

Table S2 Quality evaluation of the eligible studies with Newcastle–Ottawa scale

Study	Selection				Comparability		Outcomes		
	Representative-ness	Selection of non-exposed	Ascertainment of exposure	Outcome not present at start	Comparability on most important factors	Comparability on other risk factors	Assessment of outcome	Long enough follow-up (median ≥ 1 week)	Adequacy (completeness) of follow-up
Bushen <i>et al.</i> 2024	*	*	*	*	*	-	*	*	*
Dhopte <i>et al.</i> 2017	*	*	*	*	*	*	*	*	*
Kahramanlar <i>et al.</i> 2024	*	*	*	*	-	-	*	*	*
Khorasani <i>et al.</i> 2010	*	*	*	*	*	-	*	*	*
Rosanova <i>et al.</i> 2014	*	*	*	*	*	-	*	*	*

*, indicates criterion met; -, indicates significant of criterion not met.

Table S3 Quality evaluation of the eligible studies with Newcastle-Ottawa Scale

Study	Selection				Comparability		Exposure factors		
	Ascertainment of cases	Representative-ness	Selection of controls	Ascertainment of controls	Comparability on most important factors	Comparability on other risk factors	Ascertainment of exposure factors	Methods for identifying exposure factors	Adequacy (completeness) of cases and controls
Agbenorku <i>et al.</i> 2013	*	*	*	*	*	-	*	*	*
Alnjeidi <i>et al.</i> 2022	*	*	*	*	*	-	*	*	*
Chelidze <i>et al.</i> 2016	*	*	*	*	-	-	*	*	*
Fomukong <i>et al.</i> 2019	*	*	*	*	*	-	*	*	*
Gallaher <i>et al.</i> 2020	*	*	*	*	*	-	*	*	*
Grudziak <i>et al.</i> 2017	*	-	*	*	*	-	*	*	*
Güney <i>et al.</i> 2022	*	-	*	*	-	-	*	*	*
Hodgman <i>et al.</i> 2016	*	*	*	*	*	-	*	*	*
Housinger <i>et al.</i> 1993	*	*	*	*	-	-	*	*	*
Ibran <i>et al.</i> 2018	*	*	*	*	-	-	*	*	*
Jeschke <i>et al.</i> 2014	*	-	*	*	-	-	*	*	*
Koenig <i>et al.</i> 2024	*	*	*	*	*	-	*	*	*
Morrow <i>et al.</i> 1996	*	*	*	*	-	-	*	*	*
Purcell <i>et al.</i> 2020	*	*	*	*	*	-	*	*	*
Purcell <i>et al.</i> 2021	*	*	*	*	*	-	*	*	*
Purcell <i>et al.</i> 2022	*	-	*	*	-	-	*	*	*
Rahman <i>et al.</i> 2018	*	*	*	*	-	-	*	*	*
Ruan <i>et al.</i> 2021	*	*	*	*	-	-	*	*	*
Saeman <i>et al.</i> 2016	*	*	*	*	*	-	*	*	*
Senel <i>et al.</i> 2009	*	*	*	*	-	-	*	*	*
Thombs <i>et al.</i> 2006	*	*	*	*	*	-	*	*	*
Tiongco <i>et al.</i> 2023	*	*	*	*	*	-	*	*	*
Tiruneh <i>et al.</i> 2022	*	*	*	*	-	-	*	*	*

*, indicates criterion met; -, indicates significant of criterion not met.

