

## Supplementary

**Tables S1** Retrospective studies evaluated using ROBINS-I

		Kazaryan <i>et al.</i> , 2011 (43)	Dancea <i>et al.</i> , 2012 (44)	Economopoulos <i>et al.</i> , 2016 (45)	Pezdziwiatr <i>et al.</i> , 2017 (46)	Inaishi <i>et al.</i> , 2018 (47)	Ortenzi <i>et al.</i> , 2019 (48)	Altın <i>et al.</i> , 2021 (49)	Rodríguez-Hermosa <i>et al.</i> , 2021 (50)
Pre-intervention	Confounding	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Selection bias	No information	No information	No information	No information	No information	Low	No information	No information
Intra-intervention	Classification of interventions	Low	Low	Low	Low	Low	Low	Low	Low
Post-intervention	Intended interventions	Low	Low	Low	Low	Low	Low	Low	Low
	Missing data	Low	Low	Low	Low	Low	Low	Low	Low
	Measurement of outcomes	Low	Low	Low	Low	Low	Low	Low	Low
	Reported results	Low	Low	Low	Low	Low	Low	Low	Low
Overall bias		Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

Subgroup analysis with  $\geq 30 \text{ kg/m}^2$  obesity criteria studies.

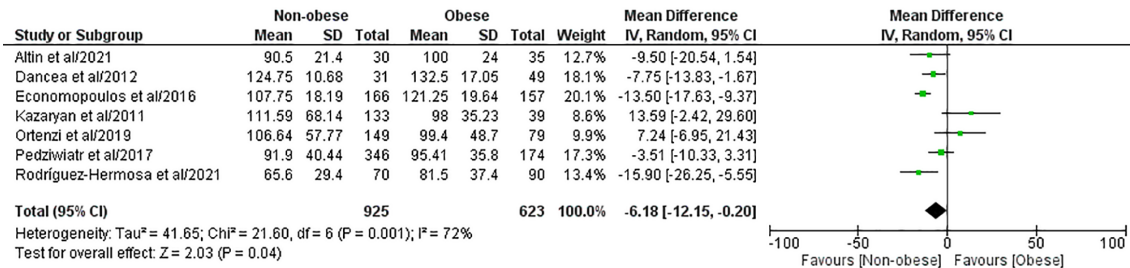


Figure S1 Forest plot comparing operative time between the NOB and Ob groups (obesity  $\geq 30 \text{ kg/m}^2$  subgroups) (43-46,48-50). SD, standard deviation; IV, inverse variance; CI, confidence interval; df, data frame.

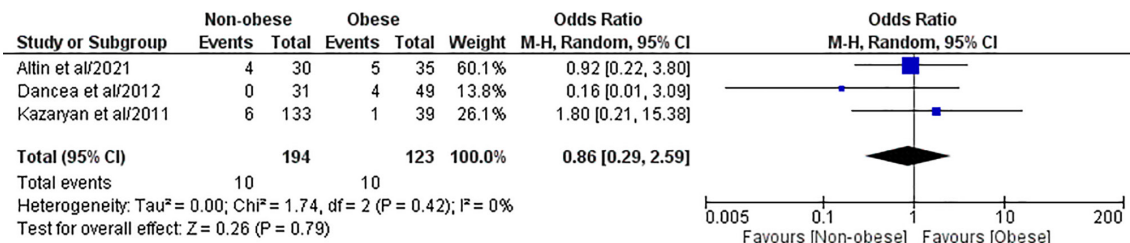


Figure S2 Forest plot comparing reported intraoperative complications rate between the NOB and Ob groups (obesity  $\geq 30 \text{ kg/m}^2$  subgroups) (43,44,49). CI, confidence interval; M-H, Mantel-Haenszel; df, data frame.

