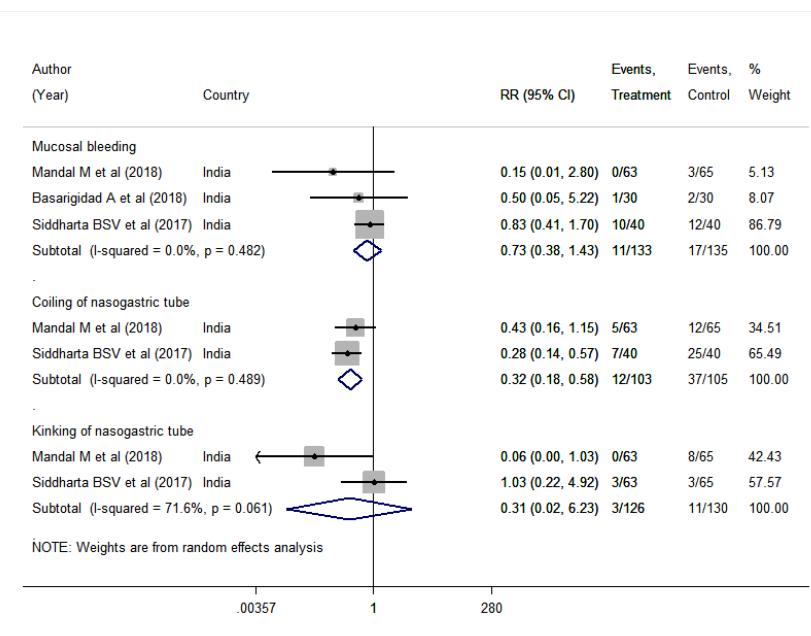
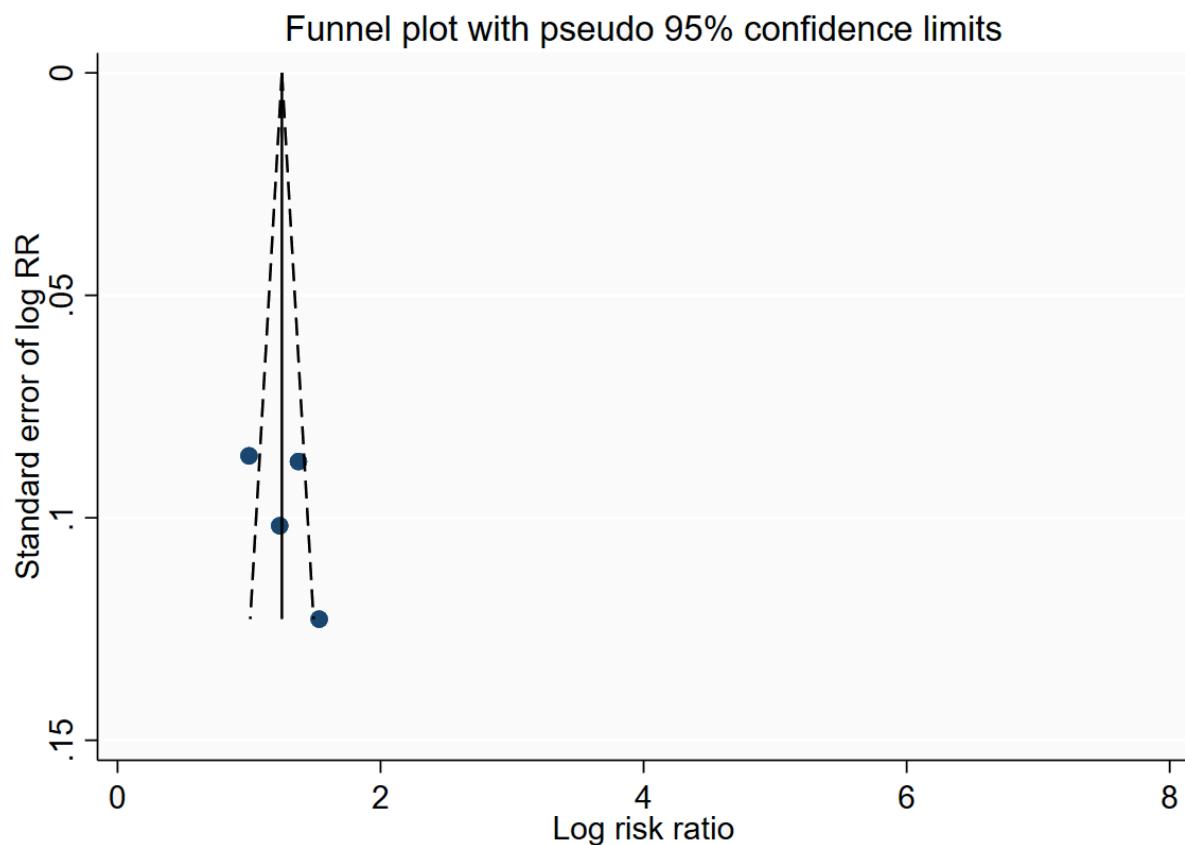


