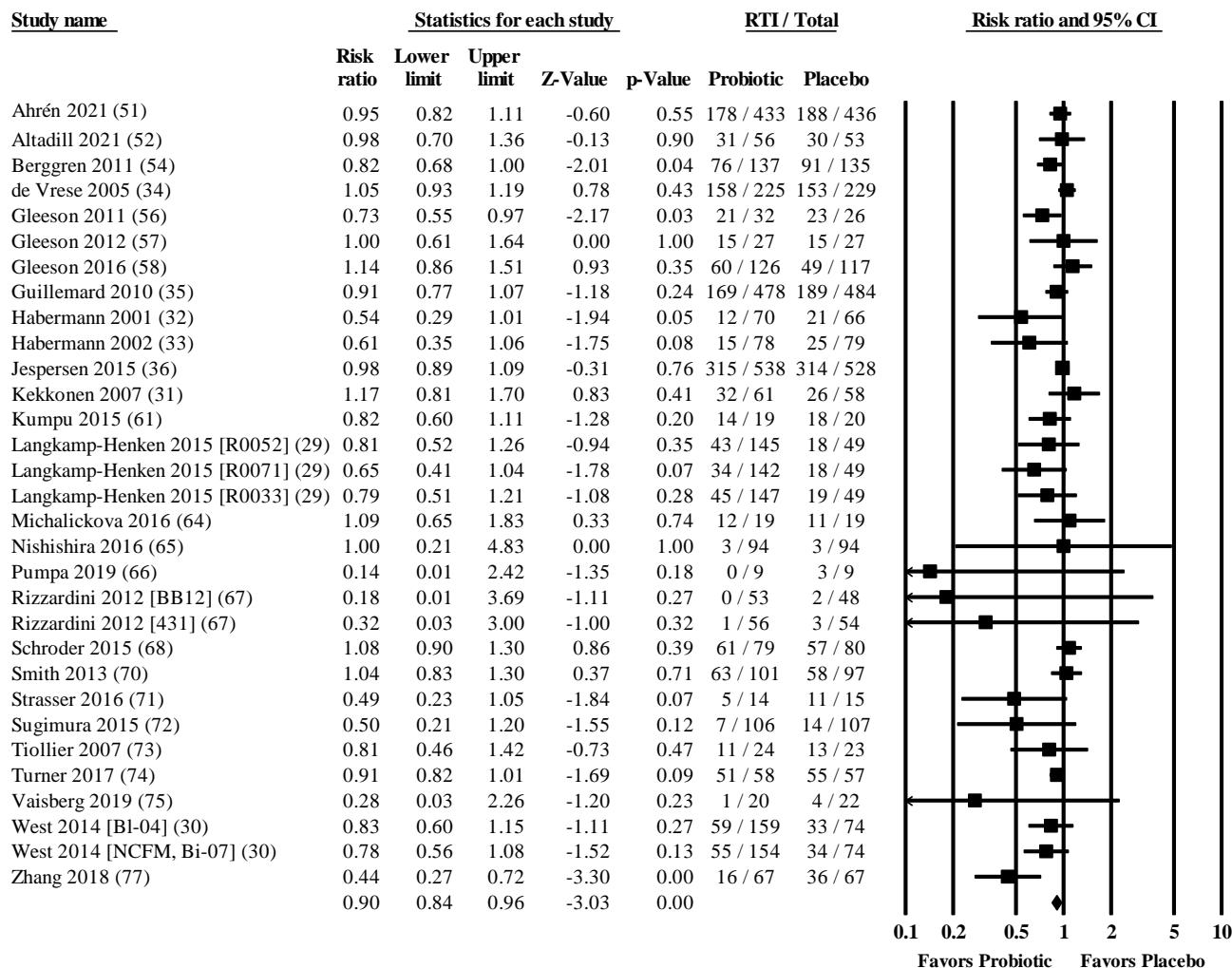
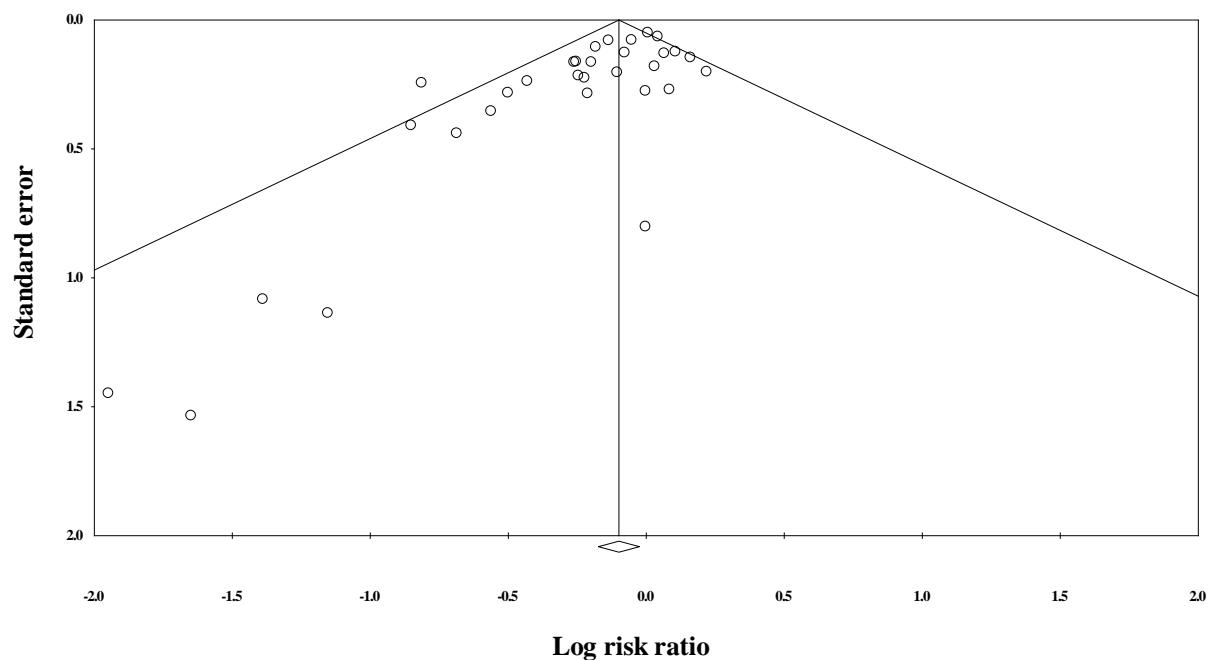