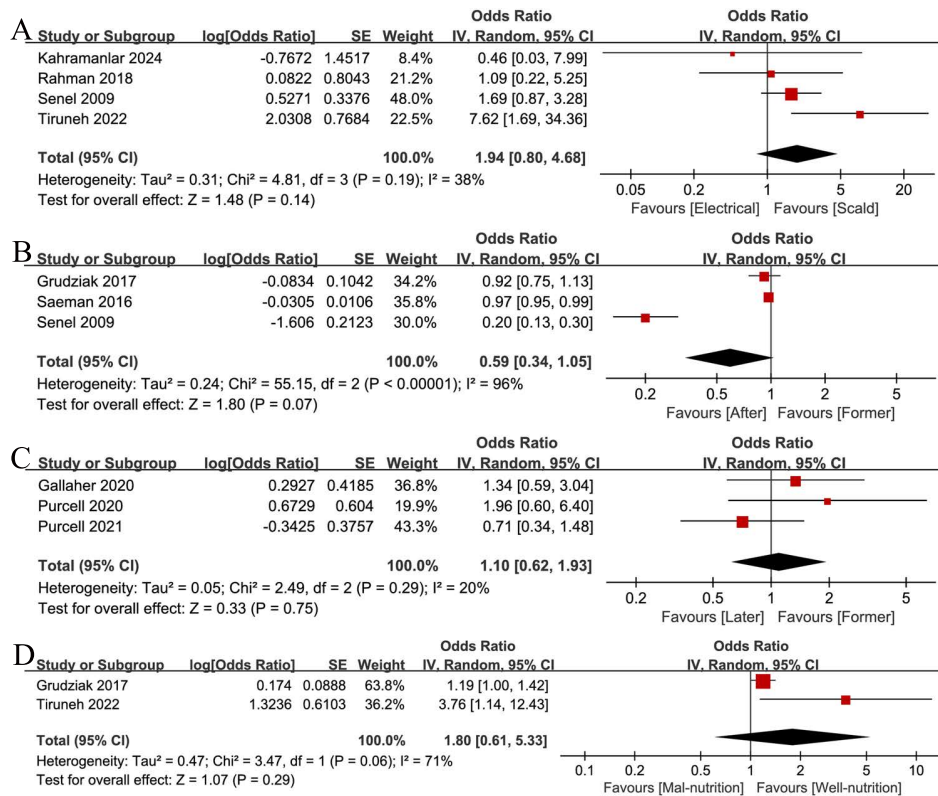


Figure S1 Forest plots of the association between etiology (electrical versus scald), year of treatment, time to presentation and nutritional status with the risk of mortality in pediatric burn patients. (A) Forest plots for the association between burn etiology (electrical versus scald) and mortality risk in pediatric burn patients; (B) forest plots for the association between year of treatment and mortality risk in pediatric burn patients; (C) forest plots for the association between time to presentation and mortality risk in pediatric burn patients; (D) forest plots for the association between nutritional status and mortality risk in pediatric burn patients.

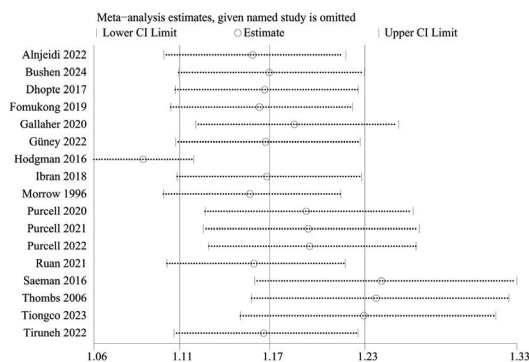


Figure S2 Sensitivity analysis of TBSA (extreme-value analysis). TBSA, total burn surface area.

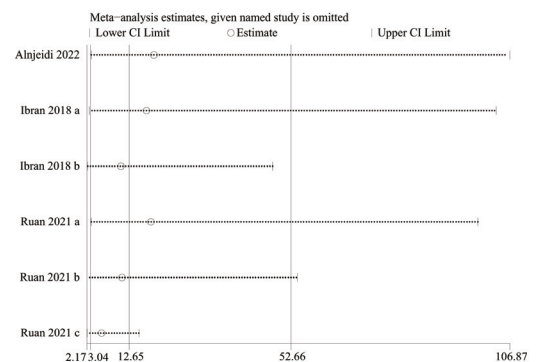


Figure S3 Sensitivity analysis of TBSA (10%). TBSA, total burn surface area.

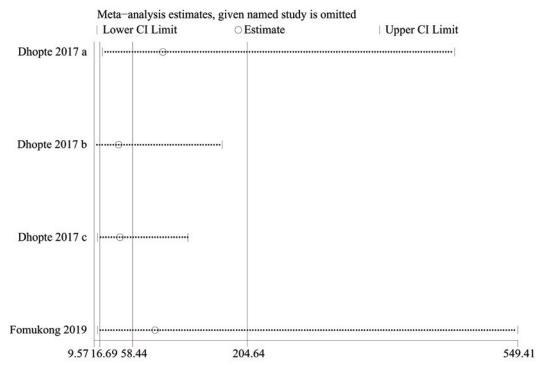


Figure S4 Sensitivity analysis of TBSA (25%). TBSA, total burn surface area.