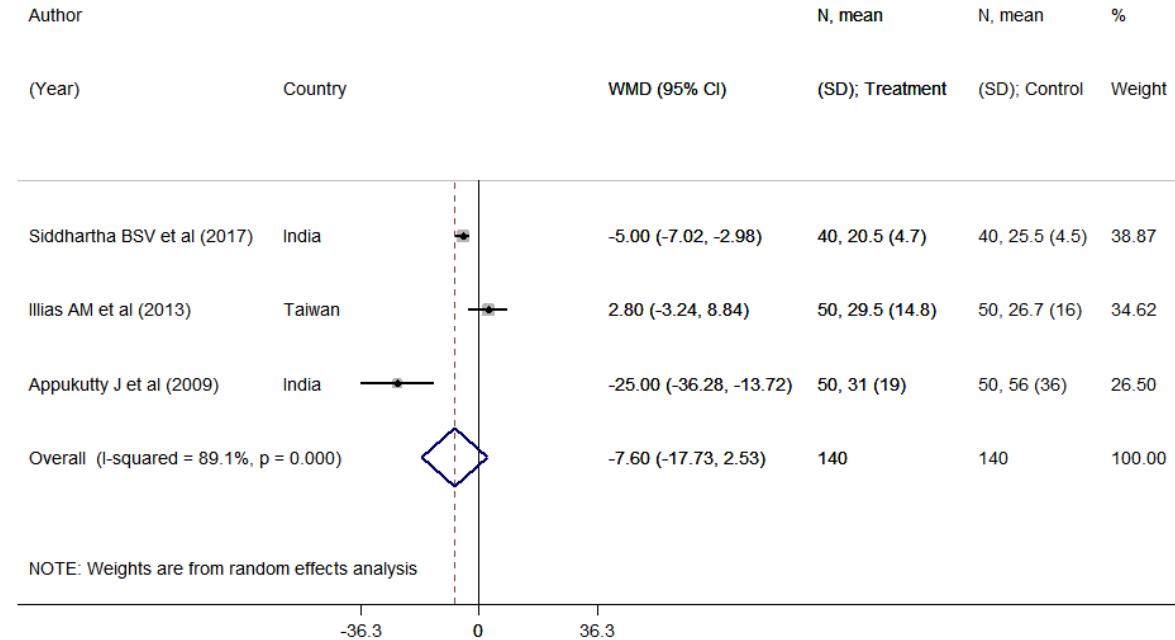
**Supplementary Figure 1 Comparison between conventional technique and reverse Sellick's maneuver in terms of mean time involved in insertion of nasogastric tube (in seconds).**



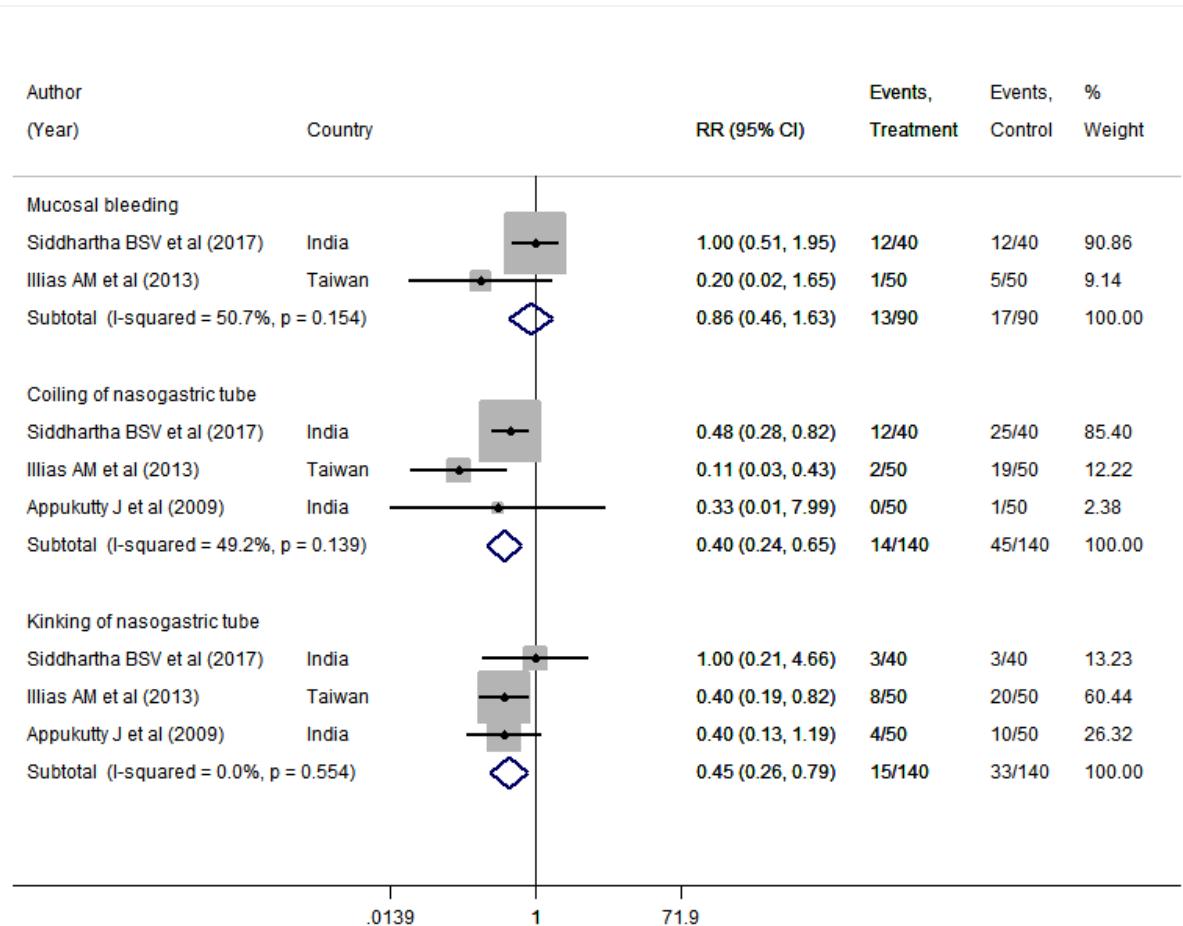
**Supplementary Figure 2 Comparison between conventional technique and reverse Sellick's maneuver in terms of complications during insertion.**



