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# Corrigendum: Examining the intersection of cognitive and physical function measures: Results from the brain networks and mobility (B-NET) study

Atalie C. Thompson<sup>1,2\*</sup>, Michael E. Miller<sup>2,3</sup>, Elizabeth P. Handing<sup>4</sup>, Haiying Chen<sup>5</sup>, Christina E. Hugenschmidt<sup>2</sup>, Paul J. Laurienti<sup>6</sup> and Stephen B. Kritchevsky<sup>2</sup>

<sup>1</sup>Department of Surgical Ophthalmology, Wake Forest School of Medicine, Winston-Salem, NC, United States, <sup>2</sup>Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer's Prevention, Wake Forest School of Medicine, Winston-Salem, NC, United States, <sup>3</sup>Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, United States, <sup>4</sup>Department of Human Development and Family Studies, Colorado State University, Fort Collins, CO, United States, <sup>5</sup>Department of Biostatistics and Data Sciences, Wake Forest School of Medicine, Winston-Salem, NC, United States, <sup>6</sup>Department of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, United States

### KEYWORDS

cognitive function, mobility, aging, canonical correlation analysis, physical function

### A corrigendum on

Examining the intersection of cognitive and physical function measures: Results from the brain networks and mobility (B-NET) study

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In the published article, there was an error in Table 1 as published. Two participants were miscategorized as American Indian or Alaskan Native and should have been categorized as Caucasian or White race with Hispanic ethnicity. In addition, the standard deviation for age was incorrectly written as 4.74 and should have been 4.72. The corrected Table 1 appears below and includes updated race/ethnicity variable labels.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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 $\ensuremath{\mathsf{TABLE\,1}}$  Descriptive statistics from participants at baseline in the BNET study.

