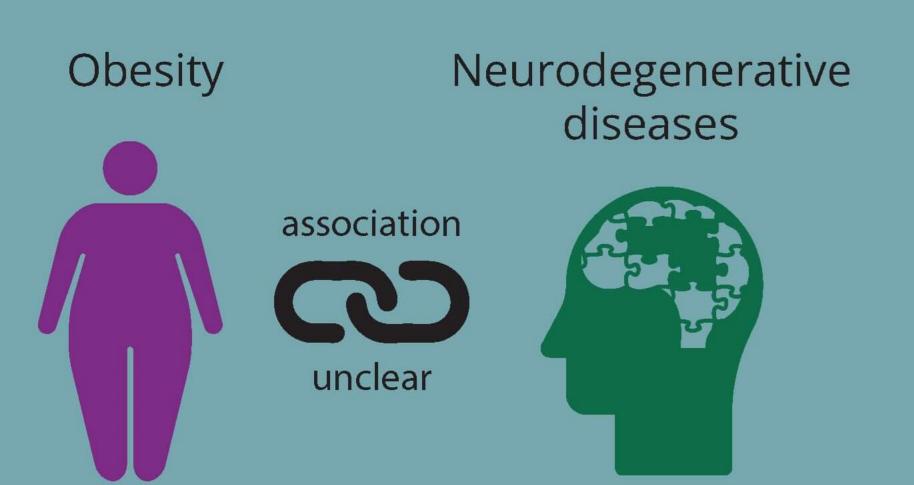
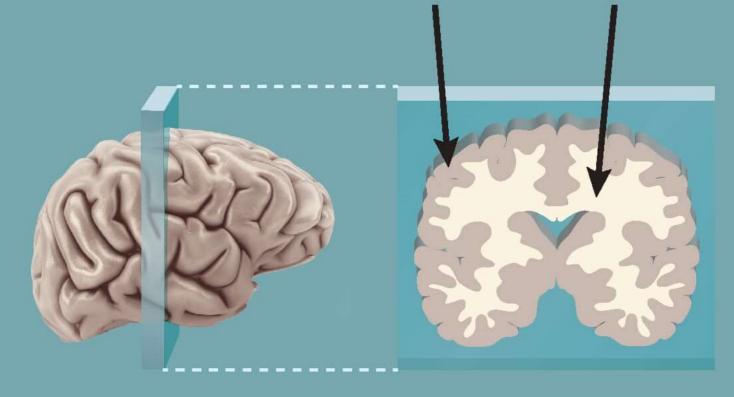
Does obesity put your brain at risk?



Structural alterations of GREY/WHITE matter...

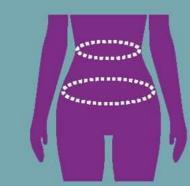


...linked to neurodegenerative diseases.

Body mass index (BMI)



→ Waist-hip-ratio
(WHR)



are separately associated with lower grey matter volume.

Study question



Are both BMI and WHR associated with lower grey matter brain volume?

UK Biobank study

n=9652

Age: 55.4 ± 7.5 yrs



Obesity measured: Bioimpedance

- •BMI
- •WHR
- Total fat

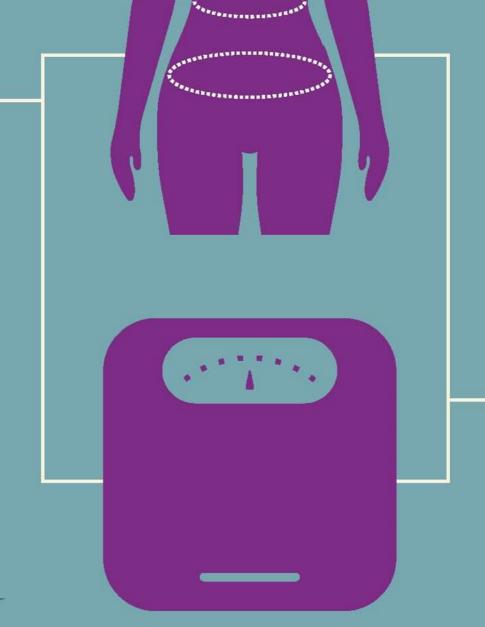


Grey matter volume measured:

Structural magnetic resonance imaging

Obesity measures





18.7% obese

Obesity measures had additive effect only in obese participants (BMI ≥30 kg/m²).

Combination of high BMI and WHR puts people at greatest risk of grey matter atrophy.