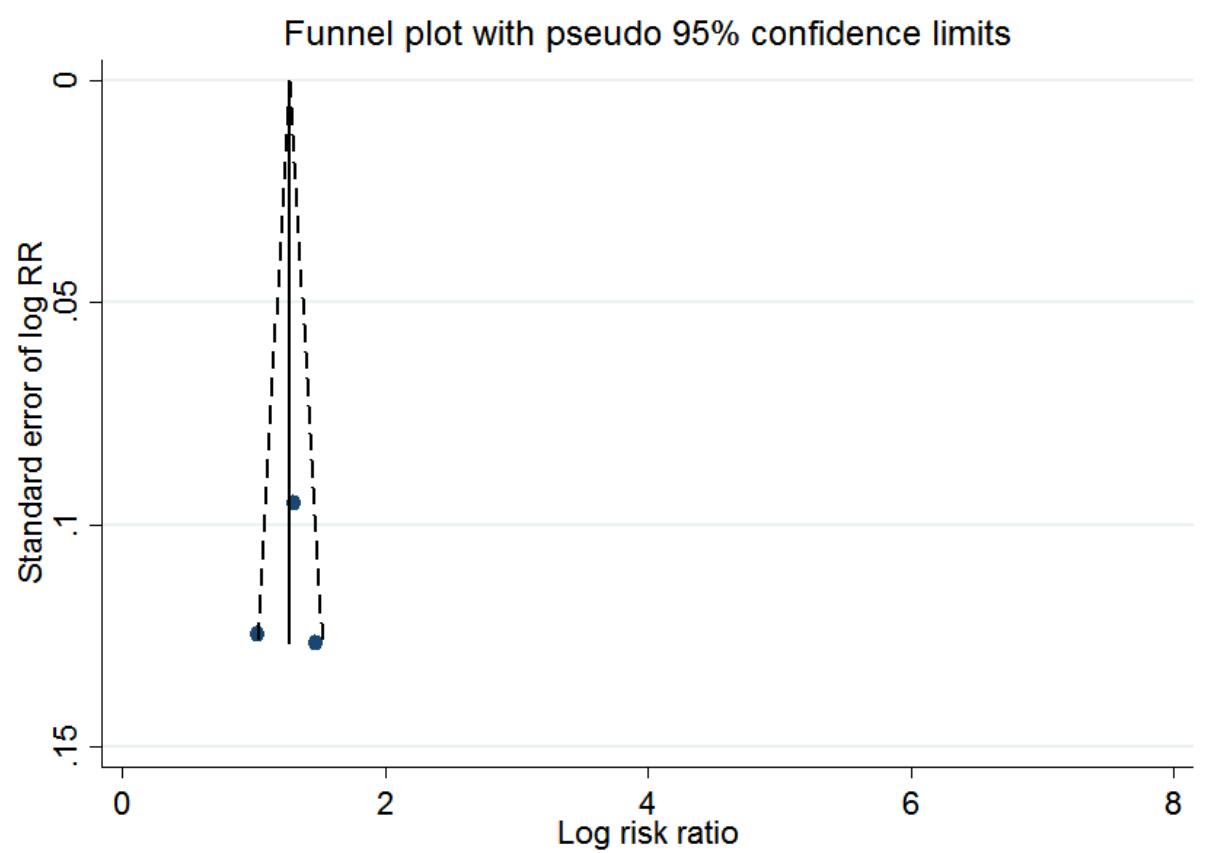
**Supplementary Figure 3** Funnel plot for publication bias with respect to overall successful insertion in comparison between conventional technique and reverse Sellick's maneuver.



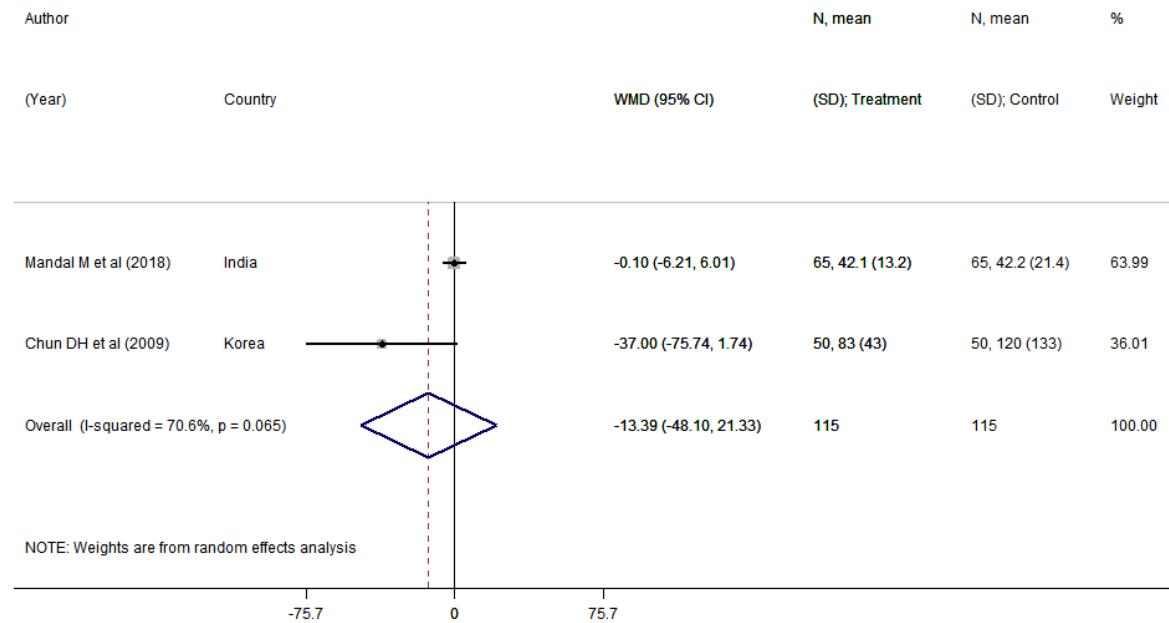
**Supplementary Figure 4 Comparison between conventional technique and neck flexion with lateral neck pressure in context of mean time involved in insertion of nasogastric tube (in seconds).**



