

**Repeat Gamma Knife Radiosurgery for Recurrent Trigeminal Neuralgia:
A Systematic Review and Meta-Analysis**

Supplementary Material

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Table S1. Search Strategy

Database	Query	Results
PubMed	(("repeat" OR "recurrent"OR "salvage") AND (radiosurgery OR "stereotactic radiosurgery" OR "Gamma Knife" OR GKRS OR "gamma-knife" AND trigeminal))	237
Scopus		142
MEDLINE		996
Web of Science	((("repeat" OR "recurrent"OR "salvage") AND ("Gamma Knife" OR GKRS OR "gamma-knife" AND trigeminal))	1,746

Figure S1. BNI Score After Prior Treatment Analysis. A) Forest plot. B) Leave-one-out analysis.

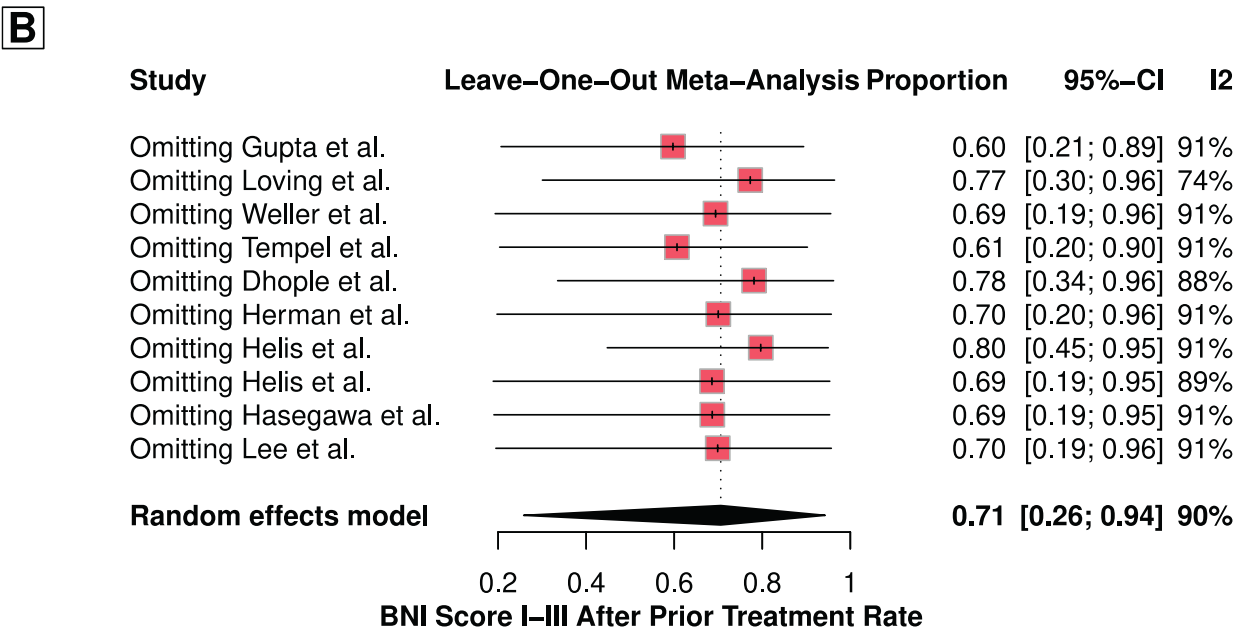
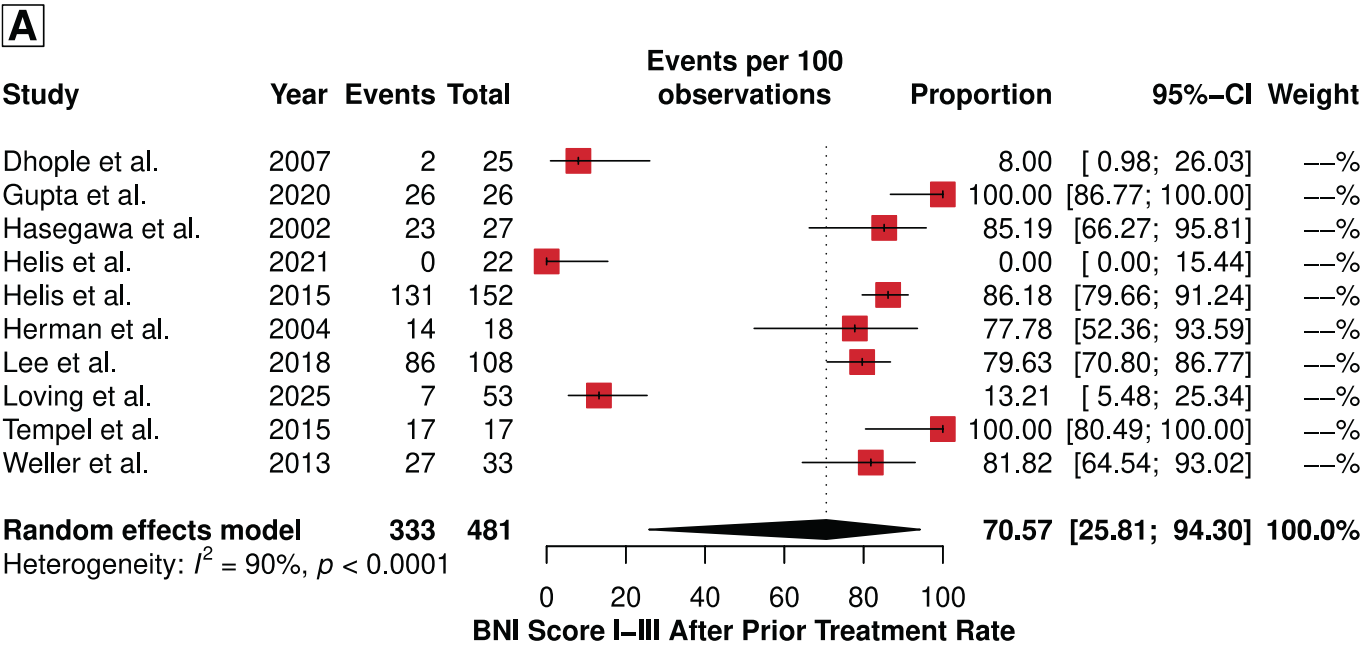


