

SELF-ADMINISTERED HEARING TESTS IN THE COVID-19 ERA

A QUALITY IMPROVEMENT PROJECT

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Aim: To assess the accuracy and usability of three self-administered hearing tests to find a suitable hearing screening tool to trial.



On average, pure tone audiometry is carried out over 700 times every month in NHS Audiology services, but this was disrupted by the COVID-19 pandemic.

Methods



30 participants – 60 ears (48 normal hearing).



Three self-administered hearing tests: Mimi Hearing Test, Shoebox Online and HearingTest.Online, were compared to Pure Tone Audiometry audiograms.



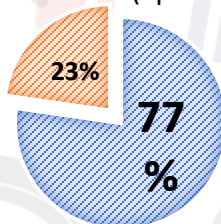
Usability questionnaire completed for each self-administered hearing test.

Hearing Test



Accuracy

(Specificity)



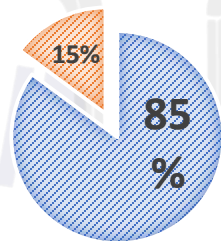
■ True Negative
■ False Positive

Usability

(Mean usability scores: 5 = highest usability)



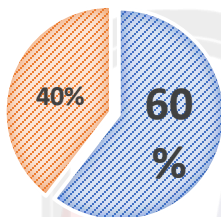
SHOEBOX
ONLINE



■ True Negative
■ False Positive



hearingtest.online

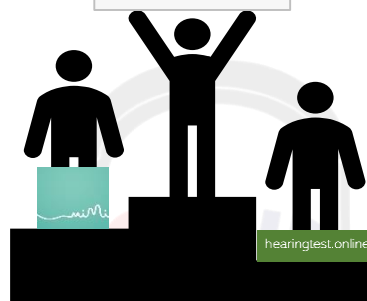


■ True Negative
■ False Positive



- ✓ Managing patient backlog
- ✓ Prioritising patients
- ✓ Reducing unnecessary appointments
- ✗ Non-diagnostic
- ✗ Not suitable for all patients

SHOEBOX
ONLINE



Next phase: to trial Shoebox Online with selected patient cohorts.