

Supplementary Table 1 Risk of Bias for Randomized Controlled Trials (RoB 2.0)

Study	Random ization	Deviations from intervention	Missing data	Measurement	Selective reporting	Overall risk
Nedir 2012	Low	Low	Unknown	Low	Low	Low
Marković 2015	Low	Low	Low	Low	Low	Low
Nedir 2016	Low	Low	Unknown	Low	Low	Low
Qian 2020	Low	Low	Low	Low	Low	Low

Supplementary Table 2 Risk of Bias for Non-Randomized Studies (ROBINS-I)

Study	Confounding	Select ion	Classifi cation	Deviat ions	Missin g data	Measur ement	Repor ting	Over all risk
Brizuela 2014	Low	Low	Low	Low	Low	Low	Low	Low
Zill 2016	Low	Unkno wn	Low	Low	Low	Low	Unkno wn	Low
French 2016	Unkno wn	Unkno wn	Low	Low	Unkno wn	Low	Low	Unkn own
Si 2016	Low	Unkno wn	Low	Low	Low	Low	Low	Low
Rawat 2019	Unkno wn	Low	Low	Low	Low	Low	Unkno wn	Low
Rammelsberg 2020	Unkno wn	Low	Low	Low	Low	Low	Low	Low
Karaca 2022	Low	Unkno wn	Low	Low	Low	Low	Low	Low
Alzoubi 2024	Low	Low	Low	Low	Low	Low	Low	Low
Albadani 2024	Low	Unkno wn	Low	Low	Low	Low	Low	Low
Mazor 2024	Low	Low	Low	Low	Low	Low	Unkno wn	Low

Supplementary Table 3 GRADE Assessment of the Certainty of Evidence

Outcome	No. of Studies	Sites (N)	Events	Pooled Proportion (95% CI)	Heterogeneity	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication Bias	Total Downgrades	Final Certainty
Schneiderian membrane perforation	14	2119	95	1.09% (0.19% – 5.97%)	80.6%	Not downgraded	Downgraded (-1)	Not downgraded	Not downgraded	Downgraded (-1)	-2	Very low
Early implant failure <=12 months	11	711	19	1.15% (0.22% – 5.75%)	0.0%	Not downgraded	Not downgraded	Downgraded (-1)	Downgraded (-1)	Downgraded (-1)	-2	Very low
Post-operative complications (sinusitis/epistaxis)	14	2119	0	0% (0% – 1.0%)	0.0%	Not downgraded	Not downgraded	Downgraded (-1)	Downgraded (-1)	Not downgraded	-1	Very low