Supplementary Table 2. Judgement of each domain in ROBINS-E tool

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Study	Outcome	Preliminary	Domain 1 (Variant A) Response	Domain 1 (Variant B) Respo nse	Domain 2 (Variant A) Respo	Domain 2 (Variant B) Response	Domain 2 (Variant C) Response	Domain 3 Respons e	Domain 4 Respons e	Domain 5 Respons e	Domain 6 Respons e	Domain 7 Response	Overall
Fields A et al (2018)	POD	Passed	High risk			Low risk		Low risk	High risk	Low risk	Some conc erns	Low risk	High ris k
	PACU LoS	Passed	Some concer ns			Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
	Hospital LoS	Passed	High risk			Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	High ris k
	Mortality	Passed	High risk			Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	High ris k
Assefa S et al (2019)	PACU LoS	Very high ri sk											Very hig h risk
Gutiérrez R G at al. (20 19)	POD	Very high ri sk											Very hig h risk
Hesse S et al (2019)	PACU LoS	Very high ri sk											Very hig h risk
	Hospital LoS	Very high ri sk											Very hig h risk
Huang J et al (2020)	POD	Passed	Some concer ns			Low risk		Low risk	Low risk	Low risk	Some conc erns	Low risk	Some co ncerns
	Hospital LoS	Very high ri sk											Very hig h risk
Kim HC et	PACU LoS	Passed	Some concer ns		Low risk			Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
al (2015)	Hospital LoS	Very high ri sk											Very hig h risk
Lepouse C	PACU LoS	Very high ri sk											Very hig h risk
et al (2006)	Mortality	Passed	Some concer ns		Low risk			Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
Munk L et al (2016)	PACU LoS	Very high ri sk											Very hig h risk
Neufeld KJ et al (2013)	POD	Very high ri sk											Very hig h risk
Olbert M et al (2019)	PACU LoS	Very high ri sk											Very hig h risk
	Hospital LoS	Very high ri sk											Very hig h risk
Punita T Sh arma et al (2005)	POD	Very high ri sk											Very hig h risk
	PACU LoS	Passed	Some concer		Low risk			Low risk	Low risk	Low risk	Low risk	Low risk	Some co

Radtke FM			ns								ncerns
et al (2008)	Hospital LoS	Very high ri sk									Very hig h risk
Radtke FM et al (2010)	POD	Very high ri sk									Very hig h risk
Radtke FM et al (2010)	PACU LoS	Passed	Some concer ns	Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
	Hospital LoS	Passed	Some concer ns	Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
Saller T et	PACU LoS	Passed	Some concer ns	Low risk		Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
al (2019)	Hospital LoS	Very high ri sk									Very hig h risk
Wang C et al (2020)	POD	Passed	High risk	Low risk		Low risk	High risk	Low risk	Some conc erns	Low risk	High ris k
	PACU LoS	Very high ri sk									Very hig h risk
Wiinholdt D et al (20	Hospital LoS	Very high ri sk									Very hig h risk
19)	Mortality	Very high ri sk									Very hig h risk
Winter A et al (2015)	PACU LoS	Very high ri sk									Very hig h risk
Wu J et al	PACU LoS	Very high ri sk									Very hig h risk
(2021)	Hospital LoS	Very high ri sk									Very hig h risk
Xará D et a 1 (2013)	POD	Very high ri sk									Very hig h risk
	PACU LoS	Passed	Some concer ns		Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
	Hospital LoS	Passed	Some concer ns		Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
Yu D et al (2010)	PACU LoS	Very high ri sk									Very hig h risk
Zhang Y et al (2020)	POD	Passed	High risk		Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	High ris k
	PACU LoS	Passed	Some concer ns		Low risk	 Low risk	Low risk	Low risk	Low risk	Low risk	Some co ncerns
	Hospital LoS	Passed	High risk		Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	High ris k

PACU, Post Anesthesia Care Unit; POD, Postoperative Delirium; LoS, Length of Stay

The ROBINS-E tool assesses preliminary risk of bias and 7 domains of bias: confounding, selection of participants into the study, classification of exposures, departures from intended exposures, missing data, measurement of outcomes and selection of the reported result.