



Digital Solutions

FROM MoCA COGNITION

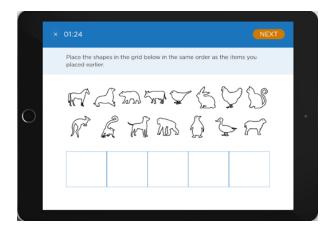
Early detection makes a difference.

MoCA ranked number 1 for Early AD
Delphi Global Consensus 2023

MoCA's portfolio of digital tools

for clinical research and future digital practices





Accurate: predicts likelihood of participant scoring below MoCA of 25

Rapid: completed in a few minutes

Scalable: self-administered, fully digital

delivery



Consistent: structured admin of trusted MoCA test

Inclusive: language of AI avatars can be switched to that of

participant

Focussed: psychometrist free to observe.





All the advances of Duo 2.0

Accurate: Al scoring

Scalable: Performed under

minimal supervision

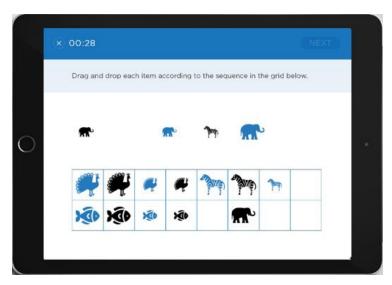


MoCA XpressO consists of three simple tasks

Placement Task (memory encoding)



Logical Task (executive function)

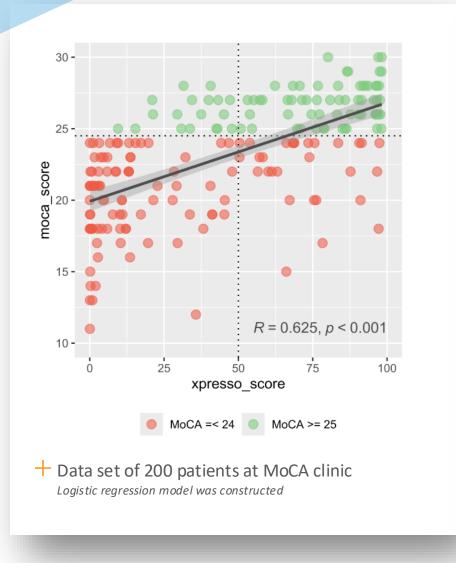


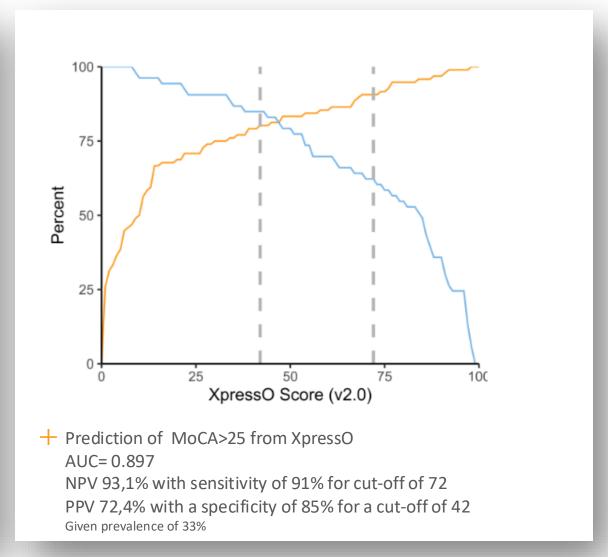
Recall Task (visual spatial memory)





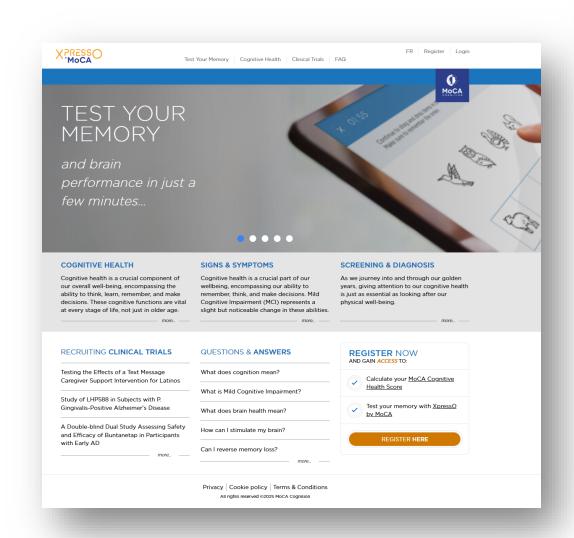
MoCA XpressO compares well to MoCA paper test

