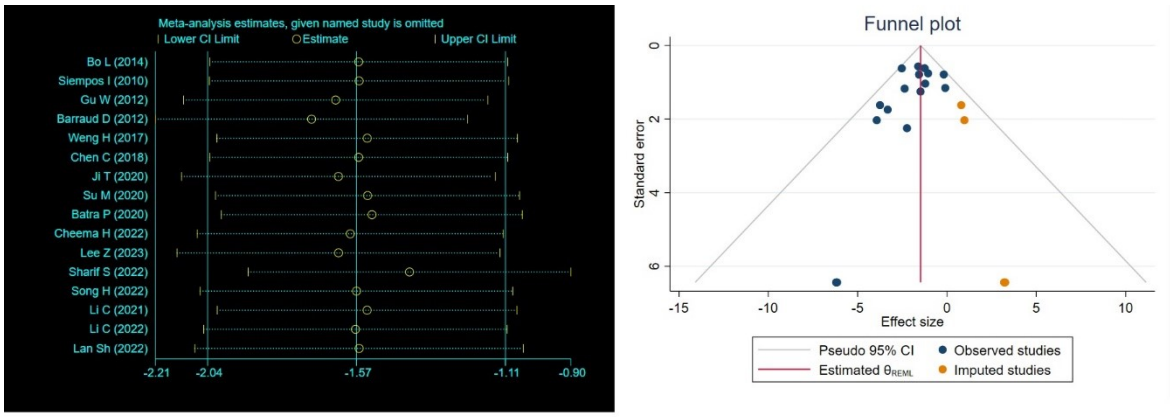
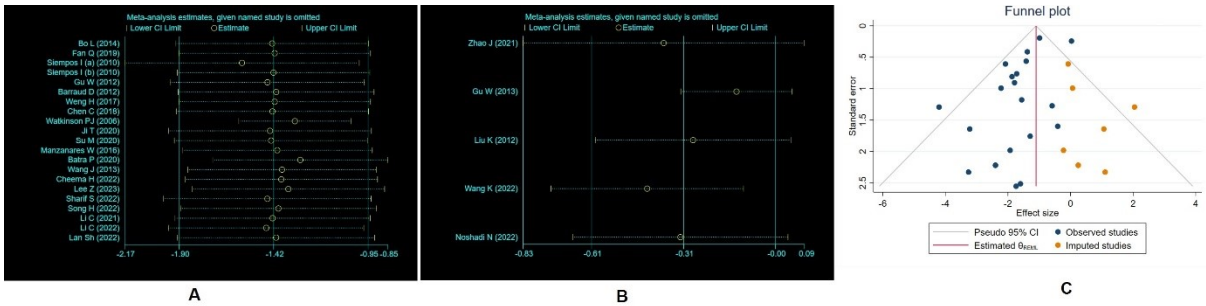
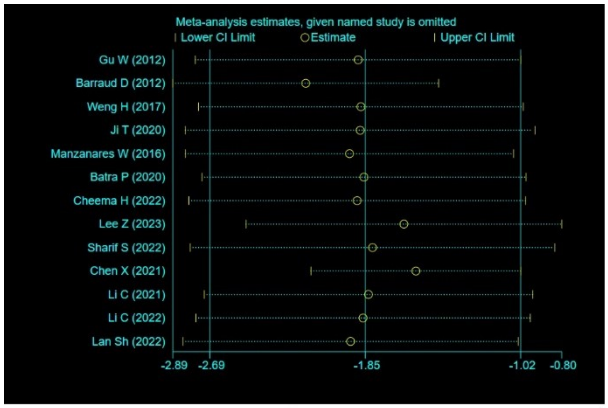