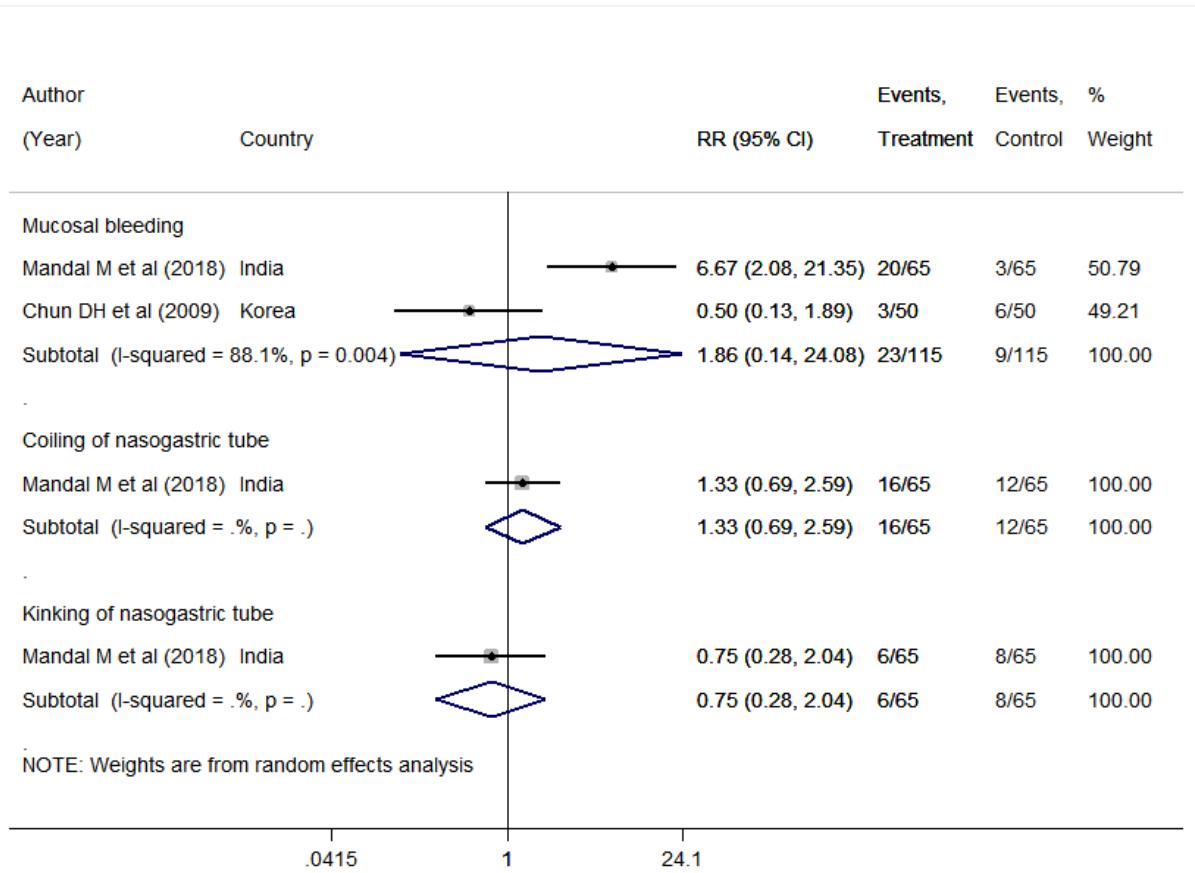
**Supplementary Figure 5 Comparison between conventional technique and neck flexion with lateral neck pressure in terms of complications during insertion.**



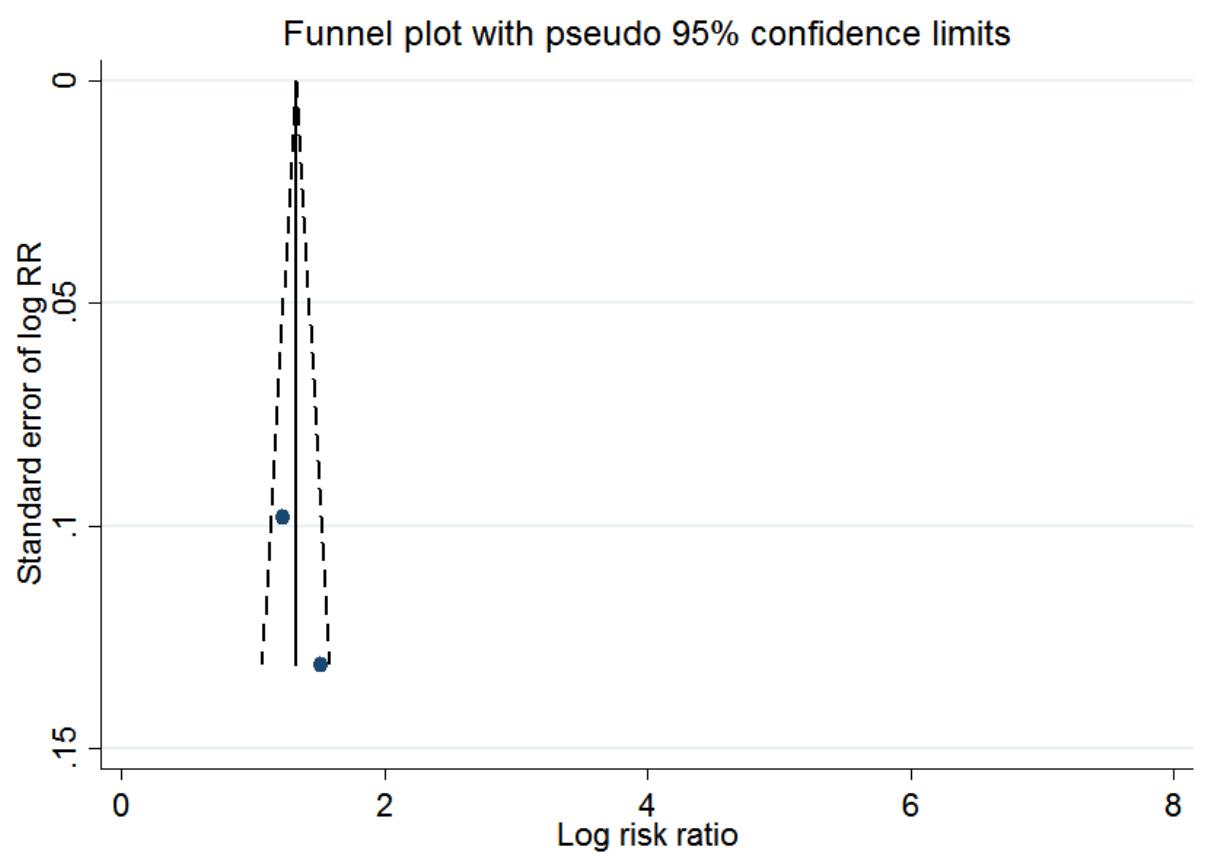
**Supplementary Figure 6** Funnel plot for publication bias with respect to overall successful insertion in comparison between conventional technique and neck flexion with lateral neck pressure.