Figure S2. BNI Score After Latest Treatment Analysis. A) Forest plot. B) Leave-one-out analysis.

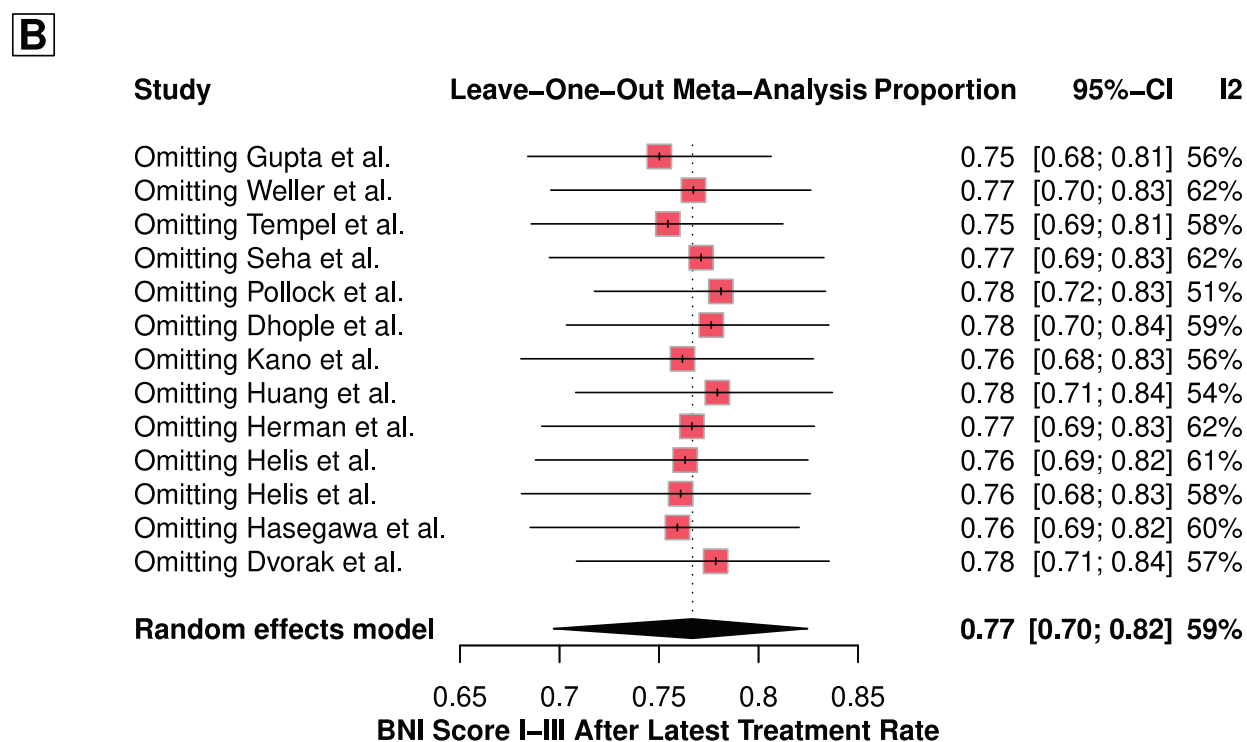
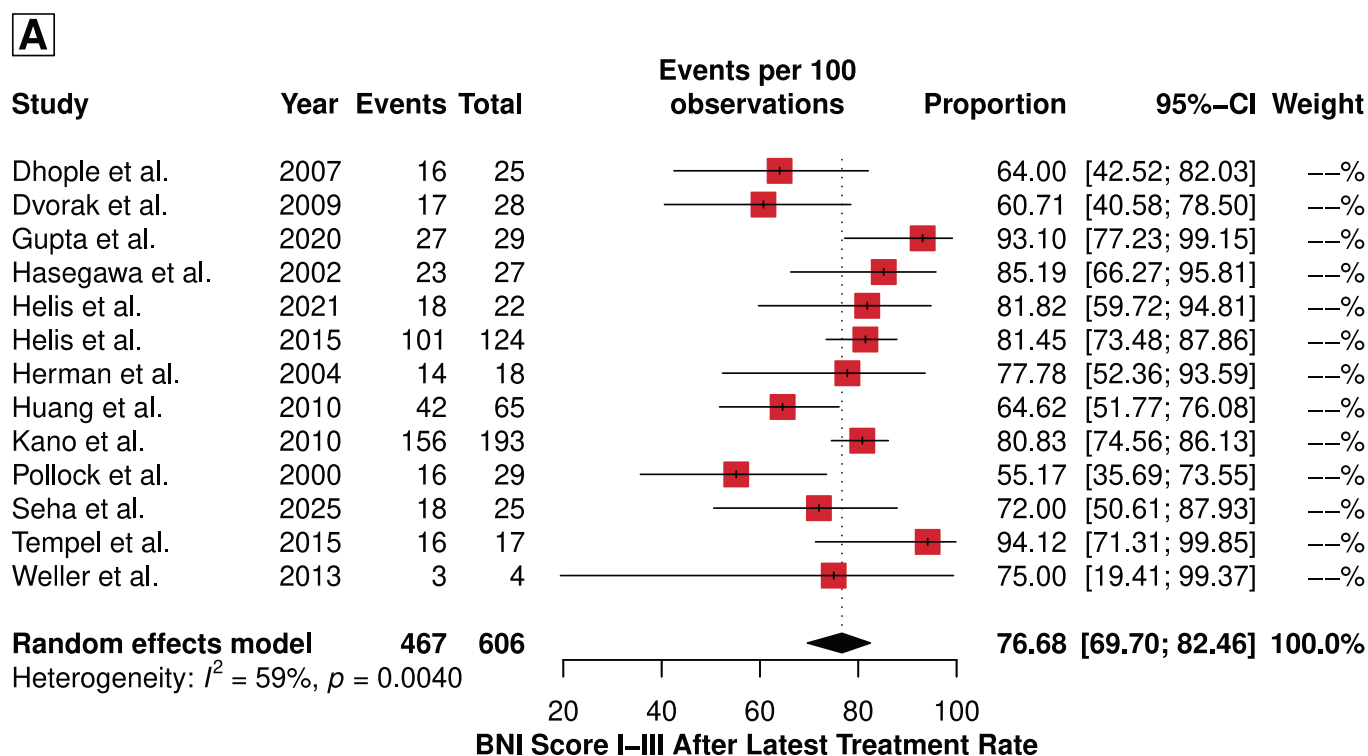
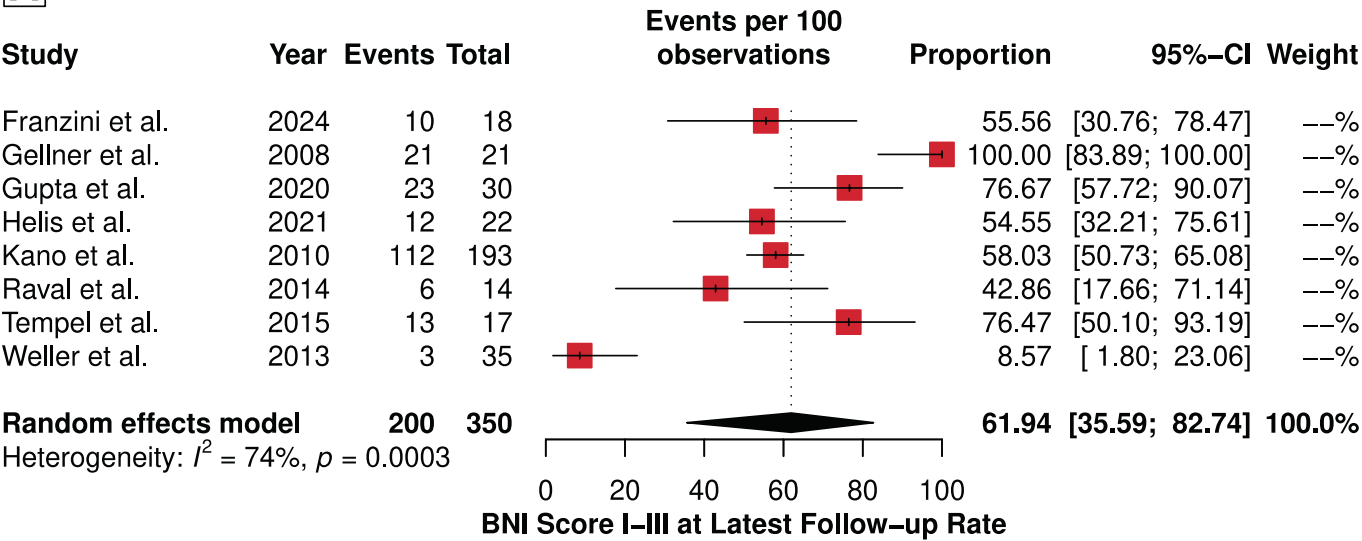