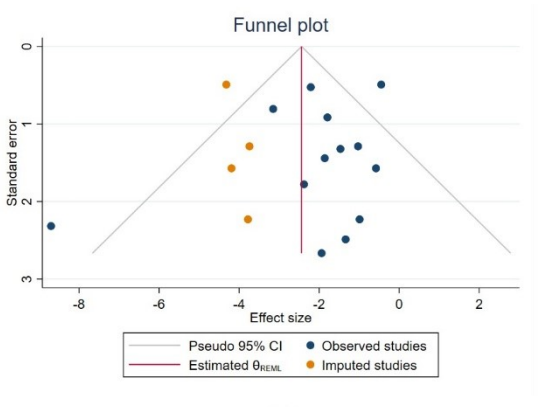
Supplementary Fig. 1. Sensitivity analysis regarding the effects of probiotics supplementation on duration of MV **(A)** and Trim and Fill analysis showing modified pooled WMDs regarding the effects of probiotics supplementation on duration of MV **(B)**.



Supplementary Fig. 2. Sensitivity analyses regarding the effects of probiotics supplementation on ICU length of stay according to WMD **(A)** and SMD **(B)** and Trim and Fill analysis showing modified pooled WMDs regarding the effects of probiotics supplementation on ICU length of stay **(C)**.

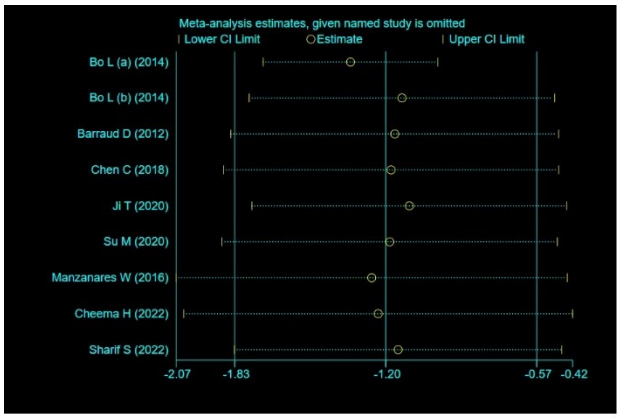


A

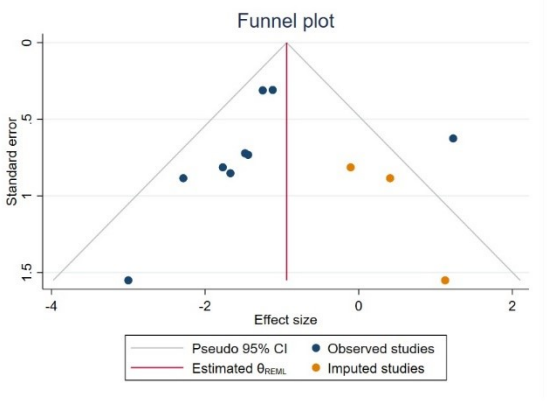


B

Supplementary Fig. 3. Sensitivity analysis regarding the effects of probiotics supplementation on hospital length of stay **(A)** and Trim and Fill analysis showing modified pooled WMDs regarding the effects of probiotics supplementation on hospital length of stay **(B)**.