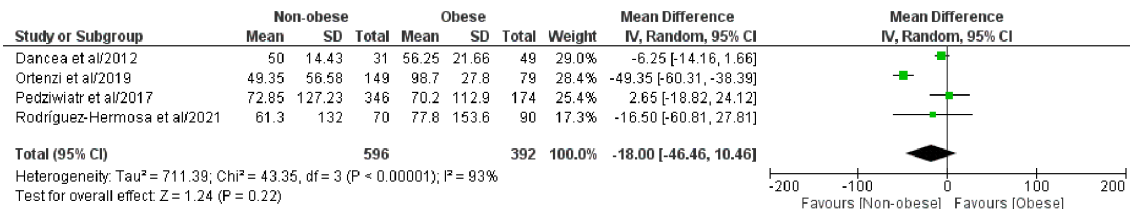
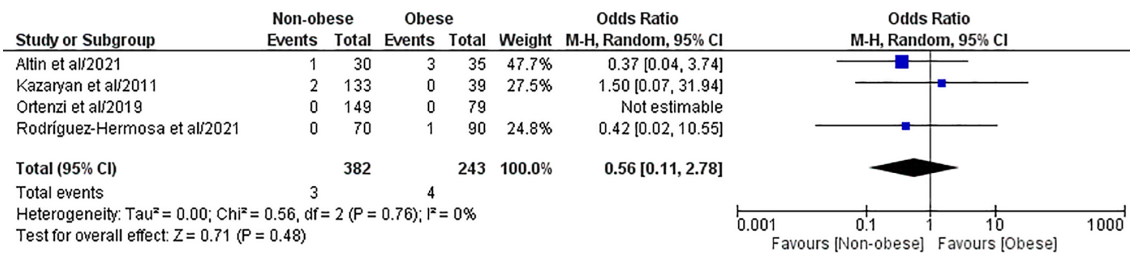
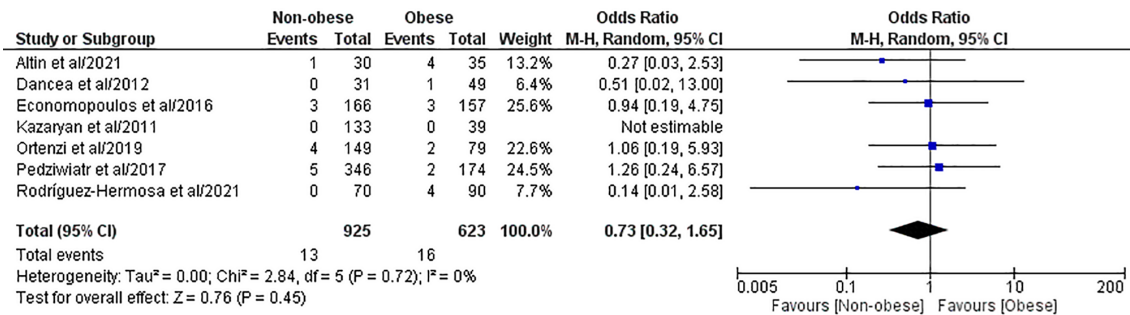


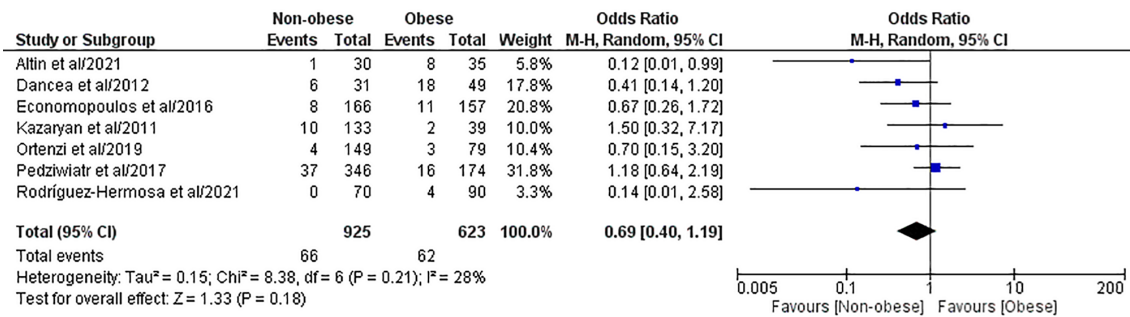
Figure S3 Forest plot comparing estimated blood loss between the NOB and Ob groups (obesity  $\geq 30 \text{ kg/m}^2$  subgroups) (44,46,48,50). SD, standard deviation; IV, inverse variance; CI, confidence interval; df, data frame.



