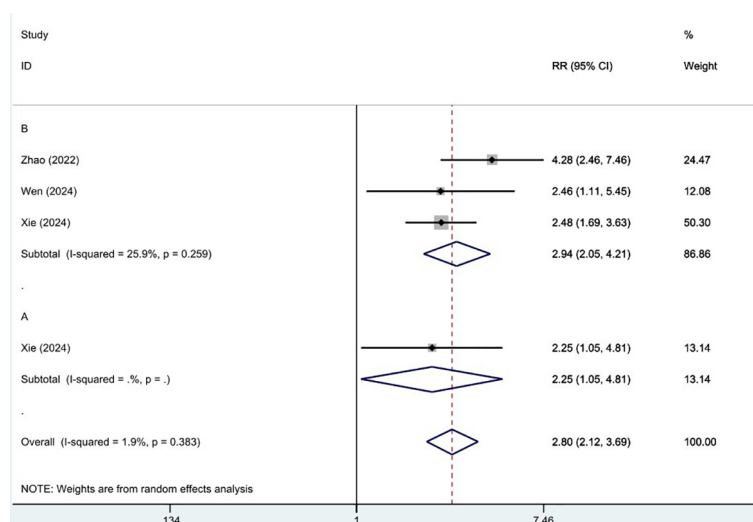


Table S1 Detailed results of NOS score

Author	Year	Selection				Comparability	Outcome measurement			Score
		Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Outcome of interest	Comparability of cohorts*	Assessment of outcome	Time of follow-up	Adequacy of follow-up	
Zhao	2022	1	1	1	1	0	1	1	1	7
Xu	2023	1	1	1	1	0	1	1	1	7
Yang	2023	0	1	1	1	0	1	1	1	6
Wen	2024	1	1	1	1	0	1	1	1	7
Xie	2024	1	1	1	1	1	1	1	1	8
Xie	2024	1	1	1	1	1	1	1	1	8
Zhong	2024	0	1	1	1	0	1	1	1	6
Wang	2026	1	1	1	1	0	1	1	1	7

NOS: Newcastle-Ottawa Scale. *, a maximum of two stages could be given for the Comparability.

Search	Actions	Details	Query	Results	Time
#9	...	>	Search: ((systemic inflammatory response index) OR (SIRI)) AND ((aortic dissection) OR (dissection of aorta)) Sort by: Most Recent	22	20:32:51
#8	...	>	Search: (aortic dissection) OR (dissection of aorta) Sort by: Most Recent	38,313	20:32:35
#7	...	>	Search: (systemic inflammatory response index) OR (SIRI) Sort by: Most Recent	8,309	20:31:26

Figure S1 Specific search strategy in the PubMed.**Figure S2** Subgroup analysis about the association of systemic inflammation response index with risk of postoperative aorta-related adverse event among patients with aortic dissection undergoing the surgery.

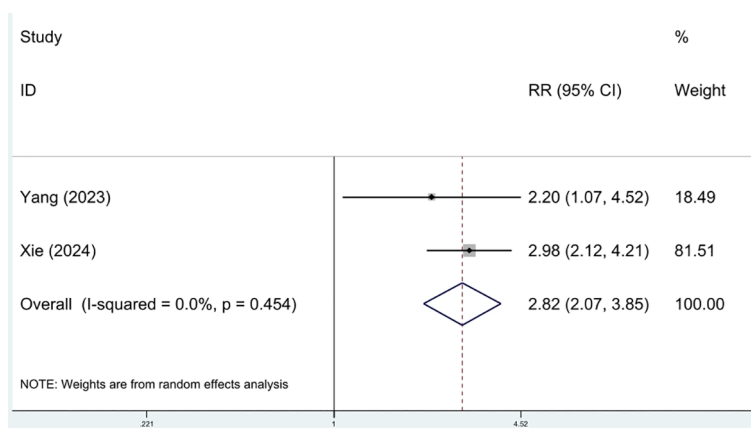


Figure S3 Association of systemic inflammation response index with risk of postoperative acute kidney injury among patients with aortic dissection undergoing the surgery.

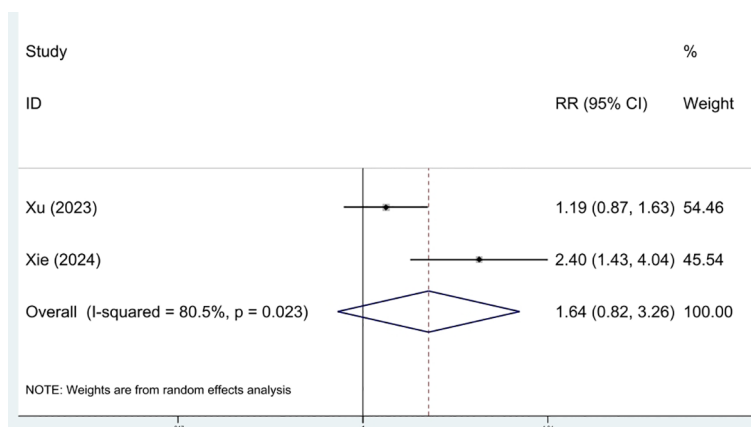


Figure S4 Association of systemic inflammation response index with risk of postoperative prolonged intubation among patients with aortic dissection undergoing the surgery.

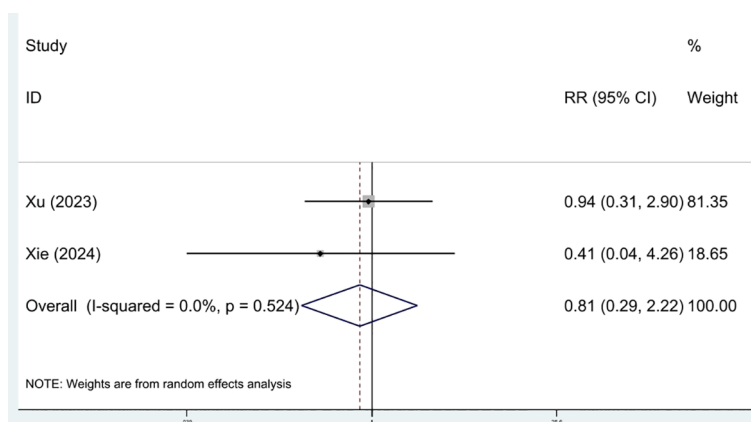


Figure S5 Association of systemic inflammation response index with risk of postoperative stroke among patients with aortic dissection undergoing the surgery.