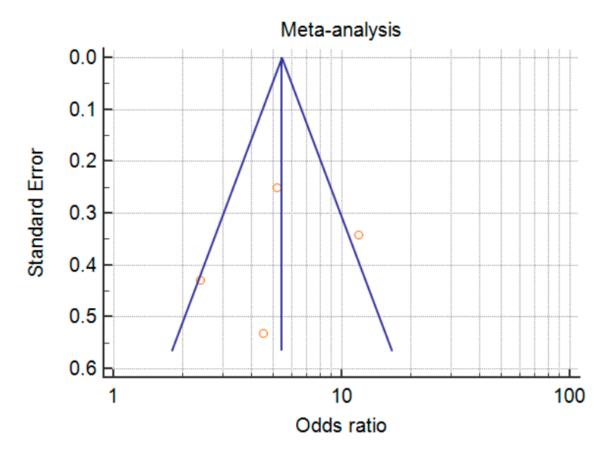
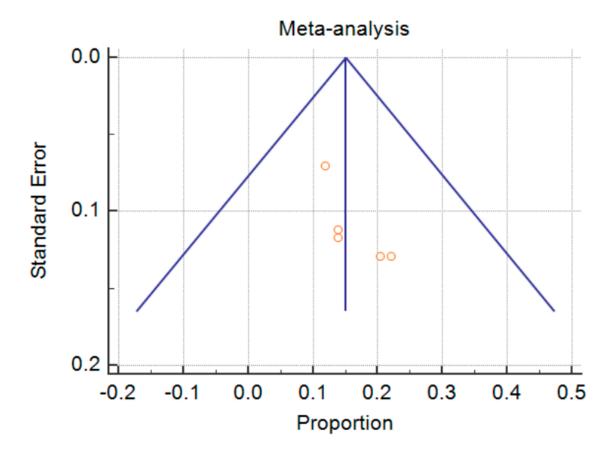


Supplementary Figure S1. funnel plot of enrolled studies investigating the prevalence of olfactory and gustatory abnormalities.



Supplementary Figure S2. funnel plot of enrolled studies investigating the prevalence of olfactory and gustatory abnormalities as initial symptoms.



Supplementary Figure S3. funnel plot of enrolled studies investigating the prevalence of olfactory and gustatory abnormalities between COVID-19 and controls.