Figure S3. BNI Score After Latest Follow-up Analysis. A) Forest plot. B) Leave-one-out analysis.

A



B

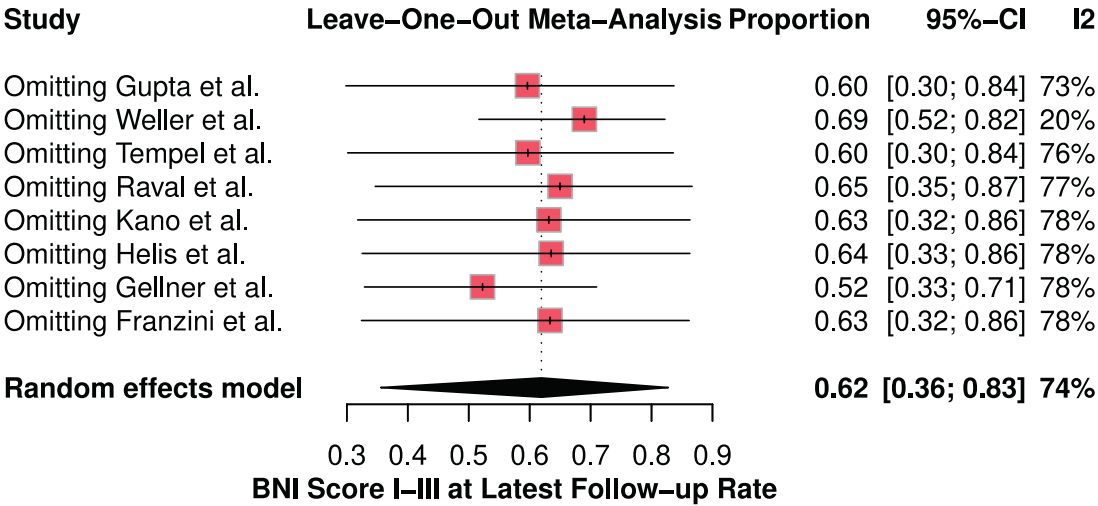


Figure S4. Pain Relief Analysis. A) Forest plot. B) Leave-one-out analysis.