Supplemental Figure 1



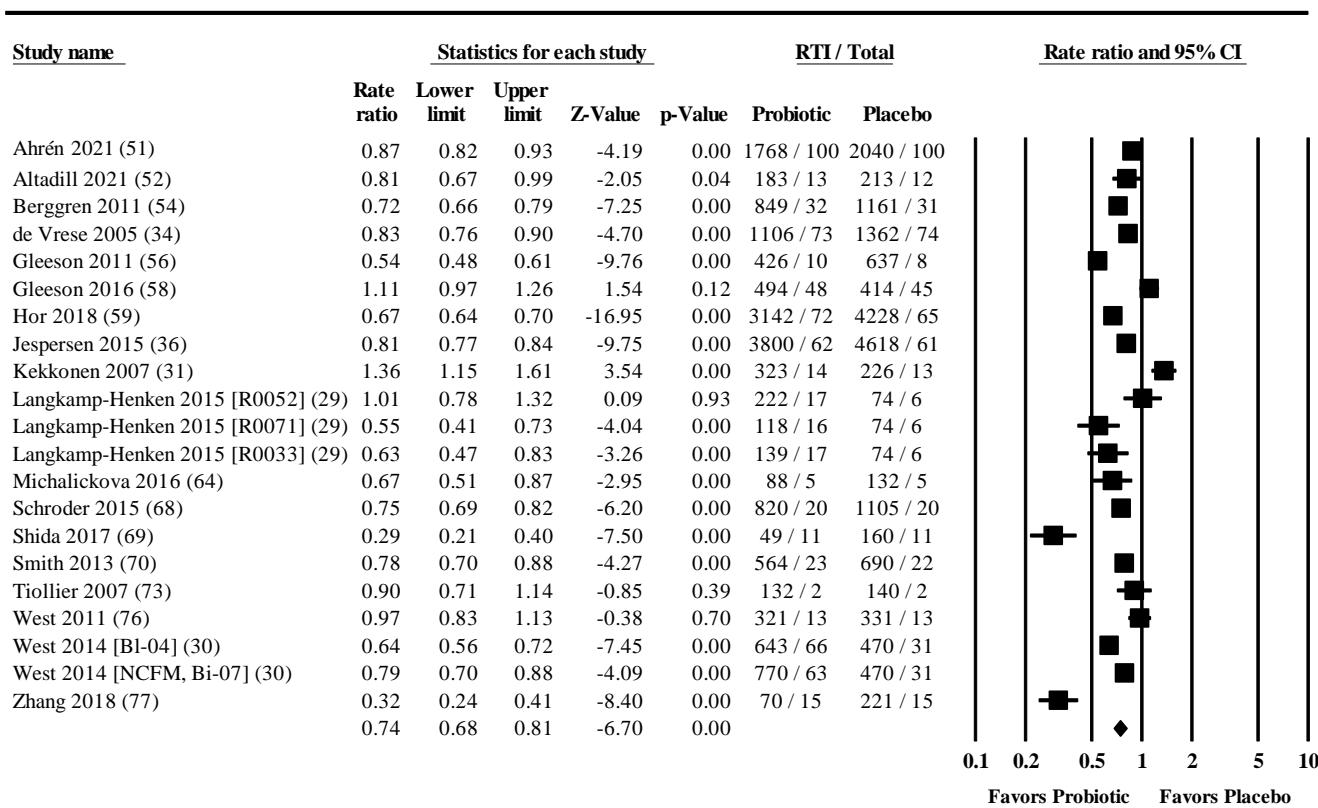
Supplemental Figure 1. Forest plot for the effects of probiotics versus placebo on the risk of experiencing one or more respiratory tract infections in non-elderly adults. Per protocol random effects meta-analysis using DerSimonian and Laird inverse variance method. Data extracted for Jespersen et al. (36) and Guillemard et al. (35) reflect incidence of upper respiratory tract infections. Lower and upper limits are the 95% CI. Individual study effect estimates (squares; sized by study weight) and pooled effects (diamond) are plotted. Heterogeneity from the fixed effect model: $I^2 = 36.0$, $P = 0.03$. RTI, number of individuals experiencing one or more RTI; Total, number completing study.

