Leave-One-Out Meta-Analysis

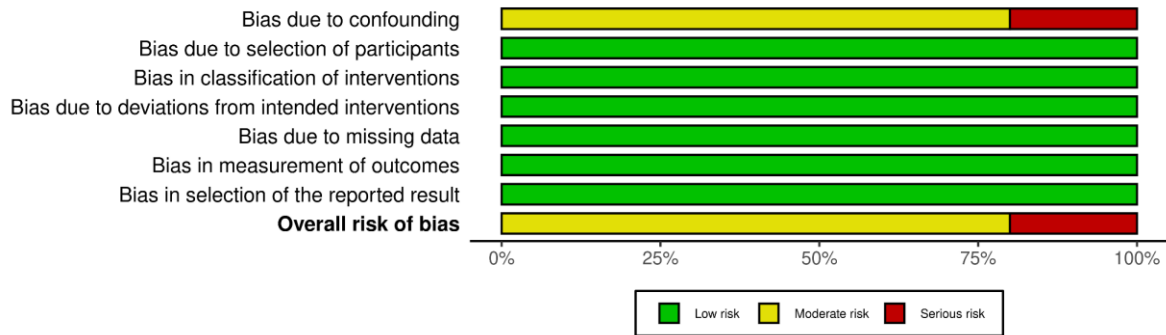| Excluded Study	Overall Effect Size (RR)	95% CI	I²
None (All included)	2.21	[1.32, 3.71]	75.4
Kellerman 2009	2.13	[1.23, 3.71]	77
Jensen 2010	2.24	[1.31, 3.82]	78.1
Jiang 2010	2.16	[1.24, 3.77]	77.3
Krynitz 2012	2.2	[1.27, 3.84]	77.8
Na 2013	2.07	[1.21, 3.55]	63.3
Robbins 2015	2.8	[2.12, 3.70]	0
Secnikova 2015	2.19	[1.26, 3.82]	77.8
Fattouh 2017	2.45	[1.41, 4.25]	77.4
Holmberg 2019	2.08	[1.21, 3.59]	76.2
Liu 2023	2.09	[1.23, 3.55]	76.7

GRADE (Certainty of Evidence)

Outcomes	Effect Size (95% CI)	№ of Trials	Certainty of the evidence (GRADE)
Relative Risk of Melanoma	RR 2.21 (1.32 to 3.71)	(10 Observational Studies)	⊕⊕⊕◯[a,b] Low

a. High heterogeneity (I2=75%)
b. Large magnitude of effect (RR>2)

ROBIN-I Tool for Risk of Bias

Risk of bias domains

Study	D1	D2	D3	D4	D5	D6	D7	Overall
Krynitz et al., 2012	✗	+	+	+	+	+	+	✗
Jensen et al., 2010	✗	+	+	+	+	+	+	✗
Jiang et al., 2010	−	+	+	+	+	+	+	−
Kellerman et al., 2009	−	+	+	+	+	+	+	−
Na et al., 2013	−	+	+	+	+	+	+	−
Robbins et al., 2015	−	+	+	+	+	+	+	−
Secnikova et al., 2015	−	+	+	+	+	+	+	−
Fattouh et al., 2017	−	+	+	+	+	+	+	−
Holmberg et al., 2019	−	+	+	+	+	+	+	−
Liu et al., 2023	−	+	+	+	+	+	+	−

Domains:
D1: Bias due to confounding.
D2: Bias due to selection of participants.
D3: Bias in classification of interventions.
D4: Bias due to deviations from intended interventions.
D5: Bias due to missing data.
D6: Bias in measurement of outcomes.
D7: Bias in selection of the reported result.

Judgement
✗ Serious
− Moderate
+ Low

Egger's Test for Publication Bias

Regression test for Funnel plot asymmetry ("Egger's test") ▼

	z	p
sei	0.908	0.364

Plot

Funnel Plot