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Women         108 (56.2)           Men         84 (43.8)           Race/Ethnicity	Age	76.43 (4.72); 70 to 90
Men         84 (43.8)           Race/Ethnicity         84 (43.8)           Caucasian or White/Non-Hispanic         171 (89.1)           African American or Black/Non-Hispanic         18 (9.4)           Caucasian or White/Hispanic         2 (1.0)           Asian/Non-Hispanic         10.5)           BMI         28.39 (5.63); 15.7 to 59.8           Years of education         15.68 (2.45); 12 to 25           MoCA adjusted score         25.64 (2.20); 21 to 30           Semantic fluency: Animals (no. in 60 s)         18.78 (4.82); 7 to 34           Semantic fluency: Evords (no. in 60 s)         13.26 (3.87); 0 to 26           Verbal fluency: F words (no. in 60 s)         13.23 (4.02); 4 to 28           CRAFT immediate recall (no.)         21.03 (5.99); 7 to 35           CRAFT delayed recall (no.)         8.37 (3.20); 0 to 15           AVLT short delay recall, Trial 6 (no.)         8.37 (3.20); 0 to 15           AVLT delayed recall (no.)         7.94 (3.46); 0 to 15           TMT A (sec)         36.75 (11.15); 18 to 89           Fanker (log of ratio of medians) (N = 189)         28.80 (9.78); 8 to 52           Projecial function measures         30.37 (0.34); 0.07 to 2.40           Maximum grip strength (kg) (N = 189)         28.80 (9.78); 8 to 52           Force plate postural sway 95% Area (in. <sup>2</sup> ) - Firm (	Sex	
Race/Ethnicity         Instrument           Caucasian or White/Non-Hispanic         171 (89.1)           African American or Black/Non-Hispanic         18 (9.4)           Caucasian or White/Hispanic         2 (1.0)           Asian/Non-Hispanic         1 (0.5)           BMI         28.39 (5.63); 15.7 to 59.8           Years of education         15.68 (2.45); 12 to 25           Cognitive measures         1000           MoCA adjusted score         25.64 (2.20); 21 to 30           Semantic fluency: Animals (no. in 60 s)         18.78 (4.82); 7 to 34           Semantic fluency: Vegetables (no. in 60 s)         13.26 (3.87); 0 to 26           Verbal fluency: F words (no. in 60 s)         13.23 (4.02); 4 to 28           CRAFT immediate recall (no.)         21.03 (5.99); 7 to 35           CRAFT delayed recall (no.)         8.37 (3.20); 0 to 15           AVLT short delay recall, Trial 6 (no.)         8.37 (3.20); 0 to 15           AVLT delayed recall (no.)         7.94 (3.46); 0 to 15           TMT A (sec)         36.75 (11.15); 18 to 89           TMT A (sec)         0.11 (0.08); -0.03 to 0.39           Flanker (log of ratio of medians) (N = 189)         2.8.0 (9.78); 8 to 52           Force plate postural sway 95% Area (in. <sup>2</sup> ) - Firm (N = 188)         0.37 (0.34); 0.07 to 2.40           Force plate postural s	Women	108 (56.2)
Caucasian or White/Non-Hispanic         171 (89.1)           African American or Black/Non-Hispanic         18 (9.4)           Caucasian or White/Hispanic         2 (1.0)           Asian/Non-Hispanic         1 (0.5)           BMI         28.39 (5.63); 15.7 to 59.8           Years of education         15.68 (2.45); 12 to 25           Cognitive measures	Men	84 (43.8)
African American or Black/Non-Hispanic       18 (9.4)         Caucasian or White/Hispanic       2 (1.0)         Asian/Non-Hispanic       1 (0.5)         BMI       28.39 (5.63); 15.7 to 59.8         Years of education       15.68 (2.45); 12 to 25 <b>Cognitive measures</b>	Race/Ethnicity	