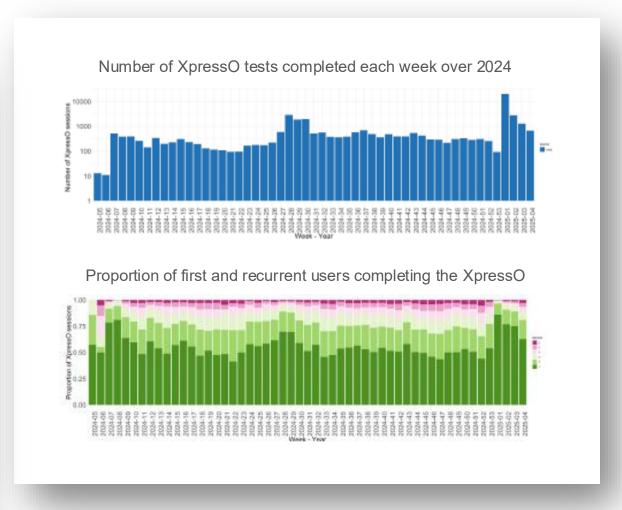






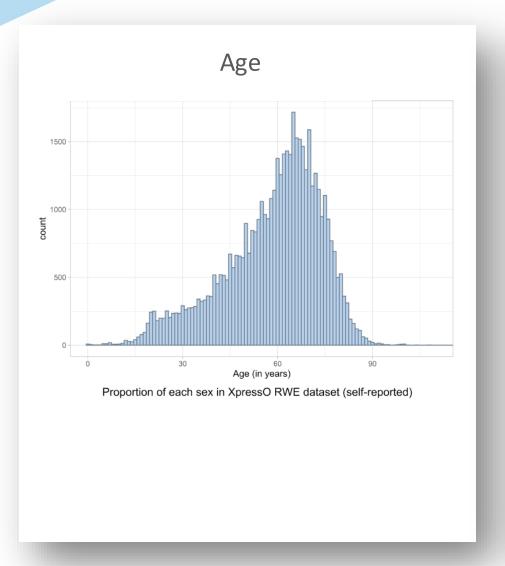
MoCA XpressO completed online by 50k people in 2024-25

