

Table S1. The risk o bias of RCTs by means of the Cochrane Collaboration's tool.

Author, Year	Sequence generation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data addressed	Selective reporting	Other bias	Overall risk-of-bias
Ferolla, S.M; 2016	SC	H	L	L	L	L	SC	H
Sajjad, A.; 2005	SC	SC	H	H	L	L	L	H
Ghetti, F.D.F.; 2019	L	L	SC	H	L	L	SC	H
Guimares, V.M.; 2020	H	SC	H	H	L	L	SC	H

H - High risk of bias; L- Low risk of bias; SC - Some concerns

Table S2. Newcastle–Ottawa Scale scoring for cohort studies.

Author, Year	Summary: Selection bias (max. four stars)	Summary: Comparability (max. two stars)	Summary: Outcome (max. three stars)	Total No. Stars (Max. nine stars)
Yilmaz, Y; 2014	4	2	1	7

Table S3. Newcastle–Ottawa Scale scoring for case–control studies.

Author, Year	Summary: Selection bias (max. four stars)	Summary: Comparability (max. two stars)	Summary: Exposure (max. three stars)	Total No. Stars (Max. nine stars)
Ghoshal U.C.; 2017	3	0	2	5
Jun D.W.; 2010	2	0	2	4
Kapil S.; 2016	2	0	1	3
Miele L.; 2009	4	1	3	8
Sabate J-M.; 2008	3	1	2	6
Shanab A.A.; 2011	4	1	2	7
Shi H.; 2021	2	1	0	3
Wigg A.J.; 2001	3	1	3	7

Table S4. Newcastle–Ottawa Scale scoring for cross–sectional studies.

Author, Year	Summary: Selection bias (max. five stars)	Summary: Comparability (max. two stars)	Summary: Outcome (max. three stars)	Total No. Stars (Max. ten stars)
Fitriakusumah, Y.; 2019	4	2	1	7
Lira M; 2020	3	2	3	8
Mikolasevic, I.; 2021	3	2	3	8
De Oliveira, J.M.; 2020	2	0	3	5
Rafiei, R.; 2018	5	2	3	10