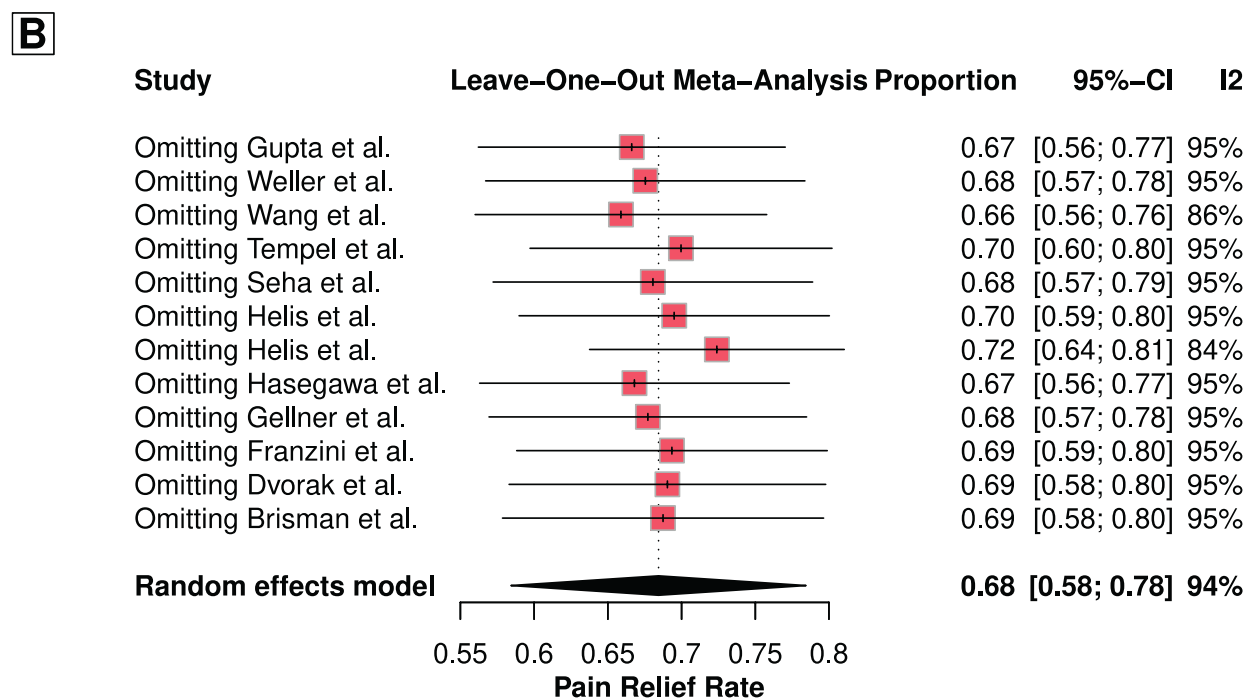
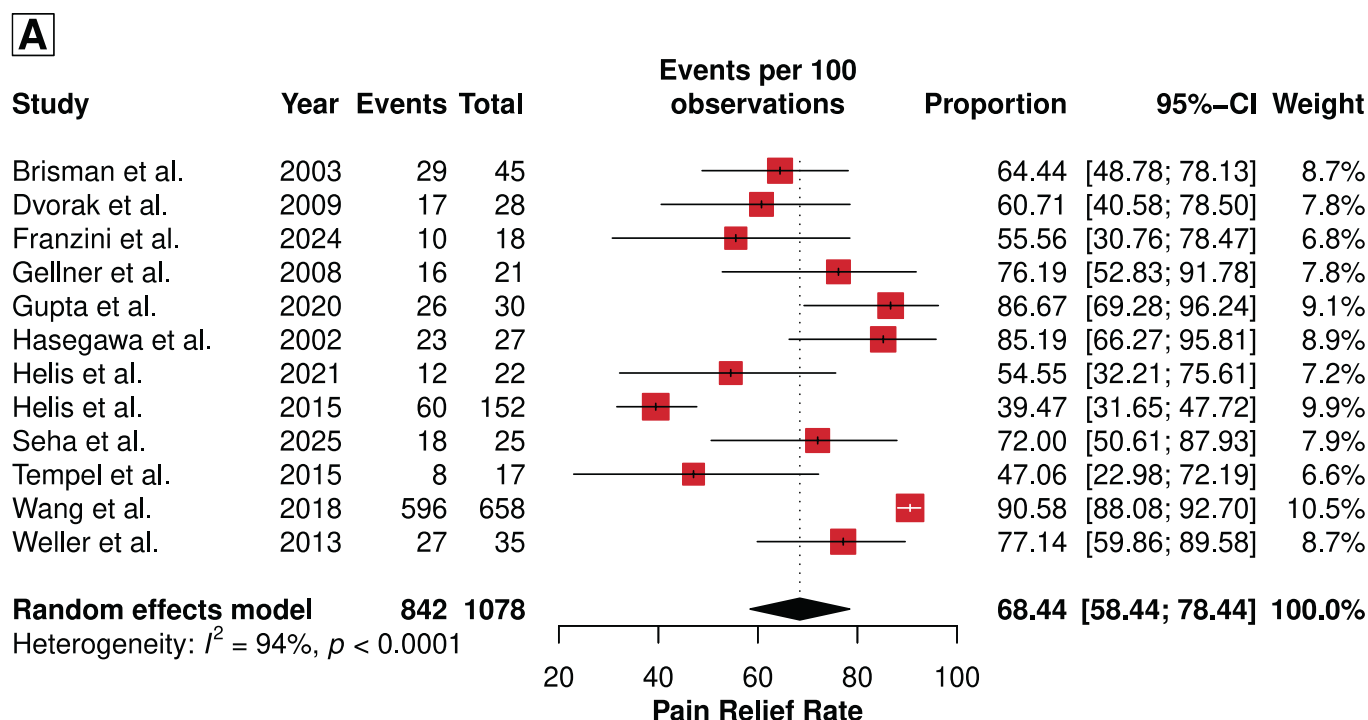