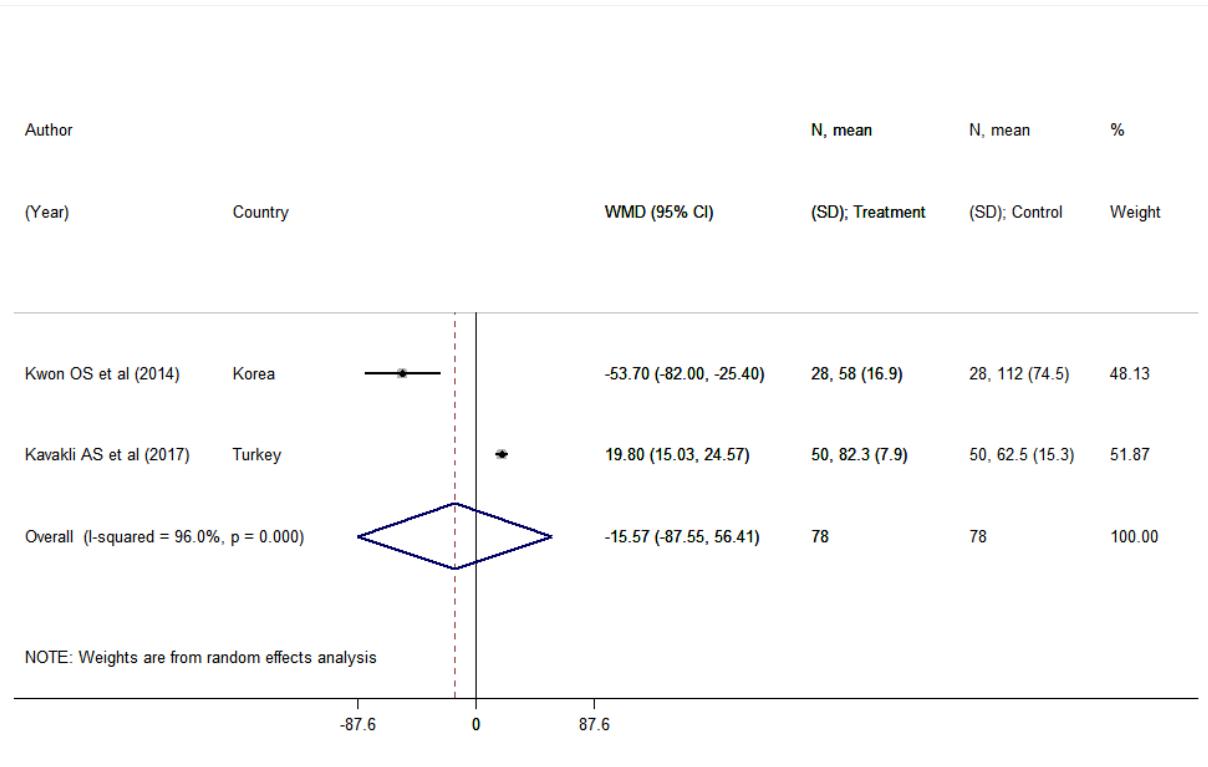
**Supplementary Figure 7 Comparison between placement of normal nasogastric tube and frozen nasogastric tube in context of mean time involved in insertion of nasogastric tube (in seconds).**



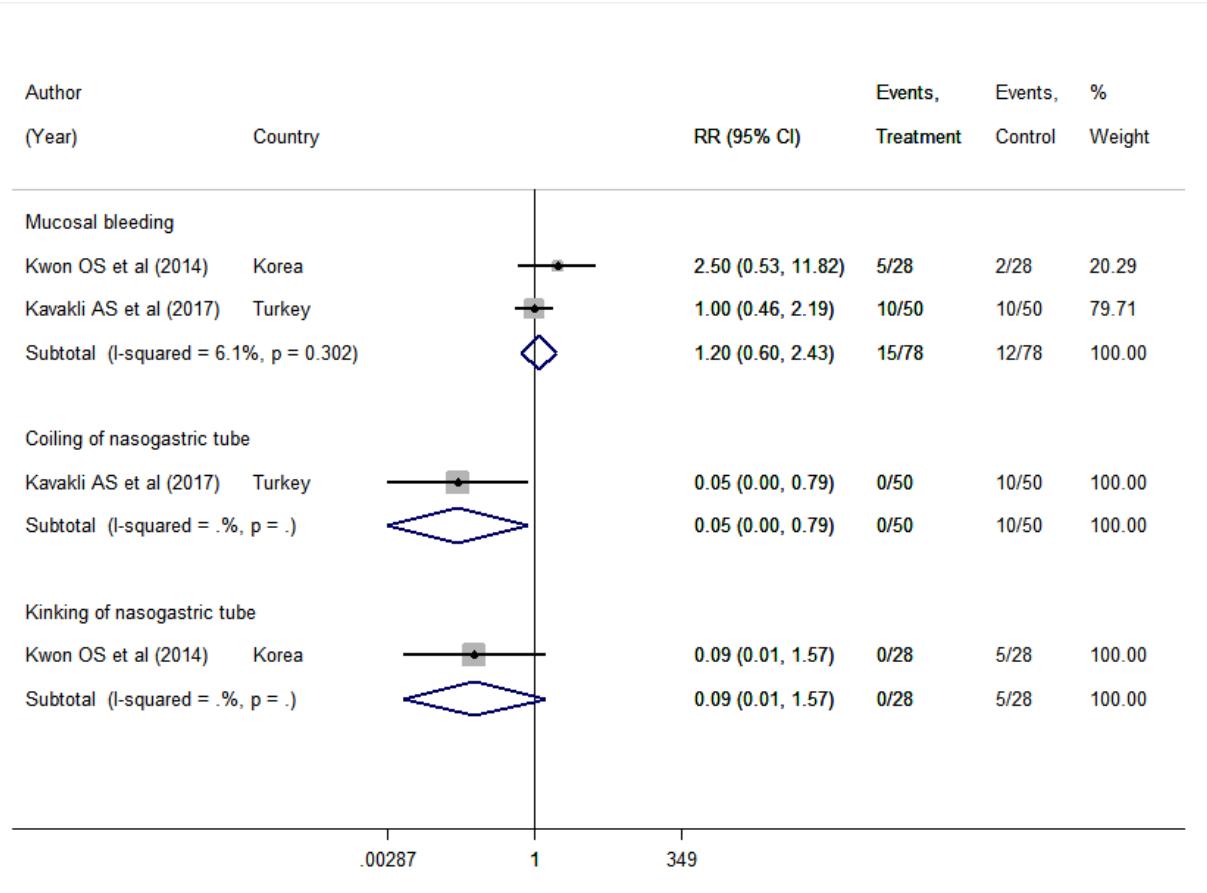
**Supplementary Figure 8 Comparison of complications between placement of normal nasogastric tube and frozen nasogastric tube.**