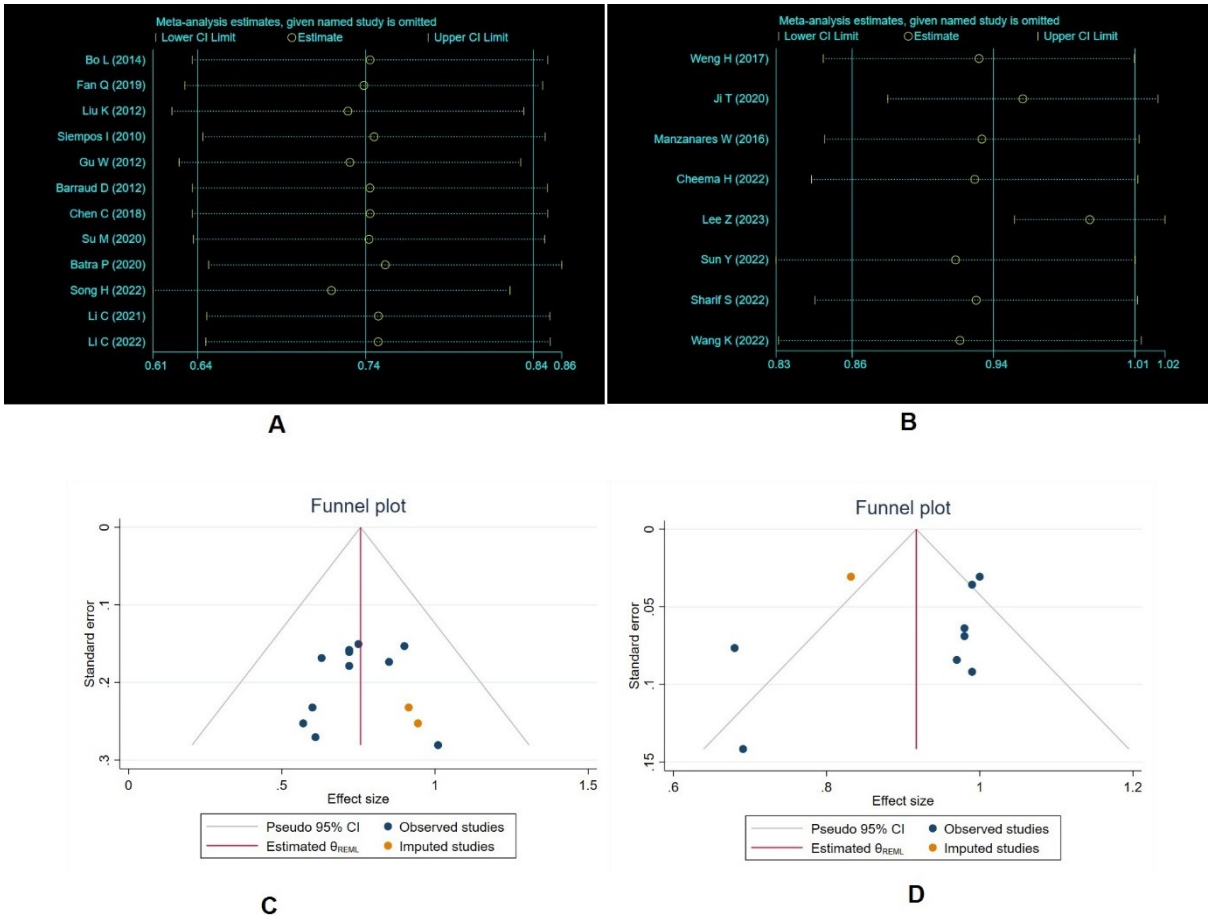


A

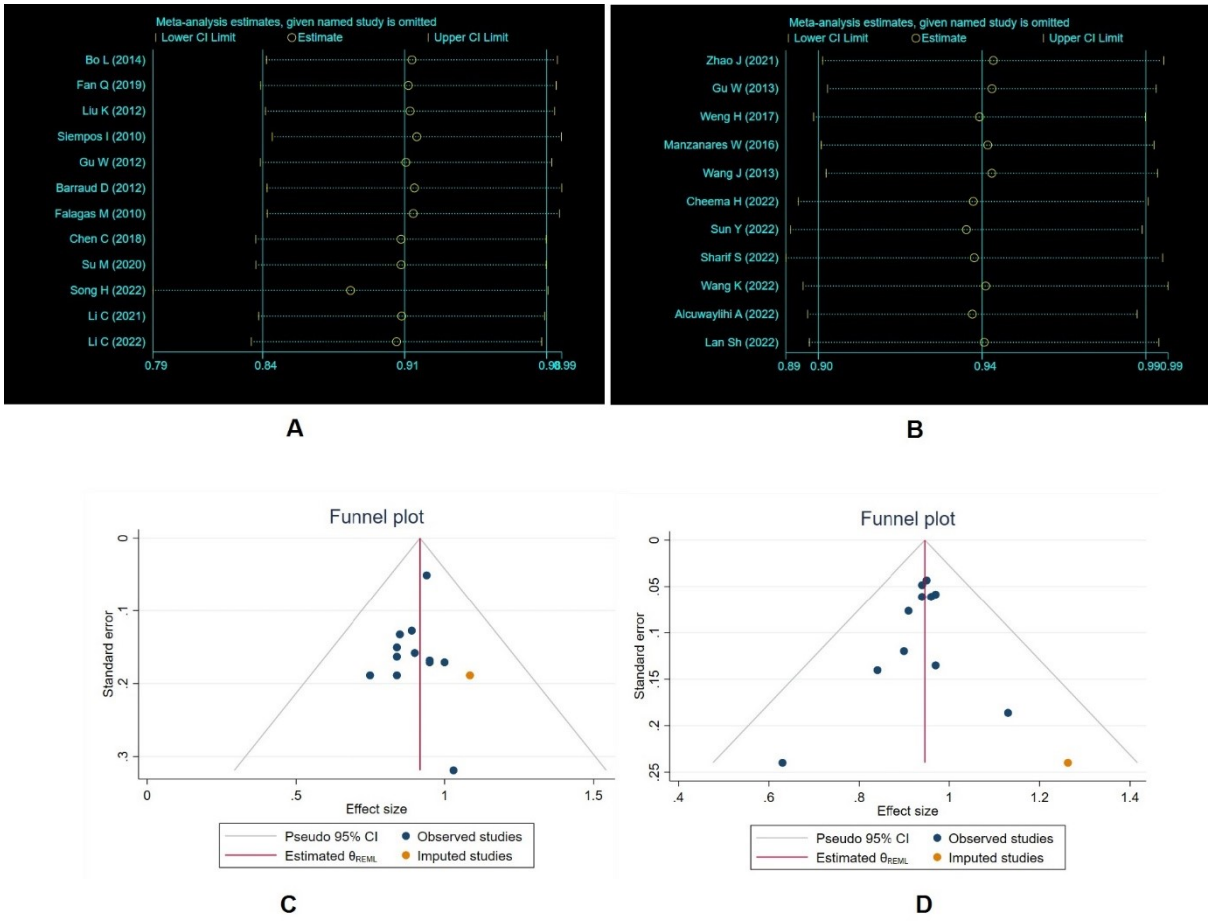


B

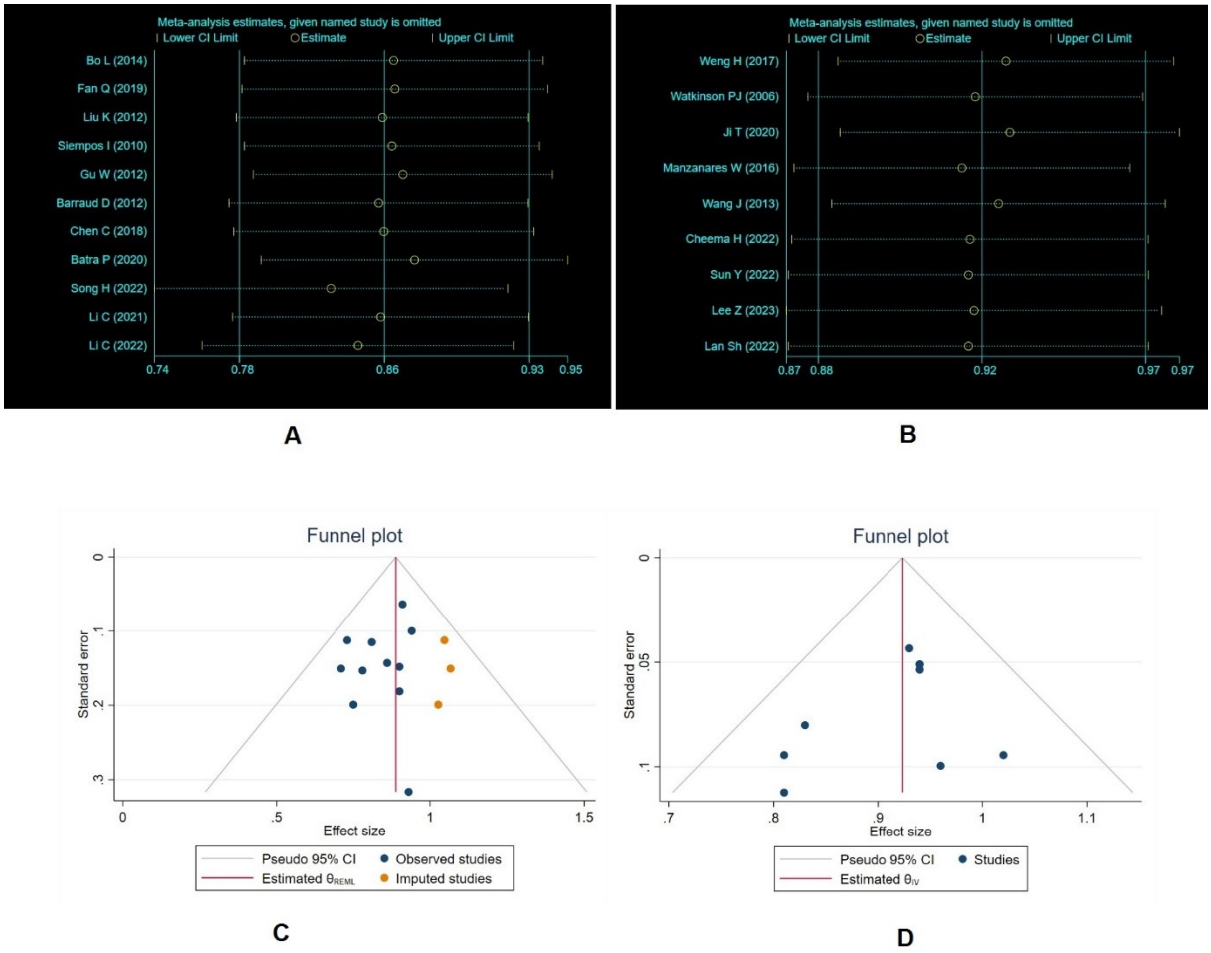
Supplementary Fig. 4. Sensitivity analysis regarding the effects of probiotics supplementation on duration of antibiotic use **(A)** and Trim and Fill analysis showing modified pooled WMDs regarding the effects of probiotics supplementation on duration of antibiotic use **(B)**.