Supplemental Figure 2



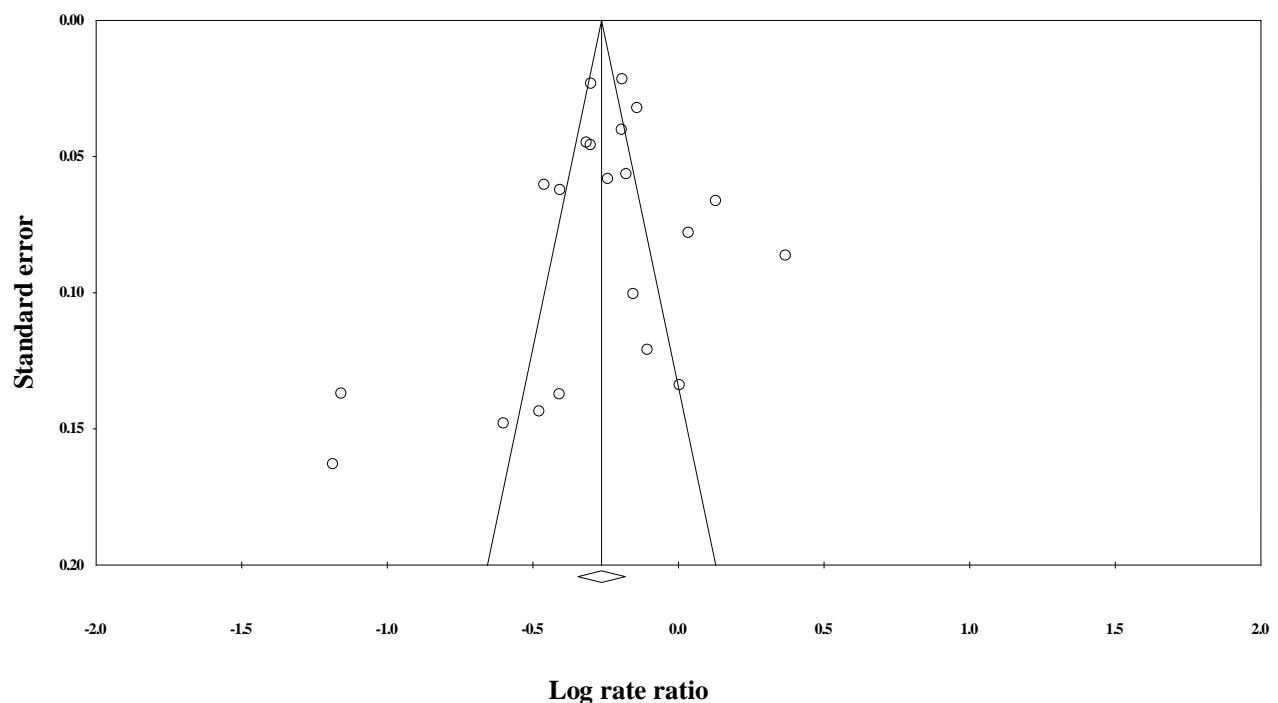
Supplemental Figure 2. Funnel plot for intention-to-treat analysis of effects of probiotics on the risk of experiencing one or more respiratory tract infections in non-elderly adults.