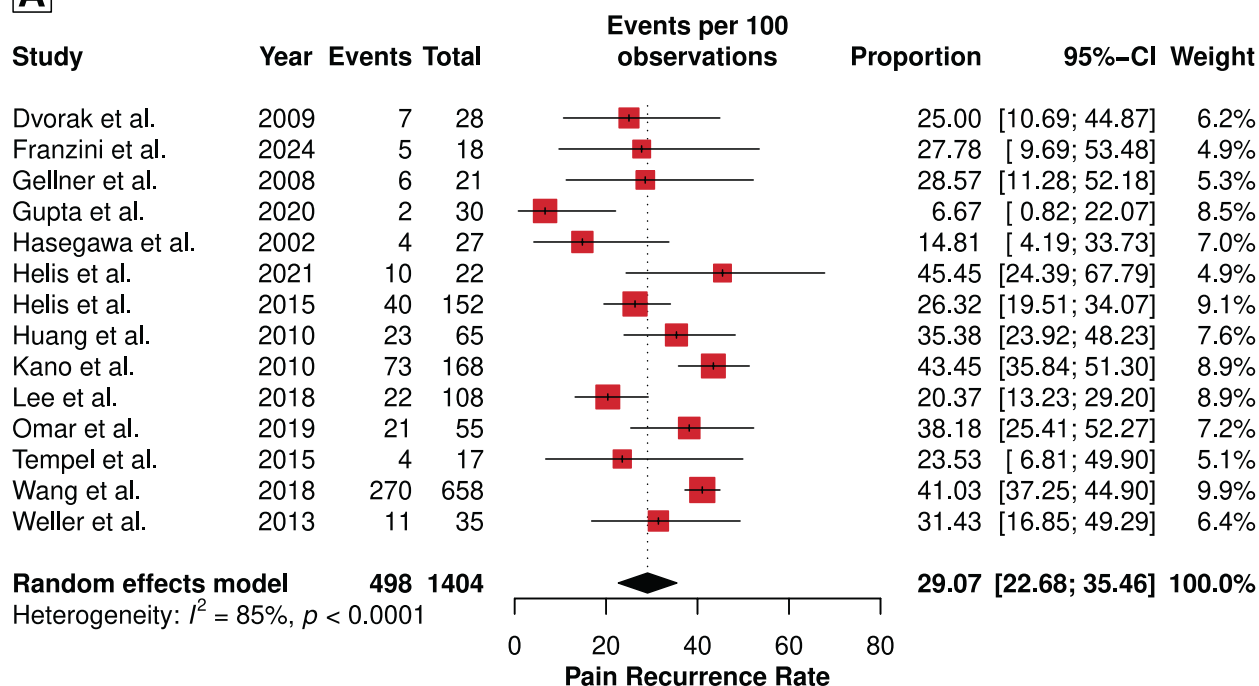


