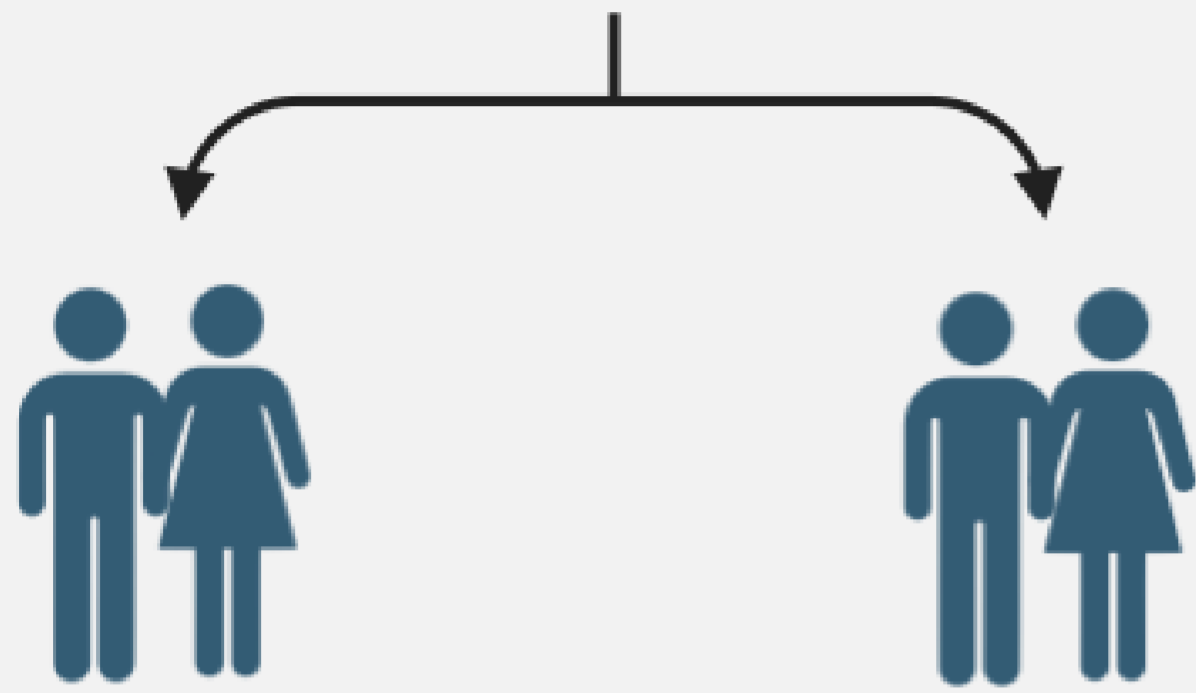


# Nasal septal perforation (NSP) has a negative impact on olfactory and trigeminal function



Cross sectional study (2017 - 2024)



