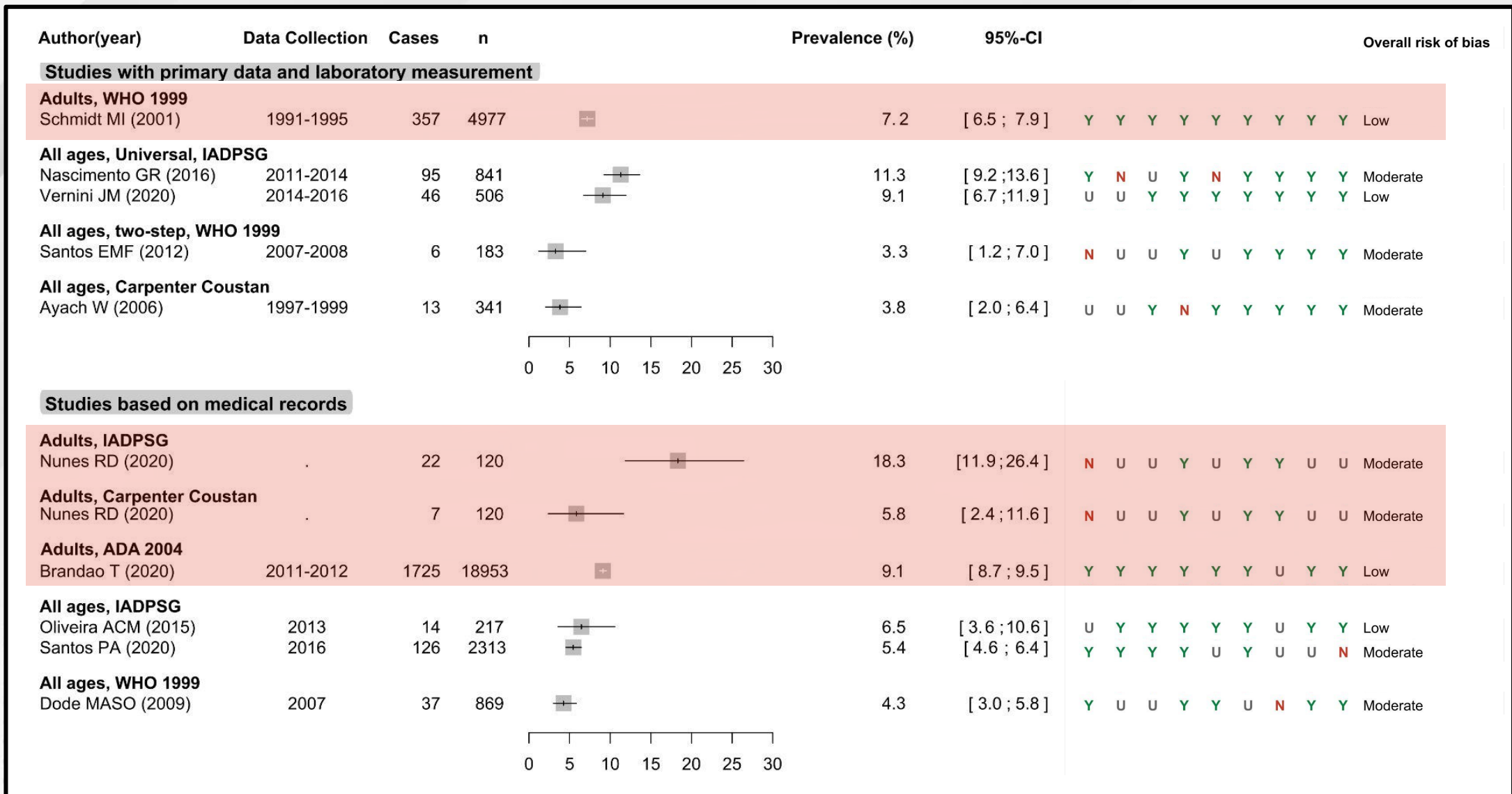
### Studies based on self-report

<b>Self-reported</b>															
Dode MASO (2009)	2004	125	4243	2.9	[2.5 ; 3.5]	Y	Y	Y	Y	Y	U	U	N	Y	Moderate
Dode MASO (2009)	2007-2008	35	869	4.0	[2.8 ; 5.6]	Y	U	U	Y	Y	U	N	Y	Y	Moderate
Lima RJCP (2018)	2010	106	5024	2.1	[1.7 ; 2.5]	Y	U	Y	Y	Y	U	N	Y	Y	Moderate
<b>Random effects model</b>					<b>2.8</b>	<b>[1.5 ; 5.2]</b>									
<b>Prediction interval</b>						<b>[0.1 ; 46.6]</b>									
Heterogeneity: $I^2 = 85\%$ , $p < 0.01$															





Author(year)	Data Collection	Cases	n	Prevalence (%)	95%-CI	Overall risk of bias											
<b>Studies with primary data and laboratory measurement</b>																	
<b>Adults, WHO 1999</b>																	
Schmidt MI (2001)	1991-1995	357	4977		7.2	[6.5 ; 7.9]	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Low
<b>All ages, Universal, IADPSG</b>																	
Nascimento GR (2016)	2011-2014	95	841		11.3	[9.2 ;13.6]	Y	N	U	Y	N	Y	Y	Y	Y	Y	Moderate
Vernini JM (2020)	2014-2016	46	506		9.1	[6.7 ;11.9]	U	U	Y	Y	Y	Y	Y	Y	Y	Y	Low
<b>All ages, two-step, WHO 1999</b>																	
Santos EMF (2012)	2007-2008	6	183		3.3	[1.2 ; 7.0]	N	U	U	Y	U	Y	Y	Y	Y	Y	Moderate
<b>All ages, Carpenter Coustan</b>																	
Ayach W (2006)	1997-1999	13	341		3.8	[2.0 ; 6.4]	U	U	Y	N	Y	Y	Y	Y	Y	Y	Moderate
<b>Studies based on medical records</b>																	
<b>Adults, IADPSG</b>																	
Nunes RD (2020)	.	22	120		18.3	[11.9 ;26.4]	N	U	U	Y	U	Y	Y	U	U	U	Moderate
<b>Adults, Carpenter Coustan</b>																	
Nunes RD (2020)	.	7	120		5.8	[2.4 ;11.6]	N	U	U	Y	U	Y	Y	U	U	U	Moderate
<b>Adults, ADA 2004</b>																	
Brandao T (2020)	2011-2012	1725	18953		9.1	[8.7 ; 9.5]	Y	Y	Y	Y	Y	Y	U	Y	Y	Y	Low
<b>All ages, IADPSG</b>																	
Oliveira ACM (2015)	2013	14	217		6.5	[3.6 ;10.6]	U	Y	Y	Y	Y	Y	U	Y	Y	Y	Low
Santos PA (2020)	2016	126	2313		5.4	[4.6 ; 6.4]	Y	Y	Y	Y	U	Y	U	U	N	Y	Moderate
<b>All ages, WHO 1999</b>																	
Dode MASO (2009)	2007	37	869		4.3	[3.0 ; 5.8]	Y	U	U	Y	Y	U	N	Y	Y	Y	Moderate



**Diagnostic criteria of GDM **varied substantially****

↑ IADPSG ↑ primary laboratory data ↑ adult women  
↓ self-report ↓ adolescents.

**we **could not** describe the prevalence rates  
according to some characteristics of the participants,  
like nutritional status (higher BMI)**





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