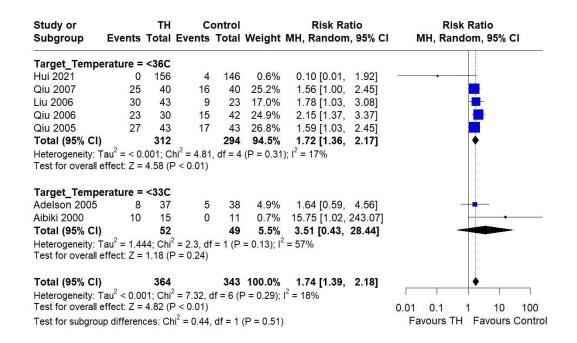
Supplementary material

1. Study Selection Criteria

Inclusion criteria Exclusion criteria Studies applying therapeutic hypothermia within 2.5 hours post-injury, maintained for 48 hours, or using Studies involving patients with perioperative prophylactic hypothermia traumatic brain injury, ischemic stroke, or acute-phase treatment following Studies using partial cooling methods cerebral hemorrhage alone Studies that performed therapeutic Studies performing hypothermia through hypothermia (using surface cooling or cold saline infusion or lavage techniques intravascular cooling) Studies involving patients with baseline Studies with a comparison group hypothermia (<36°C) receiving conventional treatment or Studies where clear outcome extraction maintaining normothermia (normal body is not possible temperature) Laboratory or animal studies (in vitro or Studies reporting at least one animal studies) predefined medical outcome Non-original studies (e.g., reviews, Limited to RCTs editorials, letters, opinion pieces) Case reports or case series

2. Forest Plot of Coagulopathy Incidence by Target Temperature in TBI Patient Group



3. Forest Plot of Electrolyte Imbalance Incidence in TBI Patient Group

		TH	C	ontrol		Risk Ratio	Risk Ratio
Study	Events	Total	Events	Total	Weight	MH, Random, 95% CI	MH, Random, 95% CI
Hui 2021	53	156	39	146	30.4%	1.27 [0.90, 1.80]	-
Tang 2017	16	30	7	30	6.8%	2.29 [1.10, 4.74]	-
Qiu 2007	34	40	28	40	62.8%	1.21 [0.95, 1.55]	+
Total (95% CI)		226		216	100.0%	1.29 [1.06, 1.56]	
Total (95% CI) 226 216 100.0% 1.29 [1.06, 1.56] Heterogeneity: $Tau^2 < 0.001$; $Chi^2 = 2.61$, $df = 2$ (P = .27); $I^2 = 23\%$							
Test for overall effect: $Z = 2.58 (P < .01)$							0.5 1 2
							Favours TH Favours Control

Forest Plot of Long-term Neurological Outcomes (GOS, GOSE) by Target Temperature in TBI Patient Group