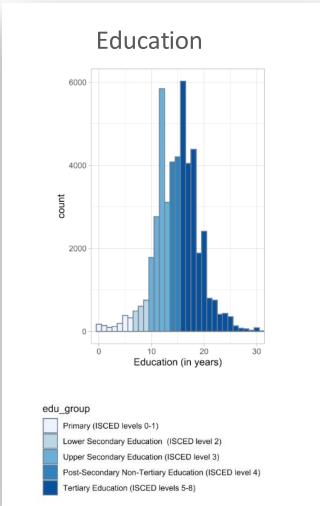


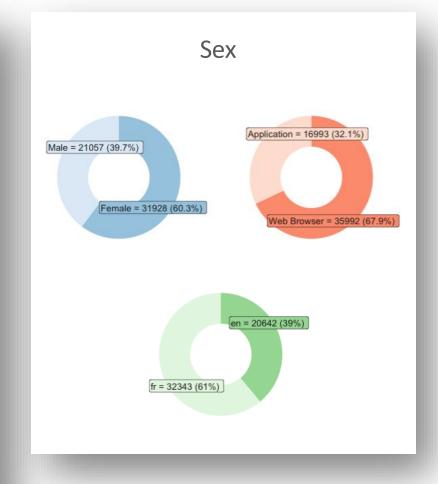




MoCA XpressO online community's demographics

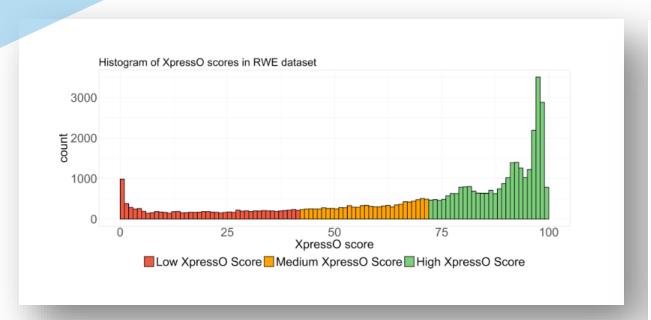




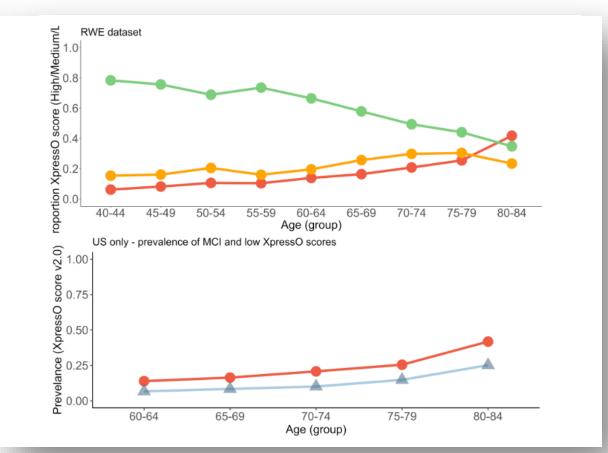




MoCA XpressO online community's cognition

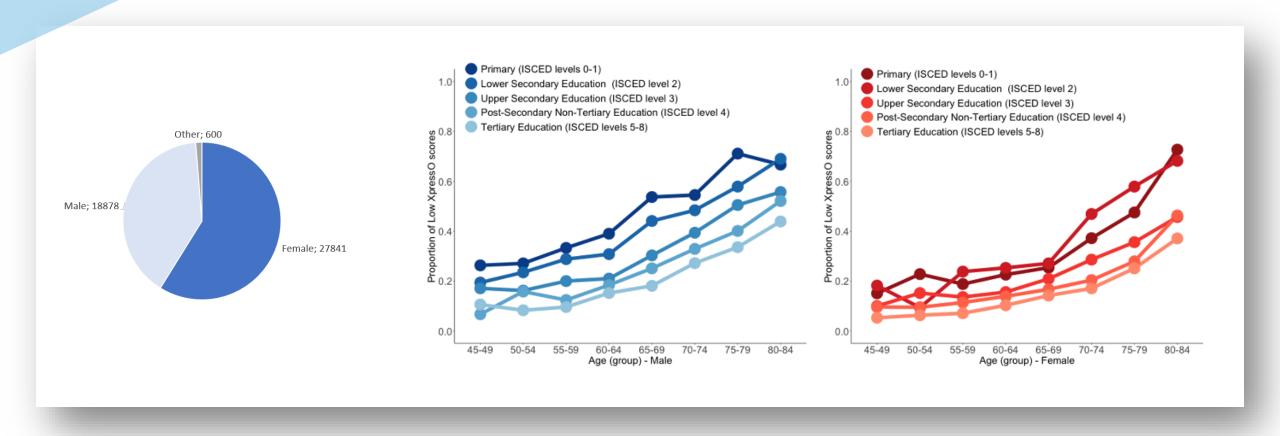


The relative proportion of low XpressO scores increases with age, in-line with the prevalence of MCI in the United States





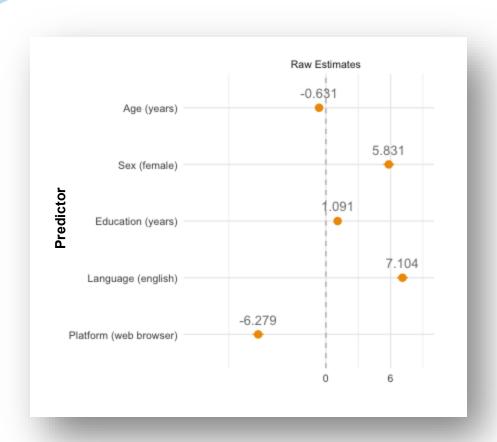
MoCA XpressO online community Sex and Education



Being female shifts increases the age where 50% of participants have a low XpressO by approximately 10 years



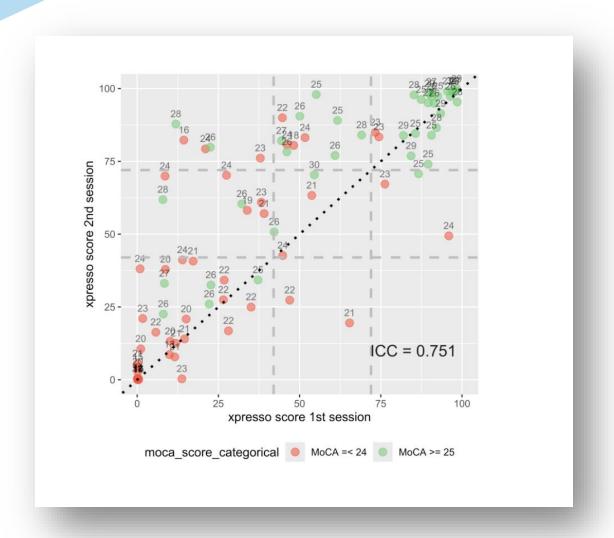
Compensating for age, education and sex removes any dependency on platform and language