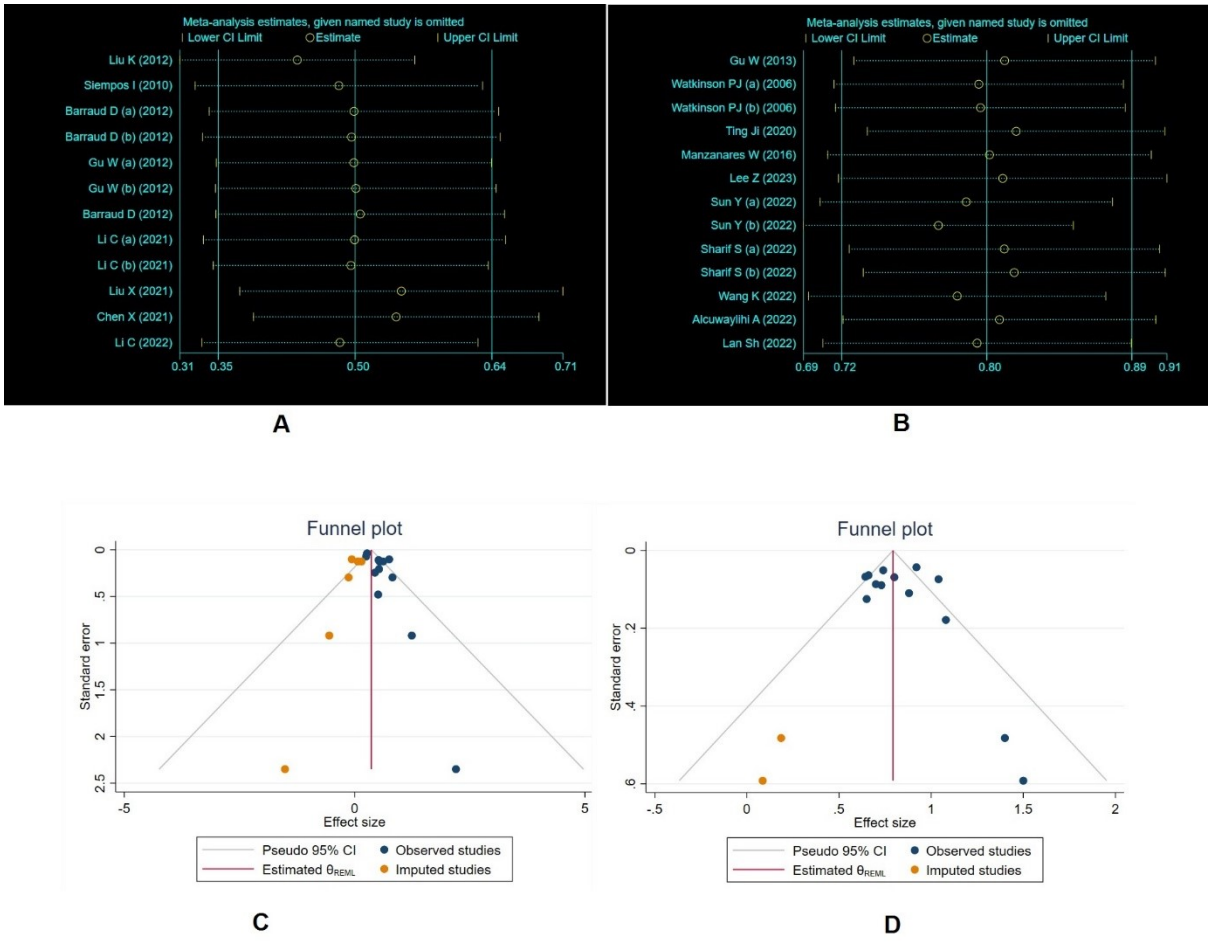
Supplementary Fig. 5. Sensitivity analyses regarding the effects of probiotics supplementation on incidence of diarrhea according to OR **(A)** and RR **(B)** and Trim and Fill analyses showing modified pooled ORs **(C)** and RRs **(D)** regarding the effects of probiotics supplementation on incidence of diarrhea.