Caucasian or White/Hispanic         2 (1.0)           Asian/Non-Hispanic         1 (0.5)           BMI         28.39 (5.63); 15.7 to 59.8           Years of education         15.68 (2.45); 12 to 25 <b>Cognitive measures</b> 2           MoCA adjusted score         25.64 (2.20); 21 to 30           Semantic fluency: Animals (no. in 60 s)         18.78 (4.82); 7 to 34           Semantic fluency: Vegetables (no. in 60 s)         13.26 (3.87); 0 to 26           Verbal fluency: F words (no. in 60 s)         13.23 (4.02); 4 to 28           CRAFT immediate recall (no.)         21.03 (5.99); 7 to 35           CRAFT delayed recall (no.)         18.67 (5.74); 7 to 34           DSC (no. in 90 s)         55.18 (12.20); 21 to 87           AVLT short delay recall, Trial 6 (no.)         8.37 (3.20); 0 to 15           AVLT delayed recall (no.)         7.94 (3.46); 0 to 15           TMT A (sec)         36.75 (11.15); 18 to 89           TMT F (sec) (N = 191)         98.70 (43.96); 36 to 300           Flanker (log of ratio of medians) (N = 189)         0.11 (0.08); -0.03 to 0.39           Physical function measures         0.37 (0.34); 0.07 to 2.40           Maximum grip strength (kg) (N = 189)         28.80 (9.78); 8 to 52           Force plate postural sway 95% Area (in. <sup>2</sup> ) - Firm (N = 188)         1.18 (0.82); 0.34 to 8.68	Caucasian or White/Non-Hispanic	171 (89.1)
Asian/Non-Hispanic         1 (0.5)           BMI         28.39 (5.63); 15.7 to 59.8           Years of education         15.68 (2.45); 12 to 25           Cognitive measures         2           MoCA adjusted score         25.64 (2.20); 21 to 30           Semantic fluency: Animals (no. in 60 s)         18.78 (4.82); 7 to 34           Semantic fluency: Vegetables (no. in 60 s)         13.26 (3.87); 0 to 26           Verbal fluency: F words (no. in 60 s)         13.23 (4.02); 4 to 28           CRAFT immediate recall (no.)         21.03 (5.99); 7 to 35           CRAFT delayed recall (no.)         18.67 (5.74); 7 to 34           DSC (no. in 90 s)         55.18 (12.20); 21 to 87           AVLT short delay recall, Trial 6 (no.)         8.37 (3.20); 0 to 15           TMT A (sec)         36.75 (11.15); 18 to 89           TMT A (sec)         36.75 (11.15); 18 to 89           Force plate postural sway 95% Area (in. <sup>2</sup> ) -         0.37 (0.34); 0.07 to 2.40           Force plate postural sway 95% Area (in. <sup>2</sup> ) -         1.18 (0.82); 0.34 to 8.68           Force plate postural sway 95% Area (in. <sup>2</sup> ) -         1.18 (0.82); 0.34 to 8.68           Form (N = 188)         2.00 (0.52); 0.48 to 3.26           eSPPB score (N = 190)         2.00 (0.52); 0.48 to 3.26           400 m walk pace (m/s)         1.27 (0.43); 0.31 to 4.17 <td>African American or Black/Non-Hispanic</td> <td>18 (9.4)</td>	African American or Black/Non-Hispanic	18 (9.4)
BMI       28.39 (5.63); 15.7 to 59.8         Years of education       15.68 (2.45); 12 to 25         Cognitive measures       25.64 (2.20); 21 to 30         MoCA adjusted score       25.64 (2.20); 21 to 30         Semantic fluency: Animals (no. in 60 s)       18.78 (4.82); 7 to 34         Semantic fluency: Vegetables (no. in 60 s)       13.26 (3.87); 0 to 26         Verbal fluency: F words (no. in 60 s)       12.33 (3.94); 3 to 26         Verbal fluency: L words (no. in 60 s)       13.23 (4.02); 4 to 28         CRAFT immediate recall (no.)       21.03 (5.99); 7 to 35         CRAFT delayed recall (no.)       18.67 (5.74); 7 to 34         DSC (no. in 90 s)       55.18 (12.20); 21 to 87         AVLT short delay recall, Trial 6 (no.)       8.37 (3.20); 0 to 15         TMT A (sec)       36.75 (11.15); 18 to 89         TMT A (sec)       36.75 (11.15); 18 to 89         Flanker (log of ratio of medians) (N = 189)       0.11 (0.08); -0.03 to 0.39         Physical function measures       9         Maximum grip strength (kg) (N = 189)       28.80 (9.78); 8 to 52         Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foram (N = 188)       1.18 (0.82); 0.34 to 8.68         eSPPB score (N = 190)       2.00 (0.52); 0.48 to 3.26         400 m walk pace (m/s)       1.27 (0.43); 0.31 to 4.17	Caucasian or White/Hispanic	2 (1.0)
