

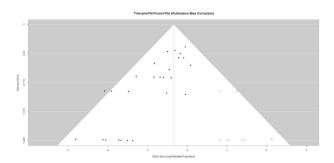
Figure S1 Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flowchart.

Author, year	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Total	Quality
Aftab, 2017	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Arnold, 2023	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Beckmann, 2020	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Burysz, 2024	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Charchyan, 2020	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Coselli, 2024	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	17	High
Cuko, 2023	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	Moderat
El-SayedAhmad, 2019	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	13	Moderate
El-SayedAhmad, 2016	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	13	High
Fiorentino, 2021	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Furutachi, 2023	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	16	High
Jakob, 2017	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Kim, 2024	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Koizumi, 2022	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Koizumi, 2018	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Kozlov, 2024	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Kremer, 2019	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Liebrich, 2021	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	15	High
Luo, 2021	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Masiello, 2022	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	15	High
Morisaki, 2022	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Panfilov, 2025	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Qi, 2019	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Sun, 2010	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	15	High
Sun, 2009	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	15	High
Suzuki, 2023	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Verhoye, 2014	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High
Zhong, 2018	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	16	High

Table S2 Modi	Table S2 Modified Canadian National Institute of Health Economics (CNIHE) quality appraisal checklist					
Criteria No.	Criterion definition					
1	Is the hypothesis/aim/objective of the study stated in the abstract, introduction, or methods section? (/1)					
2	Are the characteristics of the patients included in the study clearly described? (/1)					
3	Were the cases collected in more than one centre? (/1)					
4	Are the eligibility criteria (inclusion and exclusion criteria) for entry into the study clearly stated? (/1)					
5	Were patients recruited consecutively? (/1)					
6	Did participants enter the study at a similar point in the disease? (/1)					
7	Was the intervention of interest clearly described? (/1)					
8	Were additional interventions (co-interventions) reported in the study? (/1)					
9	Are the outcome measures established a priori? (/1)					
10	Were the relevant outcomes measured with appropriate objective and/or subjective methods? (/1)					
11	Were the relevant outcomes measured before and after the intervention? (/1)					
12	Were the statistical tests used to assess the relevant outcomes appropriate? (/1)					
13	Was the length of follow-up clearly described/reported? (/1)					
14	Was the length of follow-up clearly described/reported? (/1)					
15	Does the study provide estimates of the random variability in the data analysis of relevant outcomes? (/1)					
16	Are the adverse events related with the intervention reported? (/1)					
17	Are the conclusions of the study supported by results? (/1)					
18	Are both competing interests and sources of support for the study reported? (/1)					



Figure S2 Risk of bias assessment of included non-randomized studies utilizing the ROBINS-I V2 tool. ROBINS-I V2, Risk Of Bias in Non-randomized Studies of Interventions, Version 2.



 $\begin{tabular}{ll} \textbf{Figure S3} Trim and fill funnel plot analysis of 30-day mortality and fET effect \\ \end{tabular}$

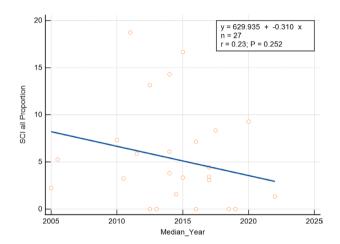


Figure S5 Meta-regression analysis of rate of SCI in relation to median year of operation.

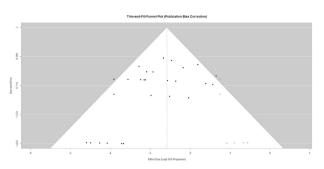


Figure S4 Trim and fill funnel plot analysis of spinal cord injury and fET effect.

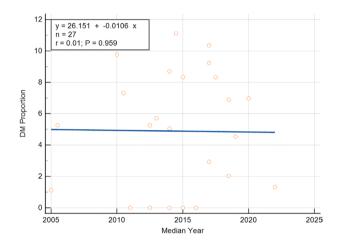


Figure S6 Meta-regression analysis of rate of 30DM in relation to median year of operation.