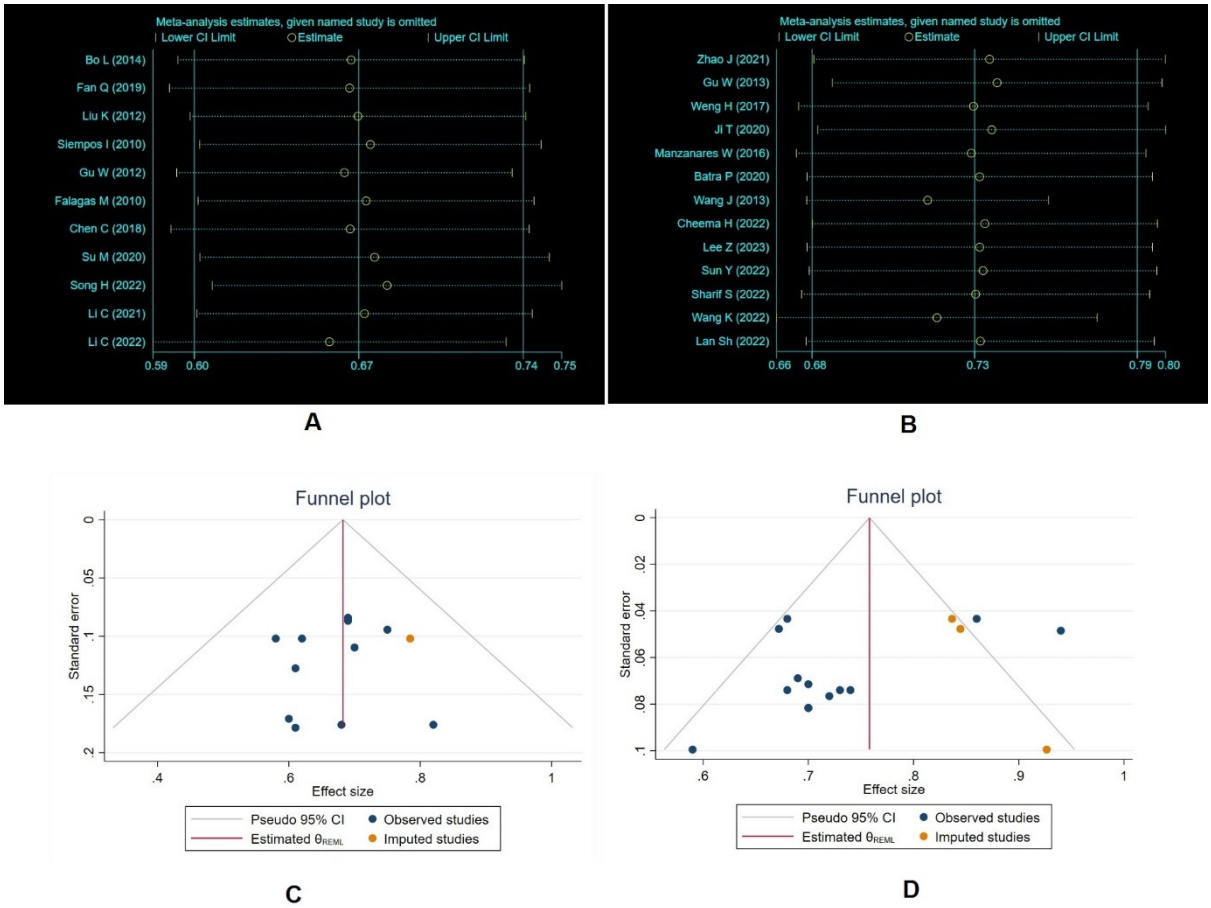
Supplementary Fig. 6. Sensitivity analyses regarding the effects of probiotics supplementation on ICU mortality according to OR **(A)** and RR **(B)** and Trim and Fill analyses showing modified pooled ORs **(C)** and RRs **(D)** regarding the effects of probiotics supplementation on ICU mortality.



Supplementary Fig. 7. Sensitivity analyses regarding the effects of probiotics supplementation on hospital mortality according to OR **(A)** and RR **(B)** and Trim and Fill analyses showing modified pooled ORs **(C)** and RRs **(D)** regarding the effects of probiotics supplementation on hospital mortality.



Supplementary Fig. 8. Sensitivity analyses regarding the effects of probiotics supplementation on nosocomial infections according to OR **(A)** and RR **(B)** and Trim and Fill analyses showing modified pooled ORs **(C)** and RRs **(D)** regarding the effects of probiotics supplementation on nosocomial infections.



Supplementary Fig. 9. Sensitivity analyses regarding the effects of probiotics supplementation on VAP incidence according to OR **(A)** and RR **(B)** and Trim and Fill analyses showing modified pooled ORs **(C)** and RRs **(D)** regarding the effects of probiotics supplementation on VAP incidence.