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Cognitive measures         Interview           MoCA adjusted score $25.64$ ( $2.20$ ); $21$ to $30$ Semantic fluency: Animals (no. in $60$ s) $18.78$ ( $4.82$ ); 7 to $34$ Semantic fluency: Vegetables (no. in $60$ s) $13.26$ ( $3.87$ ); $0$ to $26$ Verbal fluency: F words (no. in $60$ s) $12.33$ ( $3.94$ ); $3$ to $26$ Verbal fluency: L words (no. in $60$ s) $13.23$ ( $4.02$ ); $4$ to $28$ CRAFT immediate recall (no.) $21.03$ ( $5.99$ ); 7 to $35$ CRAFT delayed recall (no.) $18.67$ ( $5.74$ ); 7 to $34$ DSC (no. in $90$ s) $55.18$ ( $12.20$ ); $21$ to $87$ AVLT short delay recall, Trial $6$ (no.) $8.37$ ( $3.20$ ); $0$ to $15$ TMT A (sec) $7.94$ ( $3.46$ ); $0$ to $15$ TMT A (sec) $36.75$ ( $11.15$ ); $18$ to $89$ TMT B (sec) ( $N = 191$ ) $98.70$ ( $43.96$ ); $36$ to $300$ Flanker (log of ratio of medians) ( $N = 189$ ) $0.11$ ( $0.08$ ); $-0.03$ to $0.39$ <b>Physical function measures</b> $Maximum$ grip strength (kg) ( $N = 189$ ) $28.80$ ( $9.78$ ); $8$ to $52$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - $Firm$ ( $N = 188$ ) $0.37$ ( $0.34$ ); $0.07$ to $2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - $Foam$ ( $N = 188$ ) $2.00$ ( $0.52$ ); $0.48$ to $3.26$ <	BMI	28.39 (5.63); 15.7 to 59.8
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CRAFT delayed recall (no.) $18.67 (5.74); 7 to 34$ DSC (no. in 90 s) $55.18 (12.20); 21 to 87$ AVLT short delay recall, Trial 6 (no.) $8.37 (3.20); 0 to 15$ AVLT delayed recall (no.) $7.94 (3.46); 0 to 15$ TMT A (sec) $36.75 (11.15); 18 to 89$ TMT B (sec) (N = 191) $98.70 (43.96); 36 to 300$ Flanker (log of ratio of medians) (N = 189) $0.11 (0.08); -0.03 to 0.39$ Physical function measures $0.37 (0.34); 0.07 to 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Fram (N = 188) $0.37 (0.34); 0.07 to 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam (N = 188) $1.18 (0.82); 0.34 to 8.68$ eSPPB score (N = 190) $2.00 (0.52); 0.48 to 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 to 4.17$	Verbal fluency: L words (no. in 60 s)	13.23 (4.02); 4 to 28
DSC (no. in 90 s)55.18 (12.20); 21 to 87AVLT short delay recall, Trial 6 (no.) $8.37$ (3.20); 0 to 15AVLT delayed recall (no.) $7.94$ (3.46); 0 to 15TMT A (sec) $36.75$ (11.15); 18 to 89TMT B (sec) (N = 191) $98.70$ (43.96); 36 to 300Flanker (log of ratio of medians) (N = 189) $0.11$ (0.08); $-0.03$ to 0.39Physical function measures $0.37$ (0.34); 0.07 to 2.40Force plate postural sway 95% Area (in. <sup>2</sup> ) - Fram (N = 188) $0.37$ (0.34); 0.07 to 2.40Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam (N = 188) $1.18$ (0.82); 0.34 to 8.68eSPPB score (N = 190) $2.00$ (0.52); 0.48 to 3.26400 m walk pace (m/s) $1.27$ (0.43); 0.31 to 4.17	CRAFT immediate recall (no.)	21.03 (5.99); 7 to 35
AVLT short delay recall, Trial 6 (no.) $8.37 (3.20); 0 \text{ to } 15$ AVLT delayed recall (no.) $7.94 (3.46); 0 \text{ to } 15$ TMT A (sec) $36.75 (11.15); 18 \text{ to } 89$ TMT B (sec) $(N = 191)$ $98.70 (43.96); 36 \text{ to } 300$ Flanker (log of ratio of medians) $(N = 189)$ $0.11 (0.08); -0.03 \text{ to } 0.39$ Physical function measures $0.11 (0.08); -0.03 \text{ to } 0.39$ Maximum grip strength (kg) $(N = 189)$ $28.80 (9.78); 8 \text{ to } 52$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Frim $(N = 188)$ $0.37 (0.34); 0.07 \text{ to } 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam $(N = 188)$ $1.18 (0.82); 0.34 \text{ to } 8.68$ eSPPB score $(N = 190)$ $2.00 (0.52); 0.48 \text{ to } 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 \text{ to } 4.17$	CRAFT delayed recall (no.)	18.67 (5.74); 7 to 34
AVLT delayed recall (no.) $7.94 (3.46); 0 \text{ to } 15$ TMT A (sec) $36.75 (11.15); 18 \text{ to } 89$ TMT B (sec) (N = 191) $98.70 (43.96); 36 \text{ to } 300$ Flanker (log of ratio of medians) (N = 189) $0.11 (0.08); -0.03 \text{ to } 0.39$ Physical function measuresMaximum grip strength (kg) (N = 189) $28.80 (9.78); 8 \text{ to } 52$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Frim (N = 188) $0.37 (0.34); 0.07 \text{ to } 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam (N = 188) $1.18 (0.82); 0.34 \text{ to } 8.68$ eSPPB score (N = 190) $2.00 (0.52); 0.48 \text{ to } 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 \text{ to } 4.17$	DSC (no. in 90 s)	55.18 (12.20); 21 to 87
