NUHS SLEEP STUDY

Protocol Details

Lab Visit Briefing





Yong Loo Lin School of Medicine





Ecological Momentary Assessment App

User Guide V1.0

Daily Z4IP tasks

Complete 1x daily

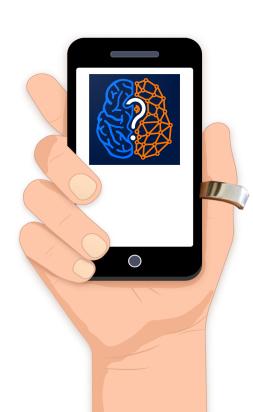
Between <mark>5 am – 10 pm</mark>: (optimally approx. 30 mins after wake.)

- **Cognitive tests** comprising **3** simple and short games
- Short questionnaire assessing your sleep and well being

Approx. 6 mins per session

Complete at any time during the day:

• <u>**Time-use diary**</u> (last 3 days are editable)



On-the-go Cognitive Assessment Tool

 Test your cognitive performance using simple and short games (~5 minutes for each session)

1. Symbol Search

2. Dot Memory

3. 3-min PVT



5-min / Session

When completing the games..

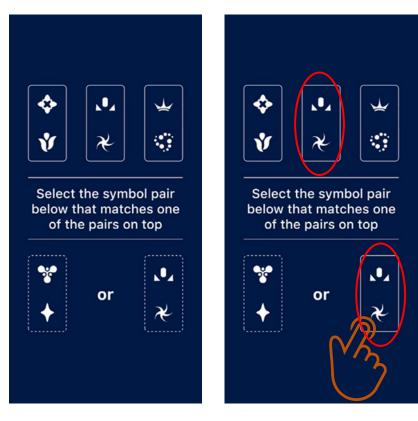


• Sit in an **<u>upright</u>** position



 Hold the phone in your nondominant hand, <u>complete the</u> <u>game using your dominant hand</u>

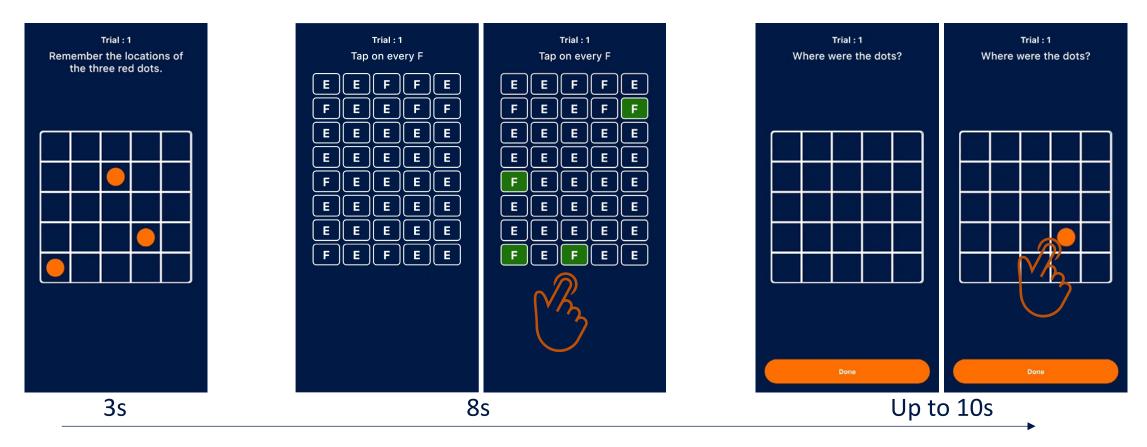
Game 1 – Symbol Search



Up to 12s

- 1. 5 pairs of symbols will be shown for each trial
- 2. Tap the pair below that matches one of the pairs above
 - * Try to be <u>as fast and as accurate</u> as possible!

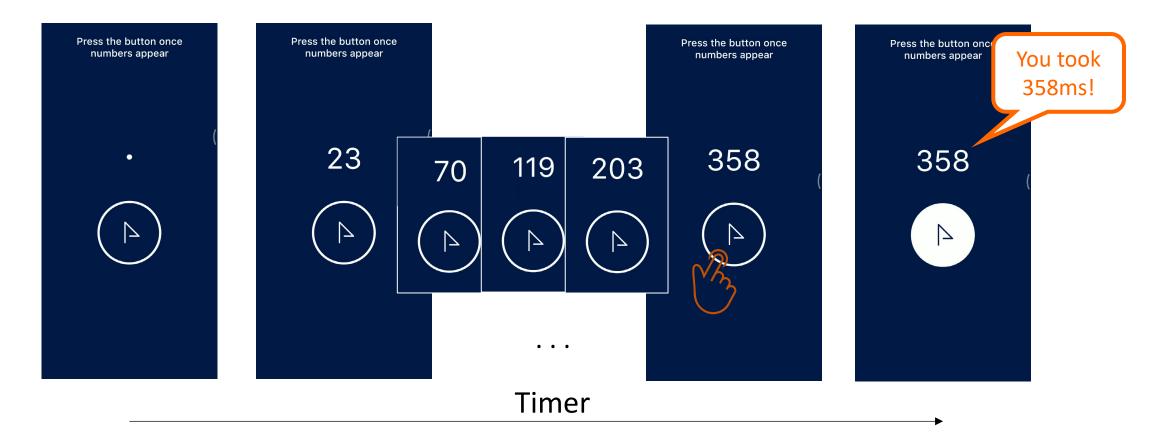
Game 2 - Dot Memory



- 1. Remember the locations of the three dots
- 2. Tap on every 'F' within the time limit
- 3. Place the dots back to where they were (tap once to place, tap again to remove)

* You need to identify enough hidden 'F's or else points from that trial won't count!

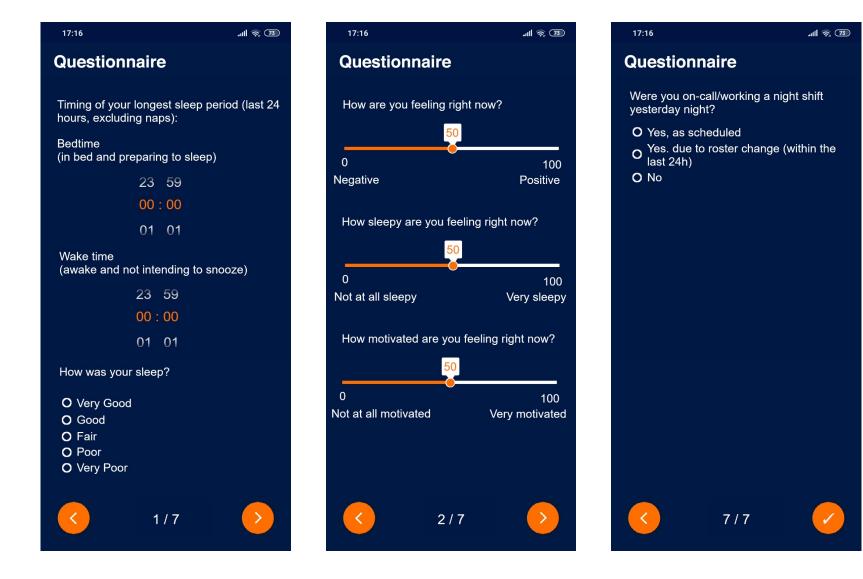
Game 3 – 3-min PVT



- 1. Tap the button as fast as you can once the numbers start appearing (timer starts)
- 2. The value at the point of your button press reflects your reaction time in milliseconds

* Try to be as fast as you can but don't tap until the timer starts!

Z4IP App: Short questionnaire



Z4IP App: Time-use diary