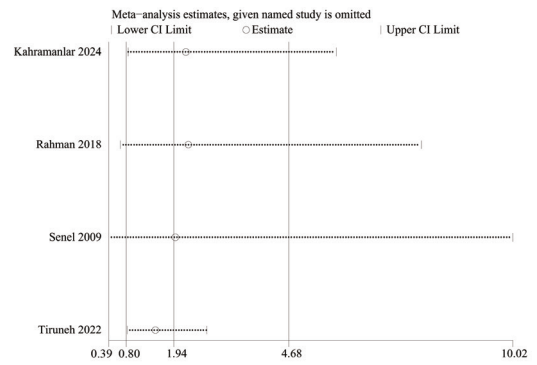


Figure S7 Sensitivity analysis of etiology (electrical versus scald).

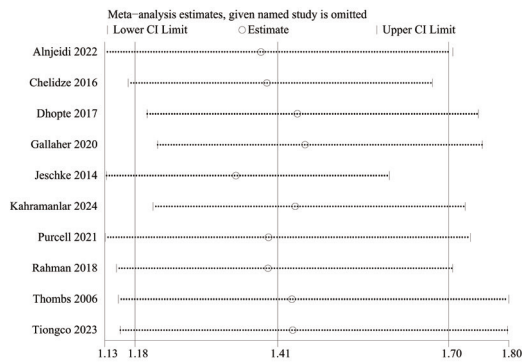


Figure S5 Sensitivity analysis of gender.

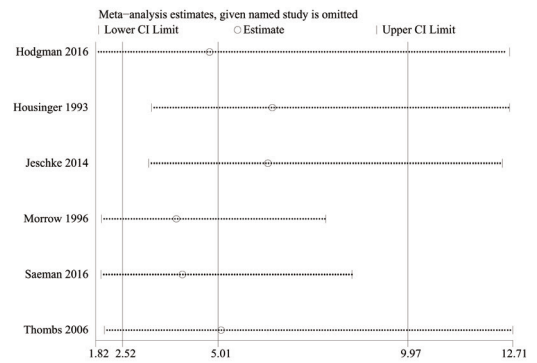


Figure S8 Sensitivity analysis of inhalation injury.

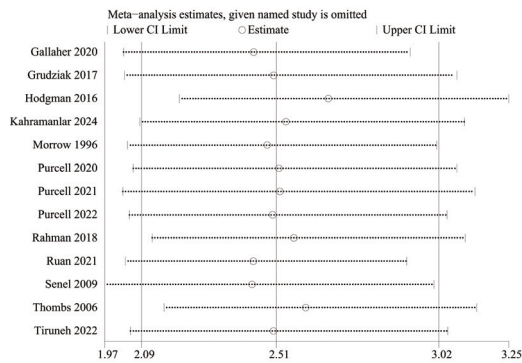


Figure S6 Sensitivity analysis of etiology (flame versus scald).

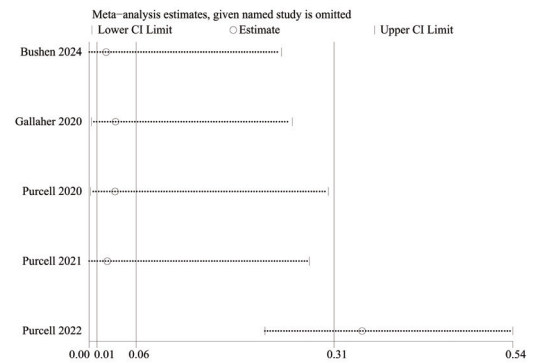


Figure S9 Sensitivity analysis of surgical intervention.

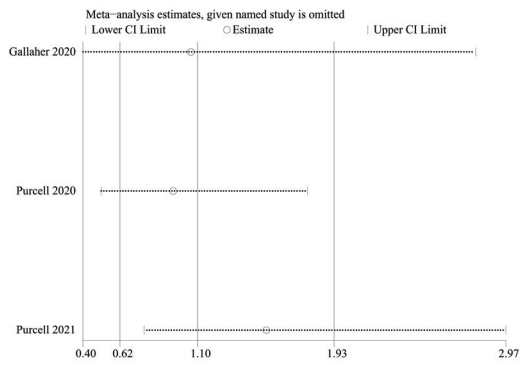


Figure S10 Sensitivity analysis of time to presentation.

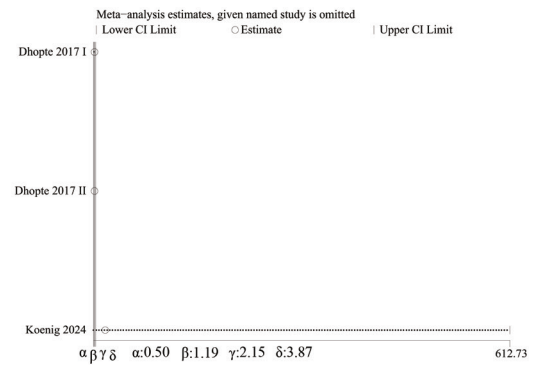


Figure S13 Sensitivity analysis of burn characteristics.