TMT A (sec) $36.75 (11.15); 18 to 89$ TMT A (sec) $36.75 (11.15); 18 to 89$ TMT B (sec) (N = 191) $98.70 (43.96); 36 to 300$ Flanker (log of ratio of medians) (N = 189) $0.11 (0.08); -0.03 to 0.39$ <b>Physical function measures</b> $N$ Maximum grip strength (kg) (N = 189) $28.80 (9.78); 8 to 52$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Firm (N = 188) $0.37 (0.34); 0.07 to 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam (N = 188) $1.18 (0.82); 0.34 to 8.68$ eSPPB score (N = 190) $2.00 (0.52); 0.48 to 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 to 4.17$	AVLT short delay recall, Trial 6 (no.)	8.37 (3.20); 0 to 15
TMT B (sec) $(N = 191)$ 98.70 (43.96); 36 to 300         Flanker (log of ratio of medians) $(N = 189)$ 0.11 (0.08); -0.03 to 0.39 <b>Physical function measures</b> Maximum grip strength (kg) $(N = 189)$ 28.80 (9.78); 8 to 52         Force plate postural sway 95% Area (in. <sup>2</sup> ) - Firm $(N = 188)$ 0.37 (0.34); 0.07 to 2.40         Force plate postural sway 95% Area (in. <sup>2</sup> ) - Foam $(N = 188)$ 1.18 (0.82); 0.34 to 8.68         eSPPB score $(N = 190)$ 2.00 (0.52); 0.48 to 3.26         400 m walk pace (m/s)       1.27 (0.43); 0.31 to 4.17	AVLT delayed recall (no.)	7.94 (3.46); 0 to 15
Flanker (log of ratio of medians) (N = 189) $0.11 (0.08); -0.03 \text{ to } 0.39$ Physical function measures $Maximum grip strength (kg) (N = 189)$ Maximum grip strength (kg) (N = 189) $28.80 (9.78); 8 \text{ to } 52$ Force plate postural sway 95% Area (in. <sup>2</sup> ) – Firm (N = 188) $0.37 (0.34); 0.07 \text{ to } 2.40$ Force plate postural sway 95% Area (in. <sup>2</sup> ) – Foam (N = 188) $1.18 (0.82); 0.34 \text{ to } 8.68$ eSPPB score (N = 190) $2.00 (0.52); 0.48 \text{ to } 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 \text{ to } 4.17$	TMT A (sec)	36.75 (11.15); 18 to 89
Physical function measures           Maximum grip strength (kg) $(N = 189)$ 28.80 (9.78); 8 to 52           Force plate postural sway 95% Area (in. <sup>2</sup> ) – Firm $(N = 188)$ 0.37 (0.34); 0.07 to 2.40           Force plate postural sway 95% Area (in. <sup>2</sup> ) – Foam $(N = 188)$ 1.18 (0.82); 0.34 to 8.68           eSPPB score $(N = 190)$ 2.00 (0.52); 0.48 to 3.26           400 m walk pace (m/s)         1.27 (0.43); 0.31 to 4.17	TMT B (sec) ( <i>N</i> = 191)	98.70 (43.96); 36 to 300
Maximum grip strength (kg) $(N = 189)$ 28.80 (9.78); 8 to 52         Force plate postural sway 95% Area (in. <sup>2</sup> ) –       0.37 (0.34); 0.07 to 2.40         Firm $(N = 188)$ 1.18 (0.82); 0.34 to 8.68         Force plate postural sway 95% Area (in. <sup>2</sup> ) –       1.18 (0.82); 0.34 to 8.68         eSPPB score $(N = 190)$ 2.00 (0.52); 0.48 to 3.26         400 m walk pace (m/s)       1.27 (0.43); 0.31 to 4.17	Flanker (log of ratio of medians) ( $N = 189$ )	0.11 (0.08); -0.03 to 0.39
Force plate postural sway 95% Area (in.2) - Firm $(N = 188)$ $0.37 (0.34); 0.07 \text{ to } 2.40$ Force plate postural sway 95% Area (in.2) - Foam $(N = 188)$ $1.18 (0.82); 0.34 \text{ to } 8.68$ eSPPB score $(N = 190)$ $2.00 (0.52); 0.48 \text{ to } 3.26$ 400 m walk pace (m/s) $1.27 (0.43); 0.31 \text{ to } 4.17$	Physical function measures	
Firm $(N = 188)$ 1.18 (0.82); 0.34 to 8.68         Force plate postural sway 95% Area (in. <sup>2</sup> ) –       1.18 (0.82); 0.34 to 8.68         Foam $(N = 188)$ 2.00 (0.52); 0.48 to 3.26         400 m walk pace (m/s)       1.27 (0.43); 0.31 to 4.17	Maximum grip strength (kg) ( $N = 189$ )	28.80 (9.78); 8 to 52
Foam (N = 188)           eSPPB score (N = 190)         2.00 (0.52); 0.48 to 3.26           400 m walk pace (m/s)         1.27 (0.43); 0.31 to 4.17		0.37 (0.34); 0.07 to 2.40
400 m walk pace (m/s) 1.27 (0.43); 0.31 to 4.17		1.18 (0.82); 0.34 to 8.68
	eSPPB score ( $N = 190$ )	2.00 (0.52); 0.48 to 3.26
Dual Task pace (m/s) (N = 186) 1.07 (0.21); 0.55 to 1.67	400 m walk pace (m/s)	1.27 (0.43); 0.31 to 4.17
	Dual Task pace (m/s) ( $N = 186$ )	1.07 (0.21); 0.55 to 1.67

MoCA, Montreal cognitive assessment; DSC, Digit symbol coding; AVLT, Auditory verbal learning test; TMT, Trail making test.