

EFFECTS OF OLDER AGE ON **EYEWITNESS MEMORY**

Cognitive Development and the Law

WHY DO WE CARE?

- Compelling evidence. Eyewitness memory can be the main source of evidence in criminal cases. [28]
 - Eyewitness memory: memory for a crime or dramatic event that he or she witnessed. [36]
- Wrongful convictions. Falsely identifying someone can lead to an innocent person being punished and the criminal going free. Eyewitness testimony accounts for **70%** of **358 wrongfully convicted** in the US (Innocence Project). [35]







- More likely to accept false information as true. [3]
- More likely to claim remembering false information. [9]
- More likely to be **misled** by **false information**. [13]
- More likely to have **false memories** of an **event**. [4]
 - More likely to **identify** the **wrong person**. [5] • More lenient when identifying people. [6]
- More confident in their responses. [14]
- Reduced source memory: memory for the origin of information. [1]
 - Reduces accuracy of source attributions: assigning information to its source. [15, 2]
 - Less accurate in determining who did what in an event. [7]
- Reduced working memory capacity, which allows us to hold and use information. [10]
- Decline in **memory** for **details**, leading to **false recognition**. [25]
- Rely on **gist** and **plausibility** of information. [11]
 - The **gist** of information is **automatic** and **preserved** with age. [12]

ARE OLDER ADULTS ALWAYS LESS **RELIABLE WITNESSES?**

- A similar ability to young adults in identifying the correct person. [8]
- Possibly more accurate when identifying someone in own age group (own-age bias). [21]
- When the **event** is very **short**, older adults may be **more resistant** to **suggestion** as they are less likely to encode (learn) the misinformation (false or inaccurate information). [30, 24, 29]
 - Observed for **cued-recall:** remembering using **hints**. [31]
 - Younger adults able to encode information easier, including misinformation, or they might use certain **strategies** to remember the misinformation. [33]



IMPROVING THE RELIABILITY OF OLDER



- Sequential over simultaneous lineups. Encourage absolute judgements over relative judgements. [18]
 - Sequential lineup: a lineup in which each member is presented one at a time. Absolute judgement: witness compares each member of the lineup with his
 - or her **memory** of the **perpetrator** to decide who the culprit is. [16] Reduces identifications of innocent people by reducing choosing rate. [22]

 - Encourages more strict identification criteria. [19]
 - Simultaneous lineup: a lineup in which all members are presented at once. [27]
 - Relative judgement: witness compares each member of the lineup to each **other** and decides who **most closely resembles** the perpetrator. [17]
 - Pre-lineup questions. Encourage eyewitnesses to be more cautious and reduce the feeling that they have to choose someone. [20]
- Pre-lineup instructions. Inform the witnesses that the culprit may or may not be present and aid witnesses in remembering these instructions. [23]
- Context reinstatement. Mentally recreate the environment surrounding the event through interviews, instructions, or photographs. [34]
- Assess free recall first. This allows the older adult to tell their story without planting suggestions during direct questioning. After this, use open-ended questions. [32]