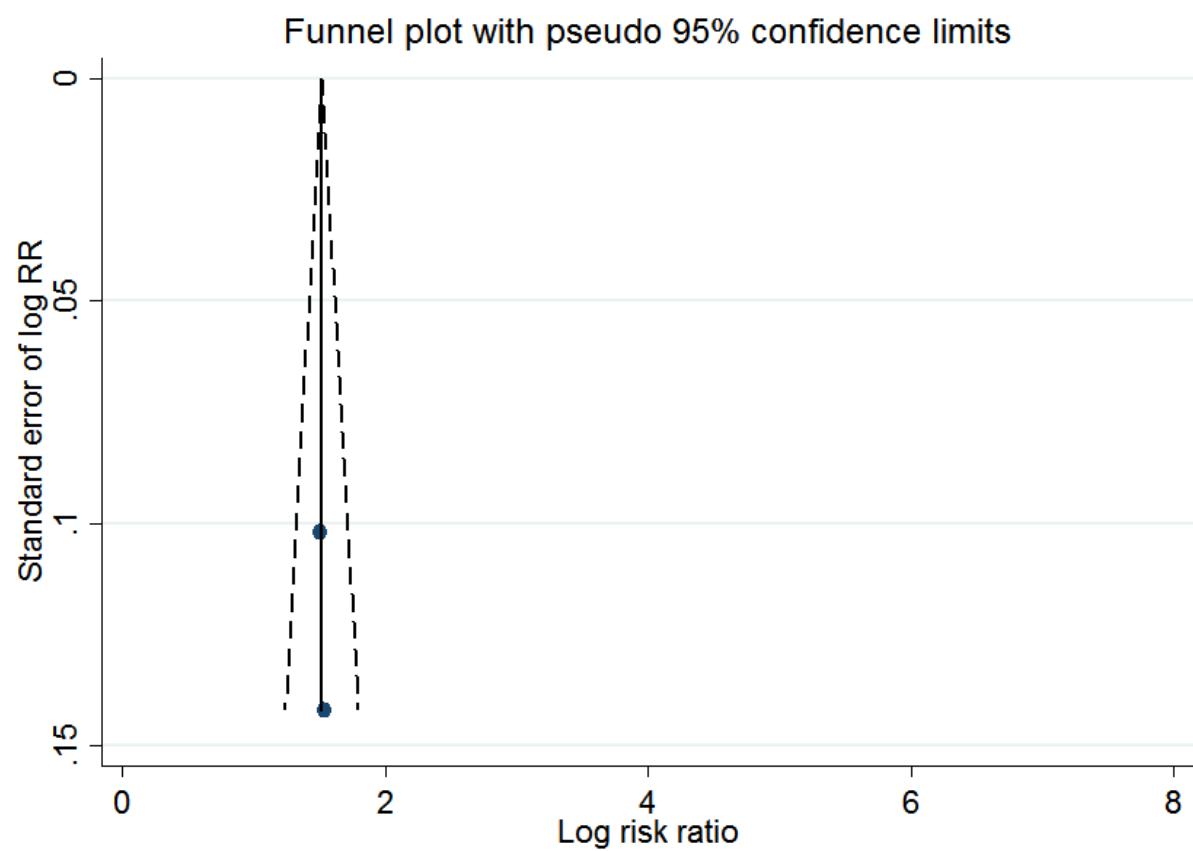
**Supplementary Figure 9** Funnel plot for publication bias with respect to overall successful insertion in comparison between placement of normal nasogastric tube and frozen nasogastric tube.



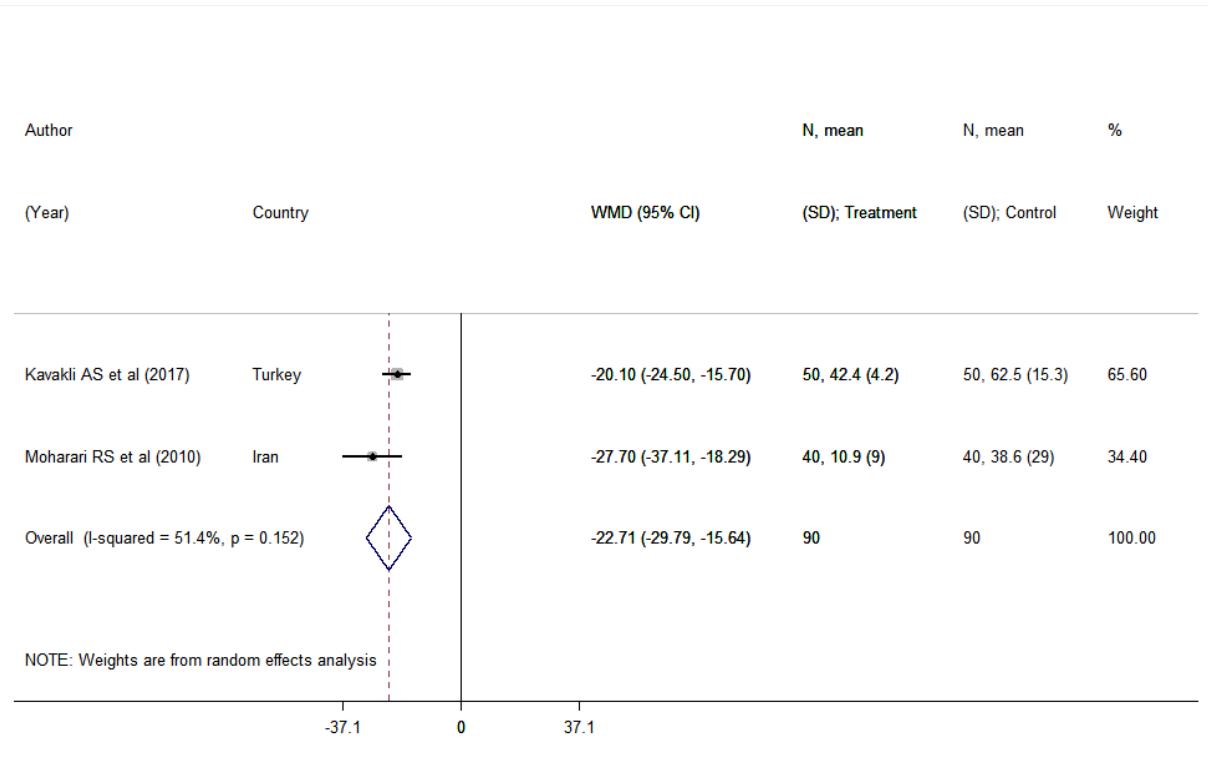
**Supplementary Figure 10 Comparison between conventional technique of NGT placement and endotracheal tube assisted placement in terms of mean time involved in insertion of nasogastric tube (in seconds).**