Supplemental Figure 3



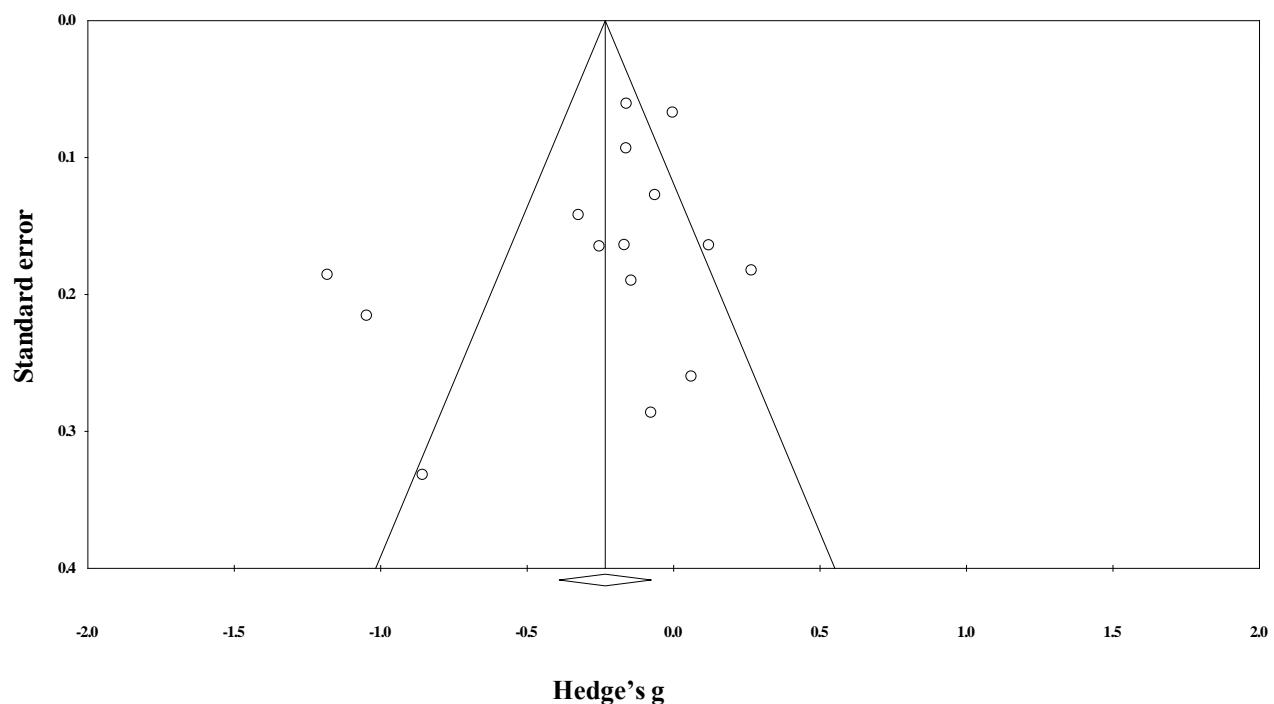
Supplemental Figure 3. Forest plot for the effects of probiotics on the total days of illness due to respiratory tract infection (RTI) in non-elderly adults. Per protocol random effects meta-analysis using DerSimonian and Laird inverse variance method. Lower and upper limits are the 95% CI. Individual study effect estimates (squares; sized by study weight) and pooled effects (diamond) are plotted. Heterogeneity from the fixed effect model: $I^2 = 92.7$, $P < 0.001$. RTI, total days of RTI; Total, total person years of exposure.