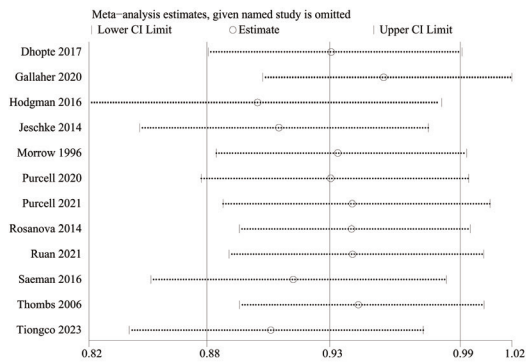


Figure S11 Sensitivity analysis of age (extreme-value analysis).

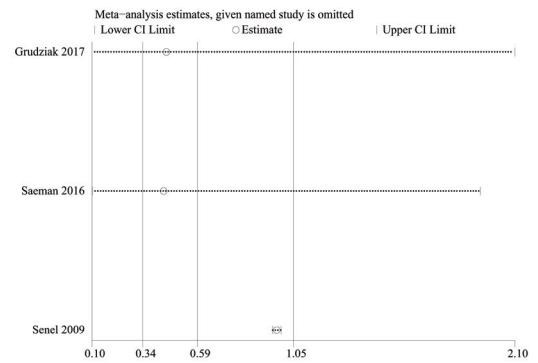


Figure S14 Sensitivity analysis of year of treatment (extreme-value analysis).

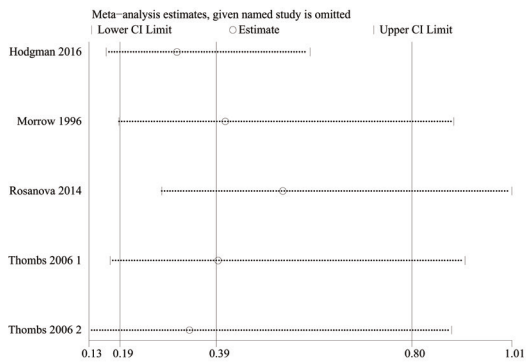


Figure S12 Sensitivity analysis of age (4-year).

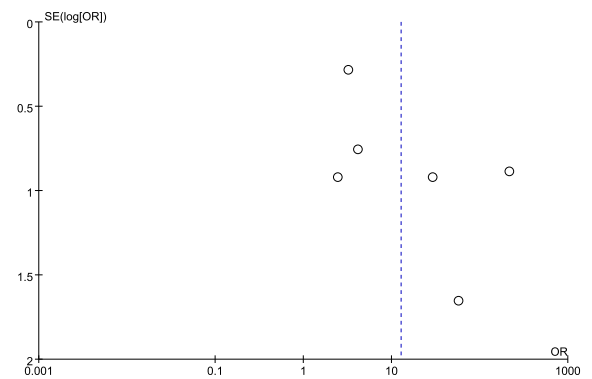


Figure S15 Funnel plot for the evaluation of publication bias for TBSA (10%). TBSA, total burn surface area.

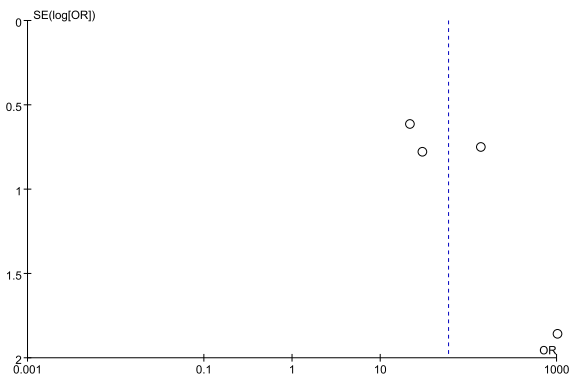


Figure S16 Funnel plot for the evaluation of publication bias for TBSA (25%). TBSA, total burn surface area.

