

Additional File 1: Baseline outcome scores by arm for meta-analyzed outcomes.**A. Cognition Performance**

Global cognition

Study	Instrument	Control (mean $\pm$ SD)	Digital RT (mean $\pm$ SD)
Moon & Park 2020	MMSE	15.11 $\pm$ 3.62	14.73 $\pm$ 4.04
Manav et al 2019	MMSE	21.44 $\pm$ 1.09	21.69 $\pm$ 1.14
Tominari et al 2021	MMSE	23.69 $\pm$ 1.38	23.65 $\pm$ 1.57
Zhao & Zhang 2018	MMSE	14.98 $\pm$ 3.08	14.34 $\pm$ 3.26
Perez et al 2021	MMSE	21.15 $\pm$ 3.38	21.05 $\pm$ 3.82

Memory

Study	Instrument	Control (mean $\pm$ SD)	Digital RT (mean $\pm$ SD)
Zhao & Zhang 2018	WHO–UCLA AVLT	1.85 $\pm$ 1.13	1.64 $\pm$ 1.13
Perez et al 2021	MAT	22.57 $\pm$ 8.9	23.45 $\pm$ 10

B. Mood

Study	Instrument	Control (mean $\pm$ SD)	Digital RT (mean $\pm$ SD)
Moon & Park 2020	CSDD	4.42 $\pm$ 3.52	6.14 $\pm$ 4.78
Tominari et al 2021	Revised PGC morale scale score	14.2 $\pm$ 2.75	12.56 $\pm$ 3.9
Perez et al 2021	GDS-15	6.44 $\pm$ 3.56	6.05 $\pm$ 3.37

C. BPSD

Study	Instrument	Control (mean $\pm$ SD)	Digital RT (mean $\pm$ SD)
Moon & Park 2020	NPI	17.95 $\pm$ 14.76	16.24 $\pm$ 10.1
Elfrink et al 2021	NPI	9.8 (SE = 2.7)	8.7 (SE = 2.4)

D. Communication and Engagement

Study	Instrument	Control (mean $\pm$ SD)	Digital RT (mean $\pm$ SD)
Moon & Park 2020	EPWDS	47.67 $\pm$ 2.35	45.05 $\pm$ 3.59
Manav et al 2019	ARS	49.19 $\pm$ 4.39	51.75 $\pm$ 4.96
Tominari et al 2021	MOSES Withdrawal	13.12 $\pm$ 6.01	13.54 $\pm$ 6.08
Elfrink et al 2021	NPI Apathy	3.5 (SE = 1.4)	5.1 (SE = 1.5)