Supplemental Figure 4



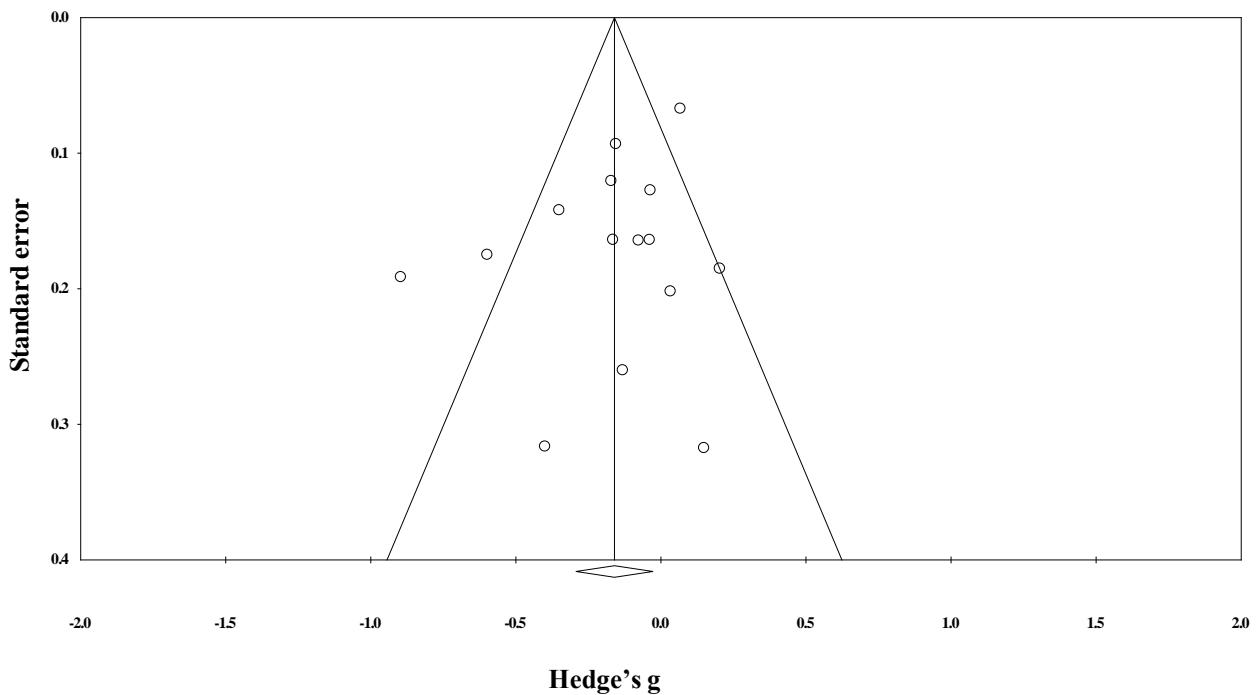
Supplemental Figure 4. Funnel plot for intention-to-treat analysis of effects of probiotics on the total number of days experiencing a respiratory tract infection in non-elderly adults.

Supplemental Figure 5



Supplemental Figure 5. Funnel plot for per protocol analysis of effects of probiotics on the duration of respiratory tract infection episodes in non-elderly adults.

Supplemental Figure 6



Supplemental Figure 6. Funnel plot for per protocol analysis of effects of probiotics on the severity of respiratory tract infections in non-elderly adults.

Supplemental Figure 7. Risk of bias assessment for all studies included in systematic review on effects of probiotics, prebiotics and synbiotics on the incidence, duration and severity of respiratory tract infections in non-elderly adults. Assessed using the Cochrane risk-of-bias assessment tool version 2.0. Plot produced using *robvis* (McGuinness LA and Higgins, JPT. Risk-of-bias VISualization (*robvis*): An R package and Shiny web app for visualizing risk-of-bias assessments. Res Syn Meth. 2020; 1-7; <https://mcguinlu.shinyapps.io/robvis/>).



Domains:
D1: Bias arising from the randomization process.
D2: Bias due to deviations from intended intervention.
D3: Bias due to missing outcome data.
D4: Bias in measurement of the outcome.
D5: Bias in selection of the reported result.

Judgement:
High (Red circle)
Some concerns (Yellow circle)
Low (Green circle)