Table S2. Pain Relief Meta-Regression Analysis.

Variable	N of studies	Effect Estimate	p-value	I ²	Test for Residual Heterogeneity
Intercept	K= 6	1.2545	0.1757	91.77%	P < .0001
AgeFS		-0.0086	0.5682		
Intercept	K= 8	0.4518	0.5581	80.61%	P < .0001
AgeLS		0.0022	0.8433		
Intercept	K= 6	0.6416	<.0001	55.61%	P < .0001
PainTime		0.0012	0.3593		
Intercept	K= 8	0.5256	0.0019	81.39%	P < .0001
LastGKTime		0.0047	0.4093		
Intercept	K= 10	0.7189	0.0085	80.31%	P < .0001
Dose		-0.0011	0.7857		

Figure S5. Pain Recurrence Analysis. A) Forest plot. B) Leave-one-out analysis.

A



B

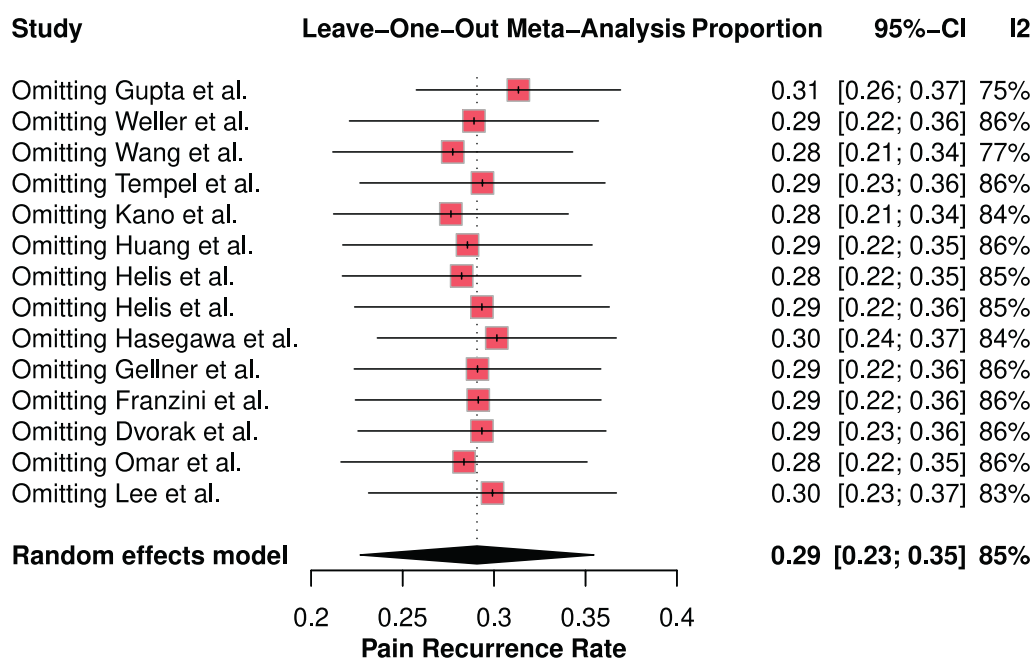
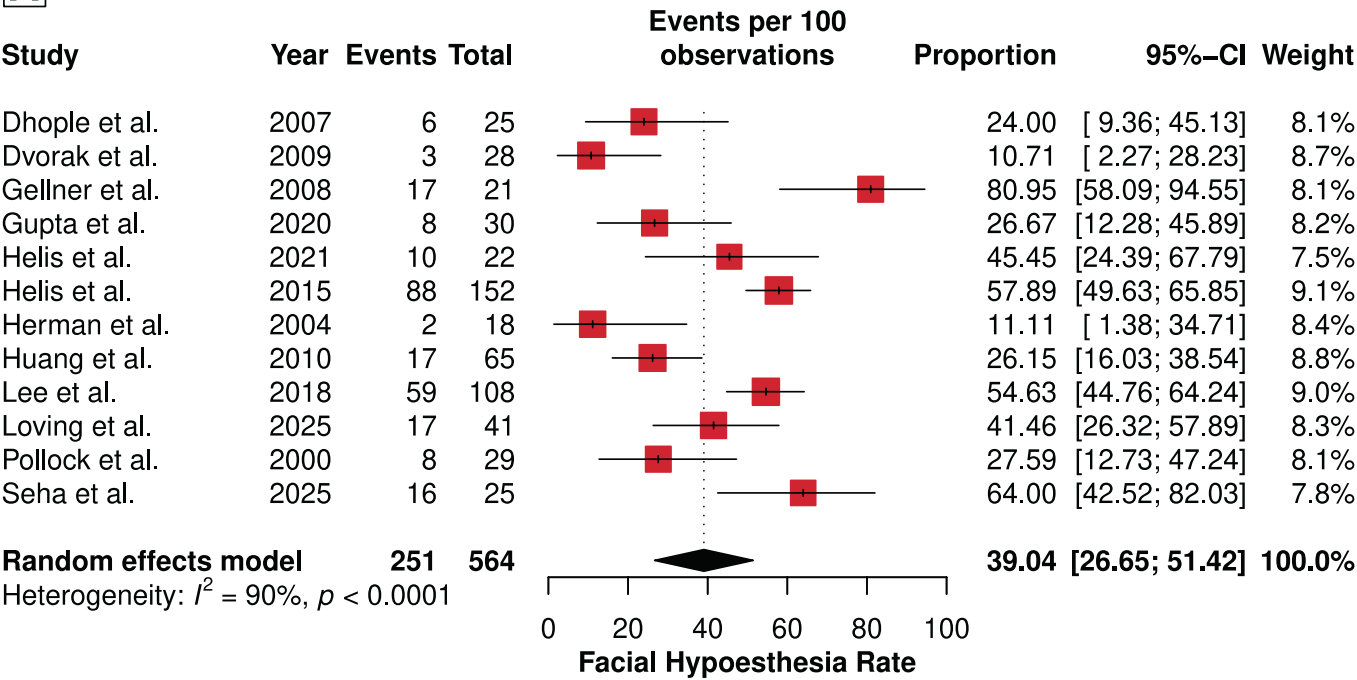


