

Tilmelding af Foredrag

Foredragets titel

Head-to-head comparison of nasopharyngeal, oropharyngeal and nasal swabs for SARS-CoV-2 molecular testing

Forfatter(e)

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Uddannelsesniveau

HU

Introduktion

Nasopharyngeal swabs (NPS) are considered the gold standard for SARS-CoV-2 testing but are technically challenging to perform and associated with discomfort. Alternative specimens for vi-ral testing, like oropharyngeal swabs (OPS) and nasal swabs, may be preferable, but strong evi-dence regarding their diagnostic sensitivity for SARS-CoV-2 testing is still missing.

Materiale/metode

We conducted a head-to-head prospective study to compare the sensitivity of NPS, OPS and nasal swabs speci-mens for SARS-CoV-2 molecular testing. Adults with an initial positive SARS-CoV-2 test were in-vited to participate. All participants had OPS, NPS and nasal swab performed by an otorhino-laryngologist.

Resultater

We included 51 confirmed SARS-CoV-2-positive participants in the study. The sensitivity was highest for OPS, 94.1% (95% CI, 87 to 100%) compared to NPS, 92.5% (95% CI, 85 to 99%) (P=1.00) and lowest for nasal swabs, 82.4% (95% CI, 72 to 93%) (P=0.07). Combined OPS/NPS detected 100%, while the combined OPS/nasal swab increased the sensitivity significantly to 96.1% (95% CI, 90 to 100%) compared to the nasal swab alone (P=0.03). The mean Ct value for NPS was 24.98 compared to 26.63 for OPS (P=.084) and 30.60 for nasal swab (P=.002).

Diskussion

OPS achieved a sensitivity comparable to NPS and should be considered an equivalent alternative for SARS-CoV-2 testing.

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Årsmøde DSOHH 1/1