123

symptomatic NSP

74

healthy controls



NSP size and position: nasal endoscopy + CT scan

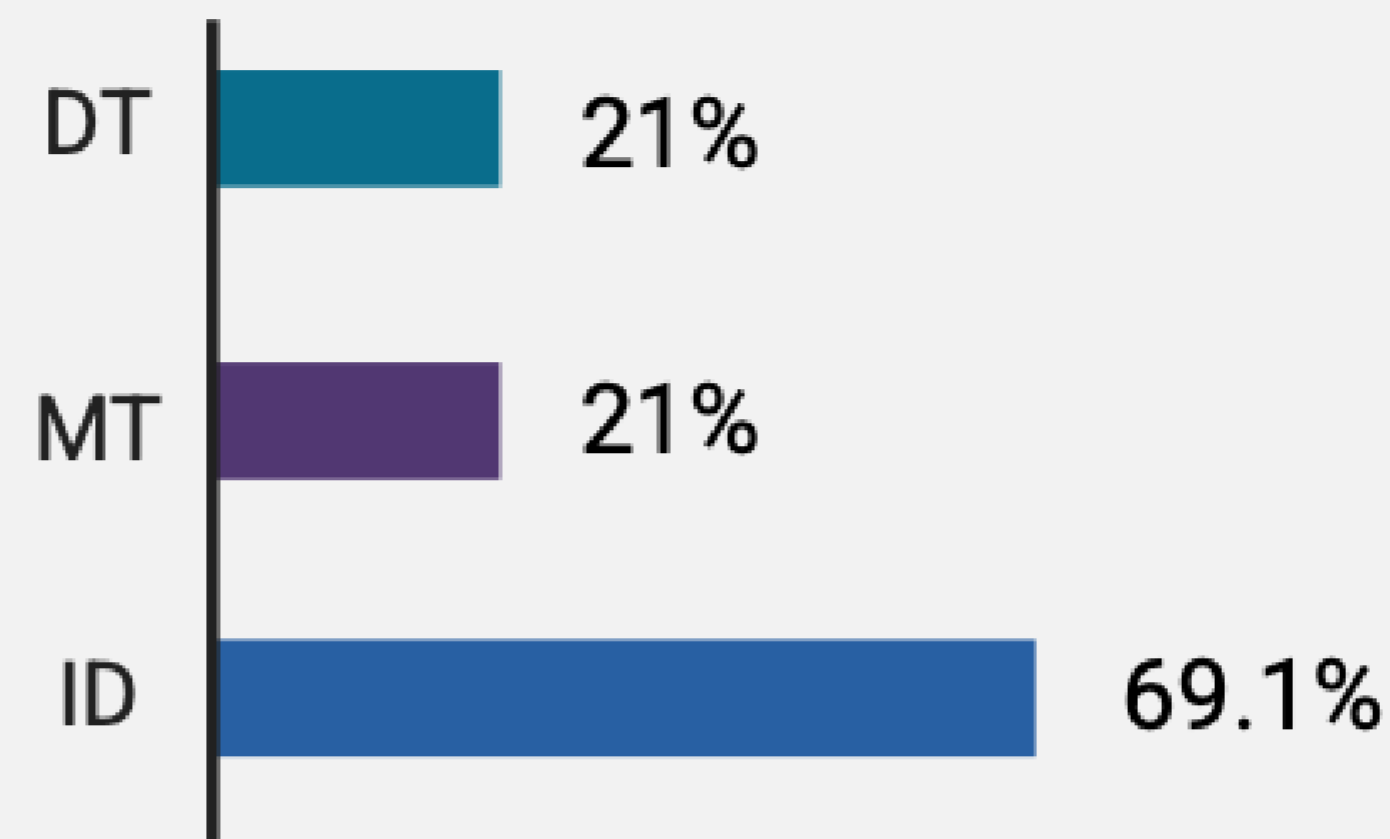


Symptoms: smell loss VAS + SNOT-22 + NOSE-Perf

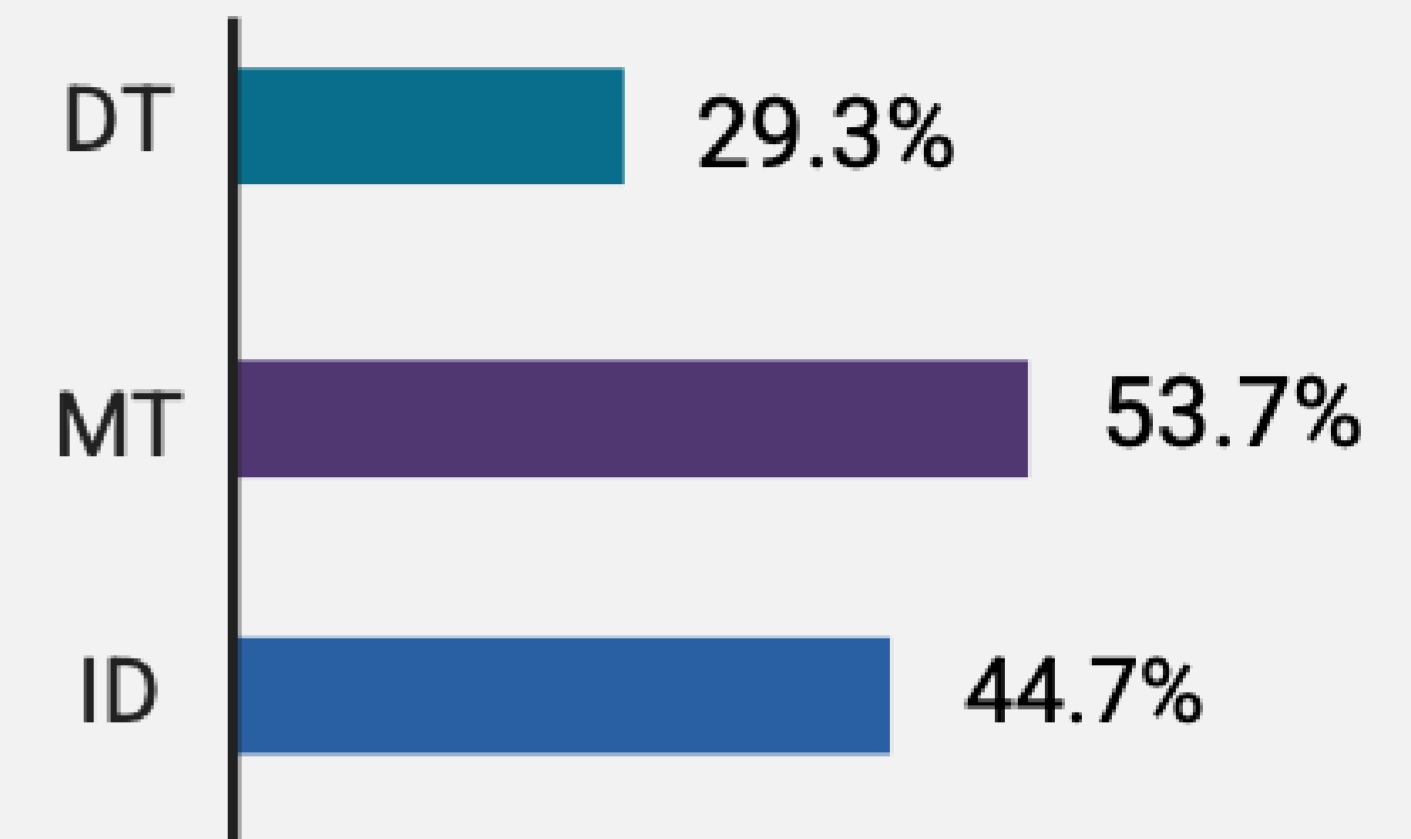


Olfactory and trigeminal function: BAST-24

## Olfactory impairment



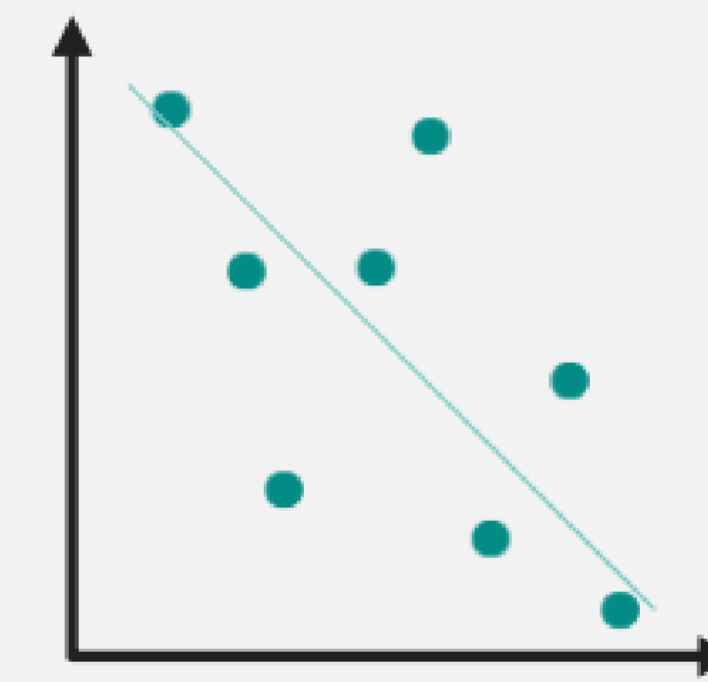
## Trigeminal impairment



## Olfactory identification

Larger NSP area ( $p=0.013$ )

Higher BMI ( $p=0.018$ )



Smell loss VAS  
SNOT-22 (item 21)  
NOSE-Perf (item 10)

- NSP significantly affects olfactory and trigeminal function
- Larger NSP area and higher BMI are associated with diminished odour identification
- Sensory evaluation should be included in NSP assessment