Table S3. Pain Recurrence Meta-Regression Analysis.

Variable	N of studies	Effect Estimate	p-value	I ²	Test for Residual Heterogeneity
Intercept	K= 9	0.9444	0.0491	82.93%	P < .0001
AgeFS		-0.0109	0.1632		
Intercept	K= 7	0.6611	0.2484	73.20%	P < .0001
AgeLS		-0.0057	0.4857		
Intercept	K= 8	0.3110	0.0192	84.40%	P < .0001
PainTime		-0.0004	0.7474		
Intercept	K= 10	0.1714	0.1255	75.12%	P < .0001
LastGKTime		0.0035	0.2653		
Intercept	K= 10	0.2766	0.2513	78.48%	P < .0001
Dose		-0.0000	0.9889		

Figure S6. Face Hypoesthesia Analysis. A) Forest plot. B) Leave-one-out analysis.

A



B

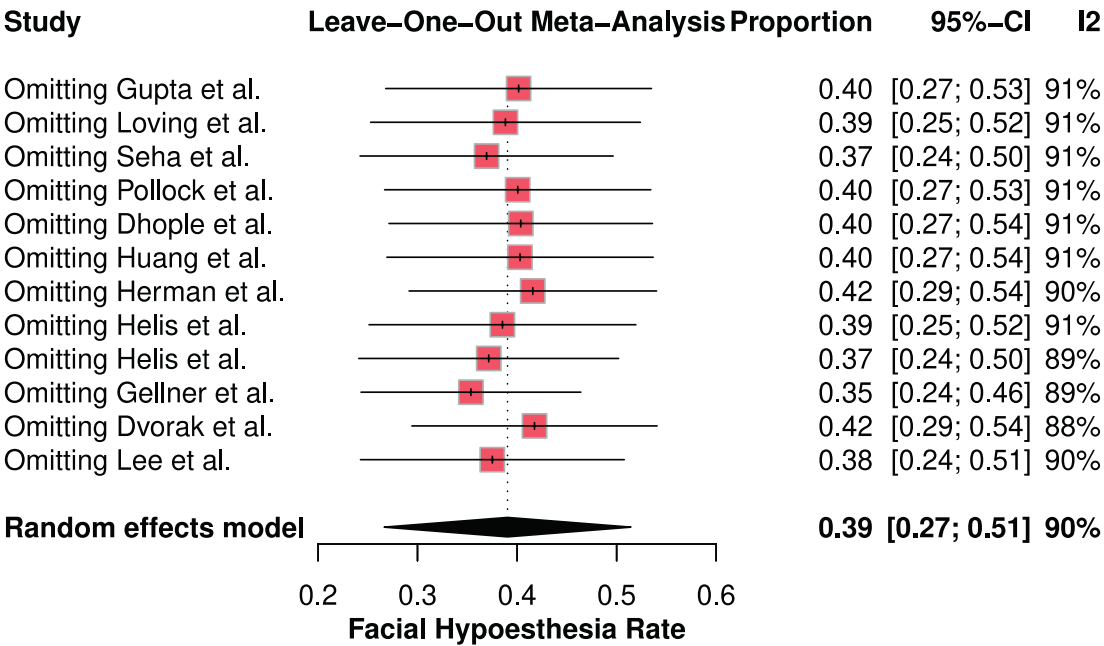


Figure S7. Funnel Plots. A) BNI Score After Prior Treatment. B) BNI Score After Latest Treatment. C) Pain Relief. D) Pain Recurrence. E) Facial Hypoesthesia.

