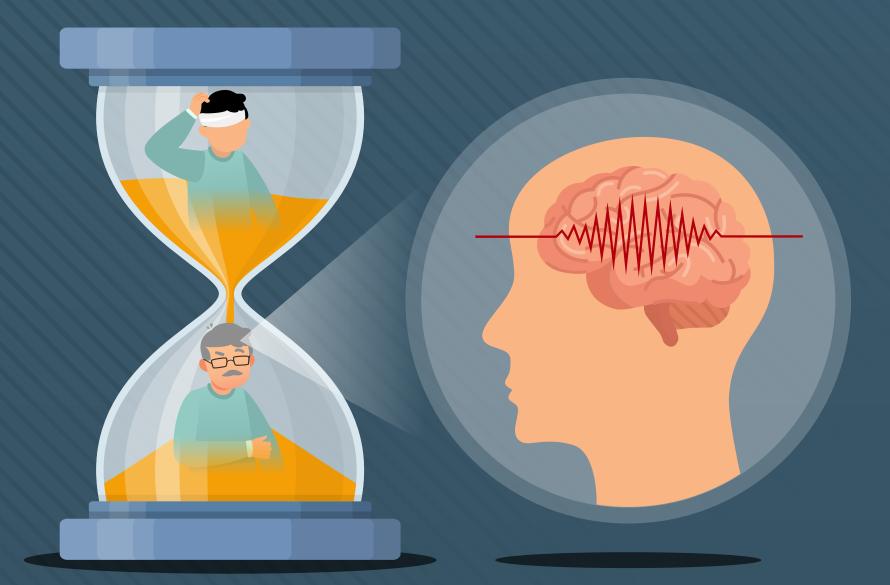
Prior Head Injury and Late-Onset Epilepsy: Is There a Connection?

Head injury is a risk factor for epilepsy



However, the degree to which prior head injury may play a role in late-onset epilepsy (LOE) is not clear

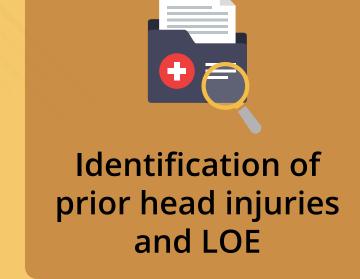
Study question

Is prior history of head injury associated with subsequent LOE?



Participants from the 'Atherosclerosis Risk in Communities Study' (N = 8,872)





Evaluation of association between LOE and head injuries





Estimation of adjusted hazard ratio (HR)

Increased risk of LOE after prior head injury



HR = 1.88(95% confidence interval (CI) = 1.44 - 2.43

Older age increased the risk of head injury with LOE

<67 years with prior head injury

(HR = 0.98;95% CI = 0.68-1.41)



≥67 years with prior head injury

(HR = 4.01;95% CI = 2.91-5.54



Compared to no head injury, number and severity of prior injuries increased risk of LOE

1 prior head injury



>2 prior head injuries



(HR = 1.37; 95% CI = 1.01-1.88) (HR = 3.55; 95% CI = 2.51-5.02) (HR = 2.53; 95% CI = 1.83-3.49) (HR=4.90, 95% CI 3.15-7.64)

Mild head injury



Moderate/severe head injury



Prior history of head injury, especially repeated and more severe head injuries, was associated with LOE