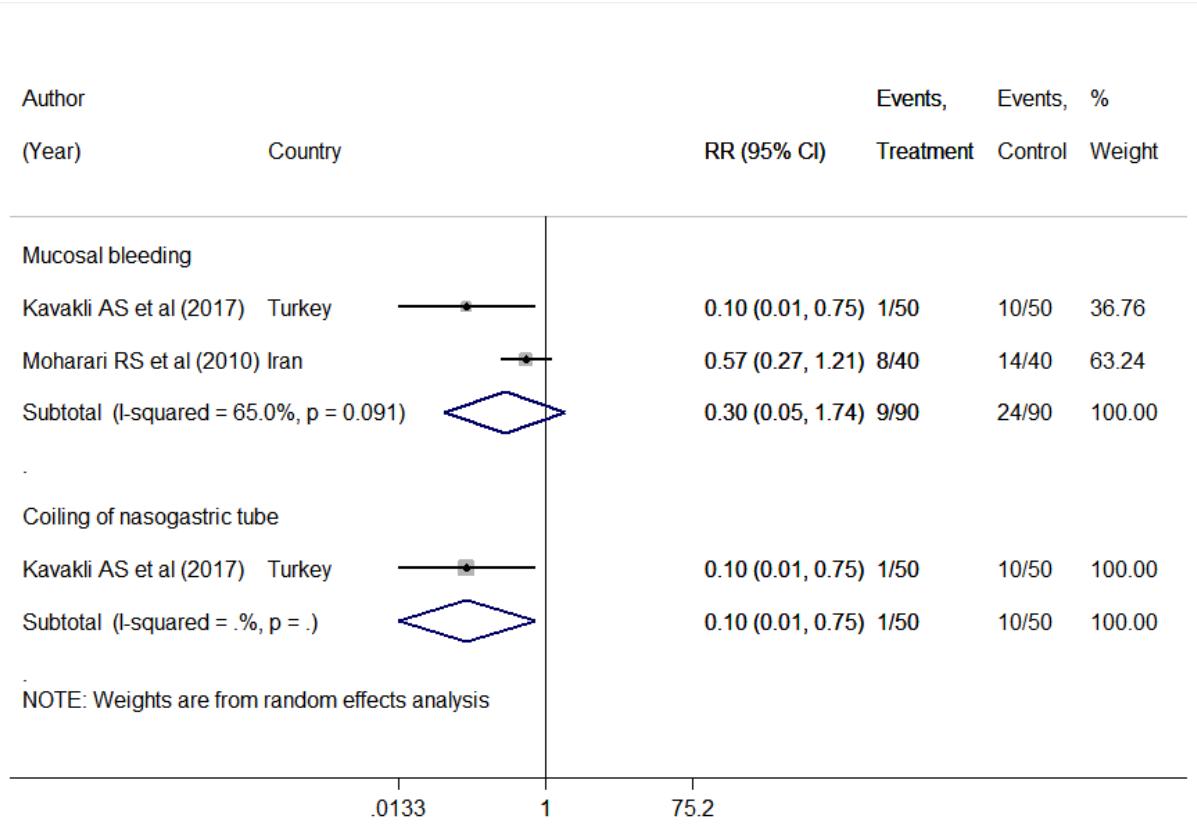
**Supplementary Figure 11 Comparison of complications between placement of nasogastric tube using conventional technique and endotracheal tube assisted placement of nasogastric tube.**



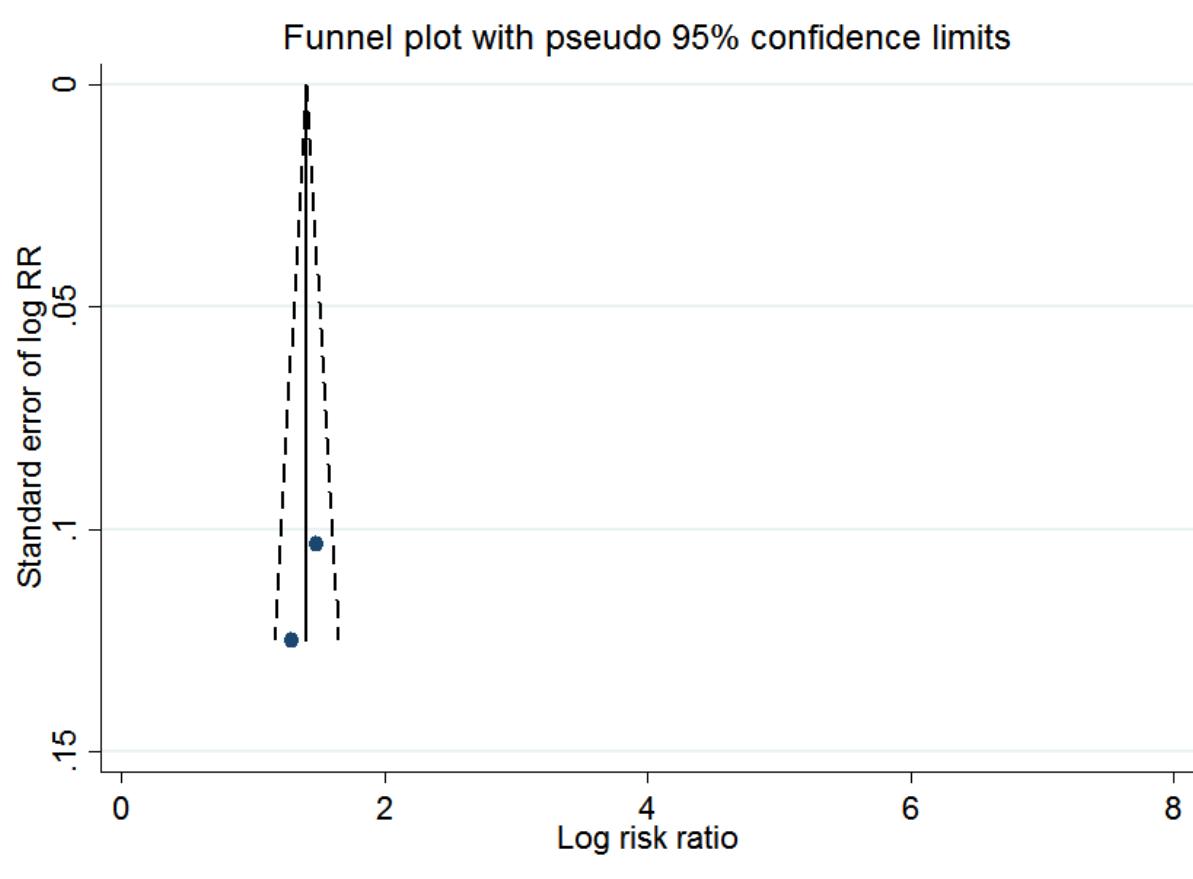
**Supplementary Figure 12** Funnel plot for publication bias with respect to overall successful insertion in comparison between conventional technique of nasogastric tube placement and endotracheal tube assisted placement.