Double XpressOs reveal an ICC of 0.751 for test-retest



See moderate learning effects

Next version of XpressO will feature rotation of stimui

ML algorithm will take into account session number



XpressO Poster for your clinic



ARE YOU CONCERNED ABOUT YOUR MEMORY?

Test yourself in only a few minutes with the XpressO app for peace of mind and meaningful next steps



Test yourself here!

Speak to the receptionist or with a healthcare professional to complete the XpressO test



Test yourself at home!

Scan the QR code with your smartphone to download the app on your smartphone or tablet



Complete the test on your web browser: www.mocaxpresso.com

Developed by the team behind the MoCA Test
www.mocacognition.com | www.mocaxpresso.com

Patients can test on-site or at-home

Keep track of their scores over time

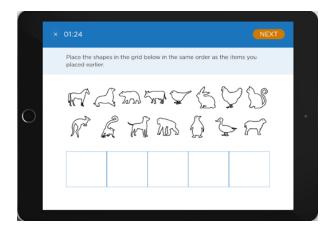
Red/yellow can prompt MoCA testing and further evaluation



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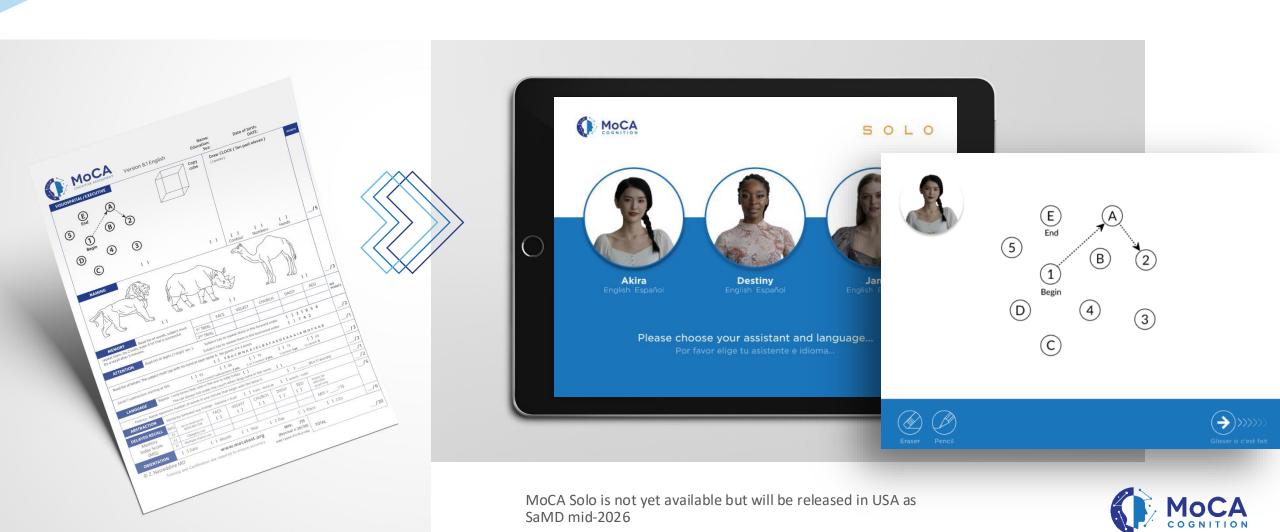
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MoCA Duo 2.0 has automated data collection, Solo will have extend to AI scoring



