CKD patients attending the Nephrology clinic, hemodialysis and peritoneal dialysis centre (AOVR).
Screening period between February 1, 2019 and February 1, 2020

Exclusion criteria
- Age <18 years
- MoCA < 25
- SNOT22 >22
- Beta-blocker or estroprogestinic pills assumption
- History of smoke
- Previous nasal surgery
- Malignancies or severe liver disease
- Asthma or allergic condition
- Congestive heart failure
- Parkinson disease

Study population (n=208)

Non-Dialysis CKD (n=51)
Hemodialyzed patients (n=49)
Peritoneal dialysis patients (n=30)
Kidney transplant recipients (n=50)
Healthy subjects (n=55)