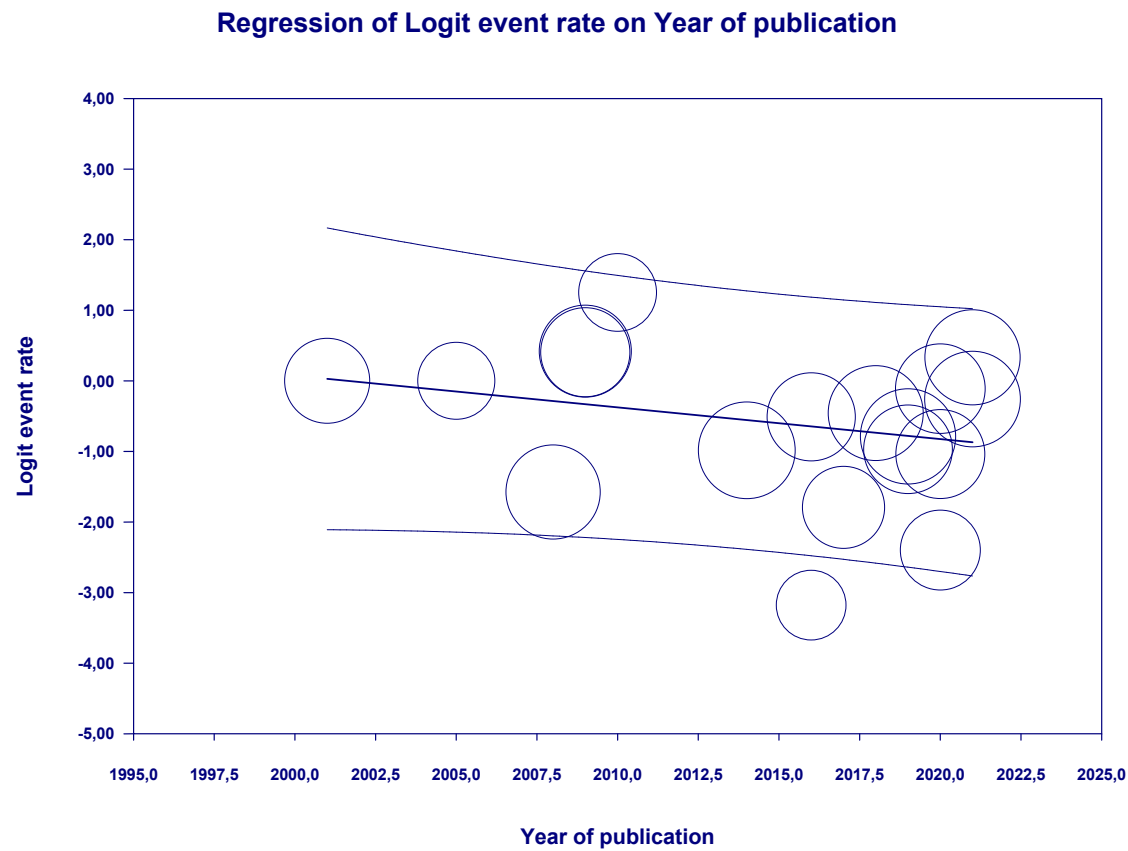


Figure S1. The meta-regression on log risk ratio of SIBO prevalence depending on year of publication (coefficient= -0.0450, $p=0.1675$)

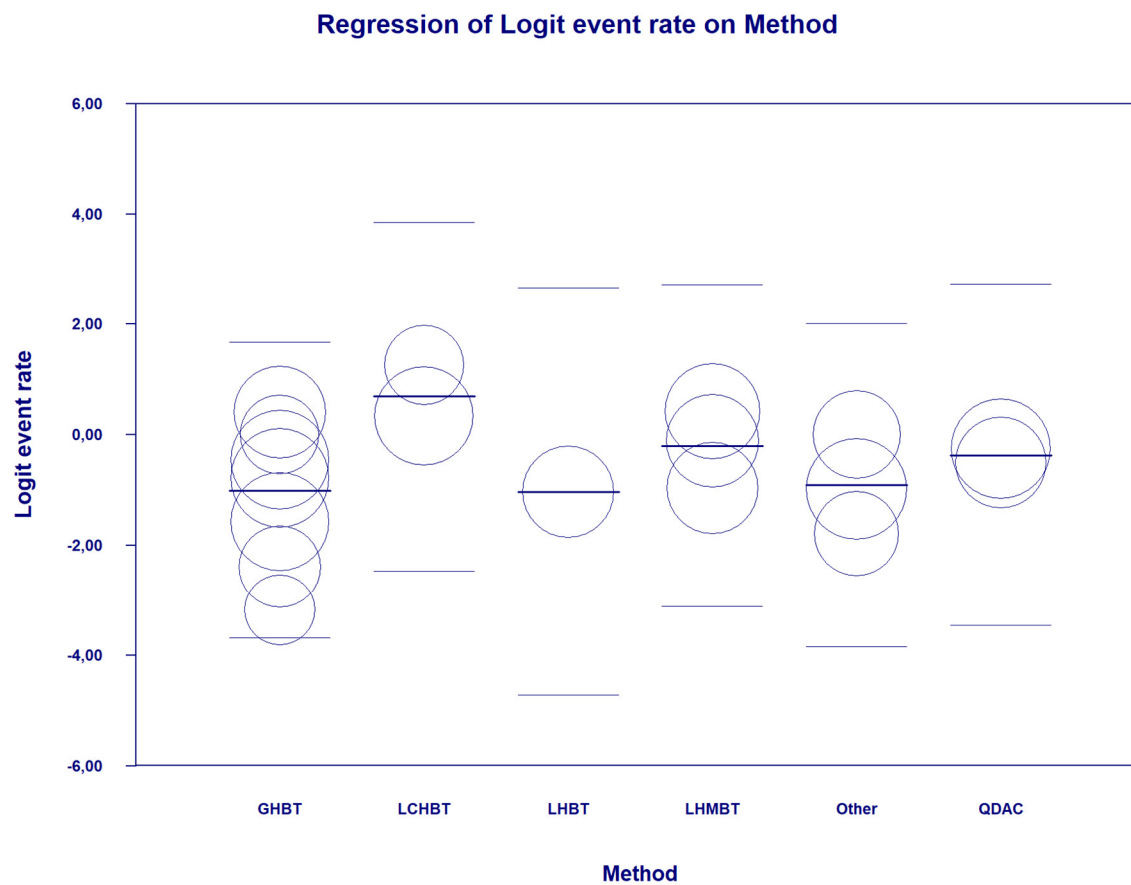


Figure S2. The meta-regression on log risk ratio of SIBO prevalence depending on testing method ($p=0.2993$); GHBT - Glucose Hydrogen Breath Test; LCHBT - Lactose Hydrogen Breath Test; LHBT - Lactulose Hydrogen Breath Test; LHMBT - Lactulose Hydrogen-Methane Breath Test; QDAC - Quantitative Duodenal Aspirate Culture