

Prevalence and factors associated with adult diabetes mellitus in the African Great Lakes Region: a systematic review and meta-analysis

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Available online: <https://www.panafrican-med-journal.com/content/article/54/127/full/>

Content

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Moderator	Category	Coefficient*	95% CI	p-value
Diagnostic criterion	Self-reported diagnosis only (reference)	-	-	-
	FPG + RBG (combined glucose measures)	0.146	[0.001; 0.291]	0.0478
	FPG alone (fasting plasma glucose)	0.131	[0.010; 0.253]	0.0344
	HbA1c ($\pm$ other criterion)	0.137	[-0.013; 0.288]	0.0732
	Not clearly specified / not defined	0.147	[0.006; 0.289]	0.0412
	OGTT ($\pm$ other criterion)	0.154	[0.003; 0.304]	0.0458
	RBG alone (random blood glucose)	0.161	[0.003; 0.320]	0.0461
	Omnibus test of moderator (QM)	QM = 6.47, df = 6	R ² = 0.9%	0.3731
JBI quality score (continuous)	Intercept	0.309	[0.162; 0.457]	< 0.001
	JBI score (per 1-point increase)	-0.003	[-0.022; 0.017]	0.7880
	Omnibus test of moderator (QM)	QM = 0.07, df = 1	R² = 0%	0.7880
Study setting	Community-based (reference)	-	-	-
	Enterprise/workplace-based	0.002	[-0.122; 0.125]	0.9808
	Hospital-based	0.089	[0.001; 0.177]	0.0484
	Omnibus test of moderator (QM)	QM = 3.97, df = 2	R² = 3.3%	0.1374
Country	Kenya (reference)	-	-	-
	Democratic Republic of Congo	-0.011	[-0.121; 0.099]	0.8431
	Rwanda	0.402	[0.146; 0.657]	0.0021
	Tanzania	0.028	[-0.053; 0.108]	0.4998
	Uganda	-0.025	[-0.119; 0.070]	0.6125
	Omnibus test of moderator (QM)	QM = 11.05, df = 4	R² = 11.4%	0.0260
Publication year (continuous)	Intercept	-1.510	[-22.473; 19.453]	0.8877
	Year (per 1-year increase)	0.001	[-0.009; 0.011]	0.8664
	Omnibus test of moderator (QM)	QM = 0.03, df = 1	R² = 0%	0.8664
Sample size (log-transformed, continuous)	Intercept	0.585	[0.391; 0.779]	< 0.001
	log(sample size)	-0.043	[-0.071; -0.015]	0.0025
	Omnibus test of moderator (QM)	QM = 9.18, df = 1	R² = 13.0%	0.0025

*: coefficients are expressed on the Freeman-Tukey double arcsine-transformed scale (consistent with the transformation used in the primary meta-analysis of prevalence) and are not directly interpretable as percentage-point differences; QM: omnibus test statistic for the moderator (chi-square distributed); df: degrees of freedom; R²: proportion of heterogeneity in the transformed effect size explained by the moderator. Bold reference categories were used as the baseline level for each categorical moderator