MoCA Solo for efficiency and accuracy



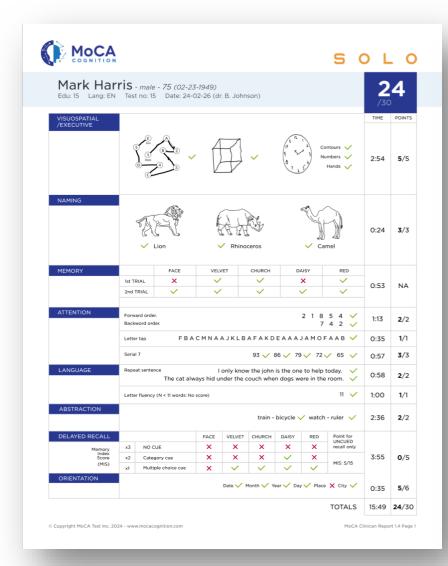
Designed for minimal supervision

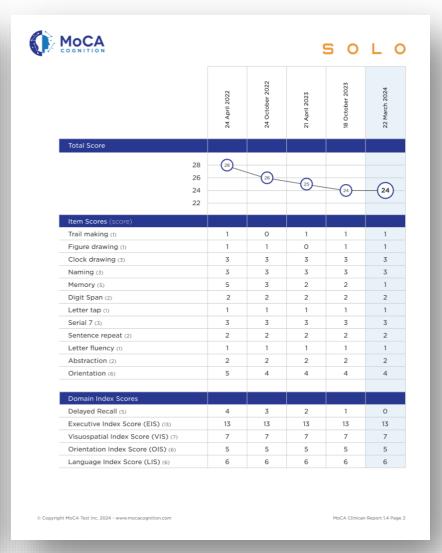
Automated data collection

Al scoring of answers



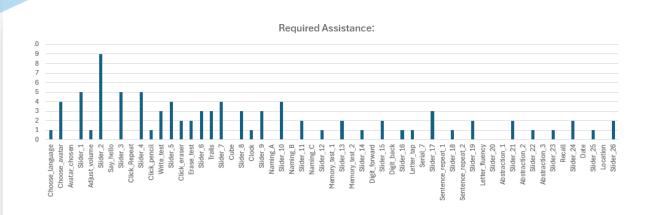
MoCA Solo report enables accurate longitudinal tracking

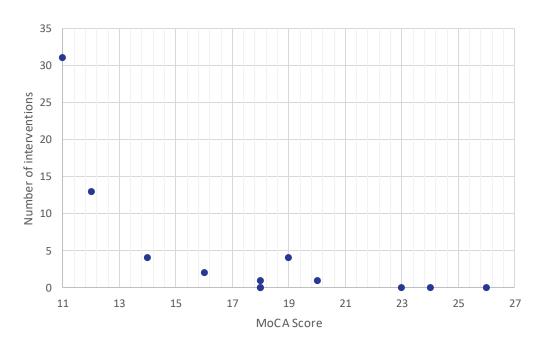


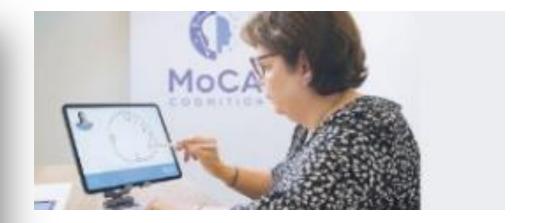




MoCA Solo automated administration UX







Current UX sufficient for >MoCA of 18

Minor user navigation issues identified and will be improved upon before validation

Algorithm development ongoing with several algorithms already at performance of humans



MoCA Solo: two important studies

Study 1:

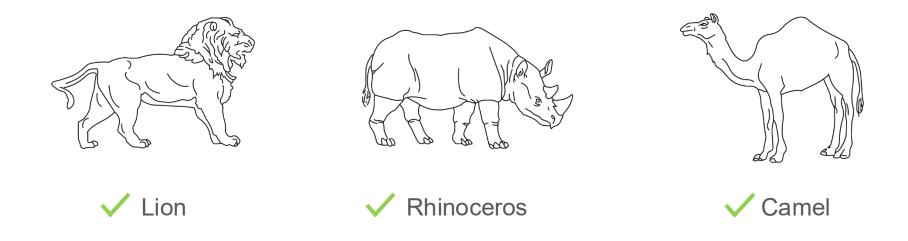
- + Construct validity to paper tests in both administration & scoring
- + Data collection for both English and Spanish algorithm validation
- + Subjects representative of US population: race, sex, age demographic.
- + N=750
- + Funding: ADDF & MoCA

Study 2:

- + Data collection in MoCA clinic
- + Dr Nasreddine's waiting list
- + Paper MoCA, Solo, XpressO, Blood Based Biomarkers (p-tau 217, amyloid ratios)
- + N=500
- + Funding: Lilly Canada & MoCA



MoCA Solo: New outcome measures from dynamics of drawing & speech





MoCA Digital Study Platform completes the cognition eco-system

