

Supplementary Table 2. Item fit statistics of the HRS, MHAS, and KLoSA items.

Survey	Items	Measures	Model	Infit		Outfit	
		Logit	S. E.	MnSq	ZSTD	MnSq	ZSTD
Common Items	C_Dressing	-2.71 ^A	0.23	1.32	2.10	1.64	1.40
Common Items	C_Bathing	-2.32 ^A	0.21	0.87	-1.00	0.64	-0.90
Common Items	C_Eating	-3.91 ^A	0.31	0.85	-0.60	0.31	-1.80
Common Items	C_GetOutBed	-3.06 ^A	0.25	0.98	-0.10	0.56	-1.10
Common Items	C_Toileting	-3.33 ^A	0.27	1.21	1.20	0.85	-0.20
Common Items	C_MealPrep	-0.03 ^A	0.15	0.88	-1.60	0.66	-1.20
Common Items	C_Shopping	-1.48 ^A	0.18	0.70	-3.00	0.46	-1.70
Common Items	C_MoneyManage	-1.53 ^A	0.18	1.09	0.80	0.98	0.10
Common Items	C_TakeMeds	-3.33 ^A	0.27	0.94	-0.30	0.42	-1.50
HRS	H_Walking	-1.73	0.41	0.75	-0.90	0.26	-1.10
HRS	H_WalkBlocks	1.86	0.25	0.84	-1.30	0.65	-1.00
HRS	H_Jog1Mile	7.02	0.46	1.17	0.70	0.89	0.20
HRS	H_Walk1Block	-0.08	0.30	0.78	-1.40	0.38	-1.10
HRS	H_Sit2HR	-0.11	0.29	1.54*	3.00*	1.27	0.60
HRS	H_GetUpChair	2.24	0.24	1.01	0.10	0.86	-0.30
HRS	H_ClimbStairs	4.56	0.27	1.27	1.80	1.15	0.40
HRS	H_Climb1FLStairs	1.05	0.26	0.73	-2.20	0.52	-1.10
HRS	H_Stooping	3.61	0.25	0.72	-2.30	0.47	-1.50
HRS	H_LiftWeight	1.52	0.25	0.98	-0.10	0.81	-0.40
HRS	H_PickupDime	-0.90	0.34	1.60*	2.60*	4.92*	3.10*
HRS	H_ReachArm	0.22	0.28	1.61*	3.50*	2.12	1.60
HRS	H_PushObject	1.52	0.26	0.99	0.00	0.86	-0.20
MHAS	M_Walking	-1.53	0.36	0.92	-0.30	0.78	0.00
MHAS	M_WalkBlocks	2.32	0.25	0.96	-0.30	0.71	-0.70
MHAS	M_Jog1Mile	5.00	0.32	1.07	0.50	1.20	0.50
MHAS	M_Walk1Block	0.62	0.30	0.94	-0.30	0.62	-0.90
MHAS	M_Sit2HR	-0.09	0.29	1.37	2.10	1.44	0.90
MHAS	M_GetUpChair	1.78	0.25	1.13	1.00	1.45	1.20
MHAS	M_ClimbStairs	3.08	0.26	0.76	-1.90	0.57	-0.90
MHAS	M_Climb1FLStairs	2.01	0.25	0.80	-1.60	0.69	-0.80
MHAS	M_Stooping	3.32	0.25	0.98	-0.10	0.96	0.10
MHAS	M_LiftWeight	1.66	0.25	1.20	1.50	1.34	1.00
MHAS	M_PickupDime	-2.12	0.40	1.23	0.90	1.10	0.40
MHAS	M_ReachArm	-0.09	0.29	1.56*	3.00*	4.71*	3.90*
MHAS	M_PushObject	1.35	0.25	0.83	-1.40	0.67	-1.00
KLoSA	K_WashFace	-4.07	0.42	0.57	-1.60	0.15	-1.30
KLoSA	K_BowelManage	-5.52	0.58	0.61	-1.10	0.12	-1.10
KLoSA	K_Grooming	-4.07	0.42	0.61	-1.40	0.18	-1.20
KLoSA	K_Chore	-0.78	0.23	1.04	0.40	0.88	-0.30
KLoSA	K_Laundering	1.15	0.23	0.91	-0.90	0.83	-0.40
KLoSA	K_GoOut	-0.43	0.22	0.68	-3.40	0.57	-1.40
KLoSA	K_BusUse	-0.09	0.22	0.80	-2.30	0.72	-0.80
KLoSA	K_PhoneUse	-2.59	0.30	1.06	0.40	1.57	1.30

Note. ^A, Anchored (Common items); *, High misfit items.

HRS, Health and Retirement Study; MHAS, Mexican Health and Aging Study; KLoSA, Korean Longitudinal Study of Ageing.

MnSq, mean square residual; ZSTD, standardized Z.

The acceptable ranges of outfit MnSq for the survey are from 0.60 to 1.40, and the acceptable ranges of ZSTD are from -2.0 to 2.0 . Misfit item for MnSq and ZSTD range.