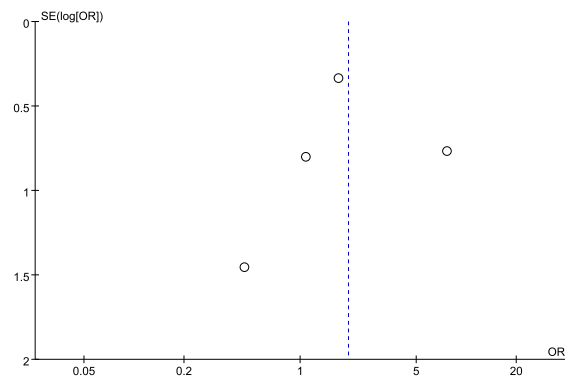


Figure S19 Funnel plot for the evaluation of publication bias for etiology (electrical versus scald).

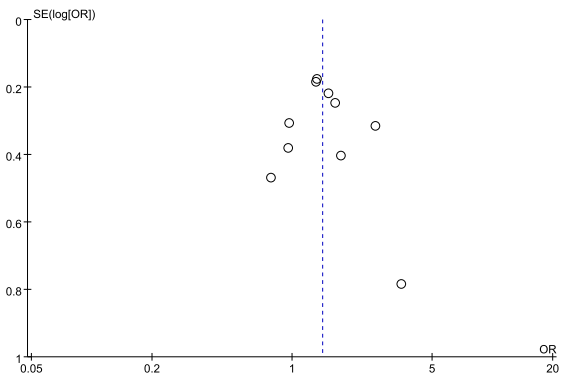


Figure S17 Funnel plot for the evaluation of publication bias for gender.

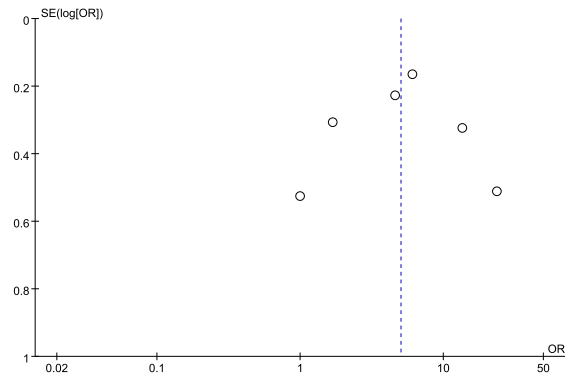


Figure S20 Funnel plot for the evaluation of publication bias for inhalation injury.

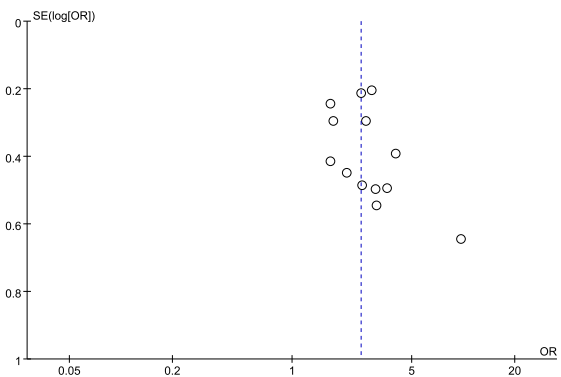


Figure S18 Funnel plot for the evaluation of publication bias for etiology (flame versus scald).

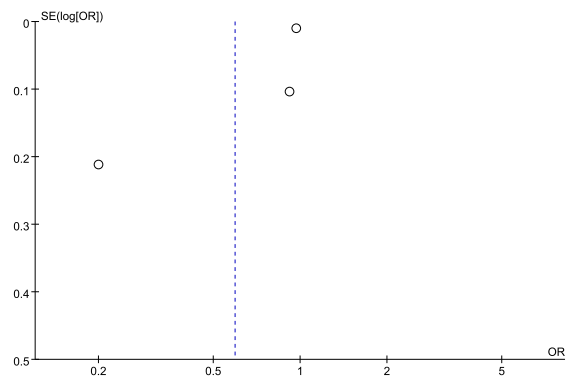


Figure S21 Funnel plot for the evaluation of publication bias for year of treatment.

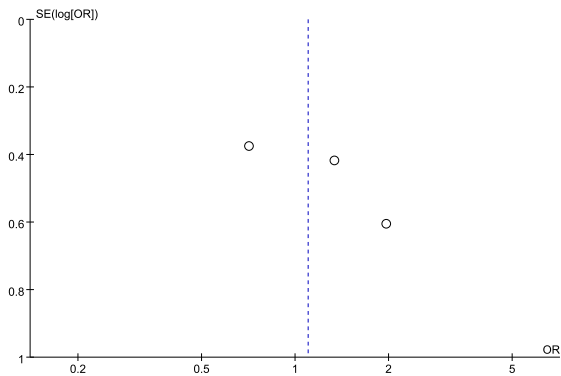


Figure S22 Funnel plot for the evaluation of publication bias for time to presentation.