**Supplementary Figure 13 Comparison between conventional technique of NGT placement and video-assisted placement in context of mean time involved in insertion of nasogastric tube (in seconds).**



**Supplementary Figure 14 Comparison of complications between placement of nasogastric tube using conventional technique and video-assisted placement of nasogastric tube.**



**Supplementary Figure 15** Funnel plot for publication bias with respect to overall successful insertion in comparison between conventional technique of nasogastric tube placement and video-assisted placement.

**Supplemental Table 1 Search strategy and results of PubMed database for identification of studies to be included in the review**

Search number	Query	Search details	Results
1	(nasogastric tube)	((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All Fields]) AND (technique)	3,069
		AND (((("methods"[MeSH Subheading] OR "methods"[All Fields]) OR "techniques"[All Fields]) OR "methods"[MeSH Terms]) OR "technique"[All Fields]) OR "technique s"[All Fields])	
2	(nasogastric tube)	((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All Fields]) AND (((("randomized controlled trial"[Publication Type] OR "randomized controlled trials as randomised controlled trial)[MeSH Terms]) OR "randomised controlled trial"[All Fields]) OR "randomized controlled trial"[All Fields])	622
3	(nasogastric tube)	((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All Fields]) AND (insertion success)	102
		AND (((((((((("insert"[All Fields] OR "insert s"[All Fields]) OR "inserted"[All Fields]) OR "inserter"[All Fields]) OR "inserters"[All Fields]) OR "inserting"[All Fields]) OR "insertion s"[All Fields]) OR "insertional"[All Fields]) OR "insertions"[All Fields]) OR "inserts"[All Fields]) OR "mutagenesis, insertional"[MeSH Terms]) OR ("mutagenesis"[All Fields] AND "insertional"[All Fields])) OR "insertional mutagenesis"[All Fields]) OR "insertion"[All Fields]) AND ((("success"[All Fields] OR "successes"[All Fields]) OR "successful"[All Fields]))	
4	(nasogastric tube)	((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All Fields]) AND (time)	1,381
		AND ("time"[MeSH Terms] OR "time"[All Fields])	

- 5 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 2,341  
AND Fields]) AND (((((((("complicances"[All Fields] OR "complicate"[All Fields]) OR "complicated"[All Fields])  
(complications) OR "complicates"[All Fields]) OR "complicating"[All Fields]) OR "complication"[All Fields]) OR  
"complication s"[All Fields]) OR "complications"[MeSH Subheading]) OR "complications"[All Fields])
- 6 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 3  
AND (reverse Fields]) AND (((((((("reversal"[All Fields] OR "reversals"[All Fields]) OR "reverse"[All Fields]) OR  
Sellick's) "reversed"[All Fields]) OR "reversely"[All Fields]) OR "reverses"[All Fields]) OR "reversibilities"[All  
Fields]) OR "reversibility"[All Fields]) OR "reversible"[All Fields]) OR "reversing"[All Fields]) OR  
"reversion"[All Fields]) OR "reversions"[All Fields]) AND ("sellick"[All Fields] OR "sellick s"[All Fields]))
- 7 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 19  
AND (frozen Fields]) AND (((("freezing"[MeSH Terms] OR "freezing"[All Fields]) OR "frozen"[All Fields]) AND  
tube) "tube"[All Fields]))
- 8 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 9  
AND (neck Fields]) AND (("neck"[MeSH Terms] OR "neck"[All Fields]) AND ((("flexion"[All Fields] OR "flexional"[All  
flexion) Fields]) OR "flexions"[All Fields])))
- 9 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 8  
AND (video- Fields]) AND "video-assisted"[All Fields]  
assisted)
- 10 (nasogastric tube) (((("nasogastral"[All Fields] OR "nasogastric"[All Fields]) OR "nasogastrically"[All Fields]) AND "tube"[All 16  
AND Fields]) AND ((("endotracheal"[All Fields] OR "endotracheally"[All Fields]) AND "tube"[All Fields] AND  
((((((((("assistance s"[All Fields] OR "assistant s"[All Fields]) OR "assistants"[All Fields]) OR

(endotracheal tube assisted) "assisted"[All Fields] OR "assisting"[All Fields] OR "assistive"[All Fields] OR "dental assistants"[MeSH Terms]) OR ("dental"[All Fields] AND "assistants"[All Fields])) OR "dental assistants"[All Fields] OR "assistant"[All Fields] OR "helping behavior"[MeSH Terms]) OR ("helping"[All Fields] AND "behavior"[All Fields])) OR "helping behavior"[All Fields] OR "assist"[All Fields] OR "assistance"[All Fields]) OR "assists"[All Fields]))

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## **Supplementary Table 2 Author's evaluation of risk of bias based on the Cochrane risk of bias assessment items**