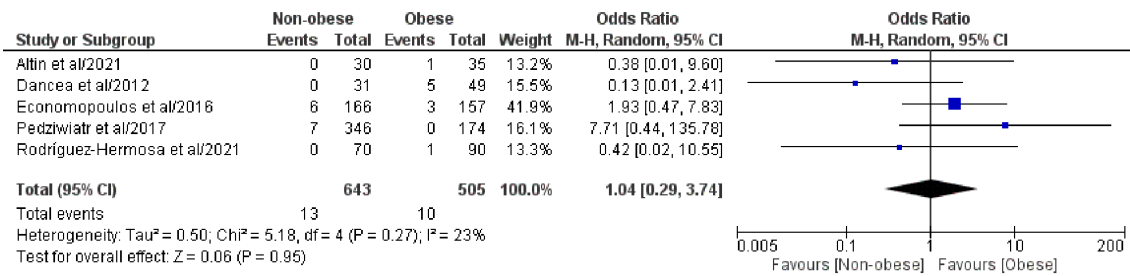
**Figure S4** Forest plot comparing reported transfusion rate between the NOb and Ob groups (obesity  $\geq 30$  kg/m<sup>2</sup> subgroups) (43,48-50). CI, confidence interval; M-H, Mantel-Haenszel; df, data frame.



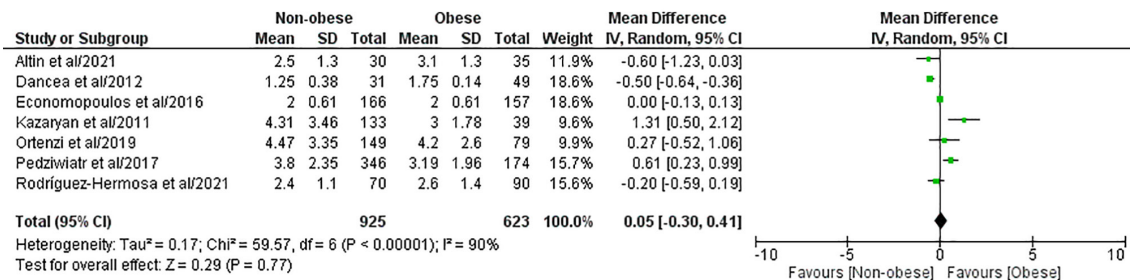
**Figure S5** Forest plot comparing reported conversion to open surgery rate between the NOb and Ob groups (obesity  $\geq 30$  kg/m<sup>2</sup> subgroups) (43-46,48-50). CI, confidence interval; M-H, Mantel-Haenszel; df, data frame.



**Figure S6** Forest plot comparing reported overall postoperative complications rate between the NOb and Ob groups (obesity  $\geq 30$  kg/m<sup>2</sup> subgroups) (43-46,48-50). CI, confidence interval; M-H, Mantel-Haenszel; df, data frame.



**Figure S7** Forest plot comparing reported major (CD  $\geq$  III) postoperative complications rate between the NOb and Ob groups (obesity  $\geq$ 30 kg/m<sup>2</sup> subgroups) (44-46,49,50). CI, confidence interval; M-H, Mantel-Haenszel; df, data frame.



**Figure S8** Forest plot comparing length of hospital stay between the NOb and Ob groups (obesity  $\geq$ 30 kg/m<sup>2</sup> subgroups) (43-46,48-50). SD, standard deviation; IV, inverse variance; CI, confidence interval; df, data frame.