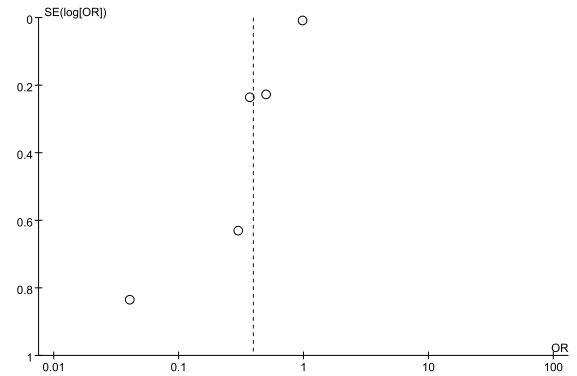


Figure S25 Funnel plot for the evaluation of publication bias for age (4-year).

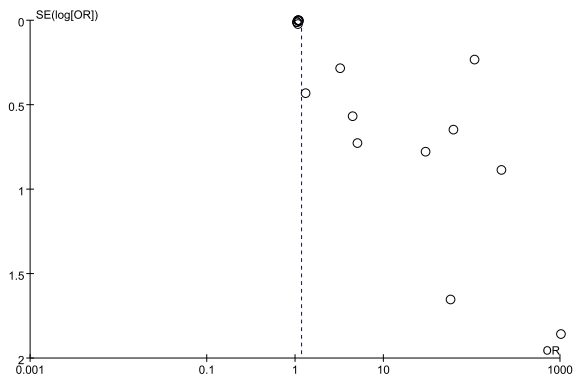


Figure S23 Funnel plot for the evaluation of publication bias for TBSA (extreme-value analysis). TBSA, total burn surface area.

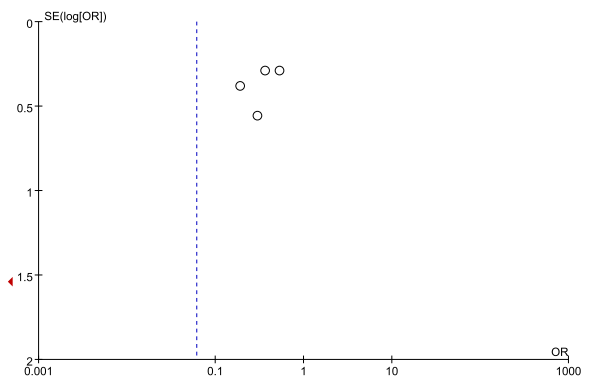


Figure S26 Funnel plot for the evaluation of publication bias for surgery.

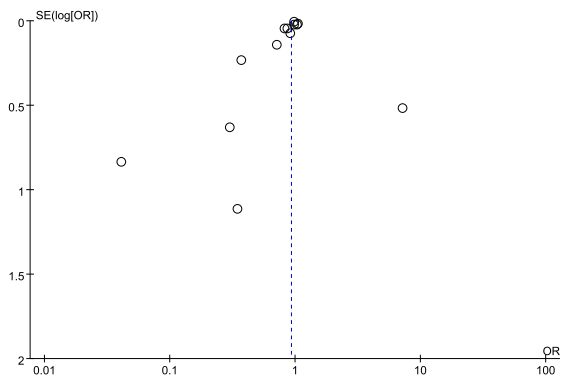


Figure S24 Funnel plot for the evaluation of publication bias for age (extreme-value analysis).

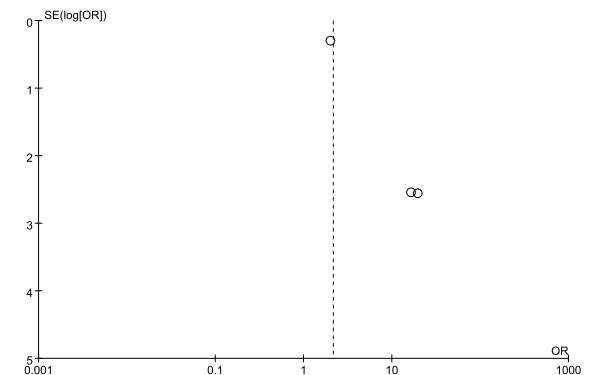


Figure S27 Funnel plot for the evaluation of publication bias for burn characteristic.