

Appendix 4. Tables underlying Figures 2 and 3.

Table 1. The proportion of a young Kenyan HIV-uninfected population who meet criteria for cognitive impairment using various definitions of impairment and various criteria for an abnormal domain (n=84).

	Z-scores ≤ -1 in ≥ 2 domains	Z-scores ≤ -1.5 in ≥ 2 domains	Z-scores ≤ -2 in ≥ 2 domains
<i>Criteria for an abnormal domain:</i>	% [95%CI]	% [95%CI]	% [95%CI]
One test in domain abnormal	48% [37%, 59%]	20% [11%, 29%]	6% [1%, 11%]
Average score in domain abnormal	20% [11%, 29%]	6% [1%, 11%]	0%
At least two tests in domain abnormal	19% [10%, 28%]	4% [-0.5%, 8%]	0%
All tests in domain abnormal	8% [2%, 14%]	1% [-1%, 4%]	0%

Table 2. The percentage of a simulated normal population who meet criteria for cognitive impairment using various definitions of impairment and various criteria for an abnormal domain.

<i>Criteria for an abnormal domain:</i>	Z-scores ≤ -1 in ≥ 2 domains				Z-scores ≤ -1.5 in ≥ 2 domains				Z-scores ≤ -2 in ≥ 2 domains			
	Emp	Low	Mod	High	Emp	Low	Mod	High	Emp	Low	Mod	High
One test in domain abnormal	56	74	45	27	24	29	22	13	7	5	8	5
Average score in domain abnormal	30	31	25	20	11	7	11	9	3	1	4	3
At least two tests in domain abnormal	11	4	15	17	2	0	5	7	0	0	1	2
All tests in domain abnormal	8	2	11	15	1	0	3	6	0	0	1	2

Table 3. The percentage of a simulated normal population who meet criteria for cognitive impairment using neuropsychological test batteries of various sizes.

Number of Domains	Empiric Correlation (Within 0.31, Between 0.17)				Moderate Correlation (Within 0.5, Between 0.5)			
	2 tests	3 tests	4 tests	5 tests	2 tests	3 tests	4 tests	5 tests
<i>Z</i> ≤ -1								
2	4	5	5	5	8	9	10	10
3	10	10	11	11	14	14	14	15
4	15	16	16	16	17	18	18	18
5	21	21	21	21	21	20	20	20
6	26	25	25	25	23	23	22	22
7	30	30	29	29	26	25	24	23
8	34	34	33	32	28	26	25	24
9	38	37	36	36	30	27	26	25
10	41	40	39	38	31	29	27	26
<i>Z</i> ≤ -1.5								
2	1	1	1	1	3	3	3	4
3	3	3	3	3	5	5	6	6
4	4	5	5	5	7	7	7	7
5	6	7	7	7	9	8	8	8
6	8	9	9	9	10	10	9	9
7	10	11	11	11	11	11	10	10
8	12	13	13	13	12	12	11	11
9	14	14	15	15	13	12	12	12
10	16	16	16	16	14	13	13	12
<i>Z</i> ≤ -2								
2	0	0	0	0	1	1	1	1
3	0	1	1	1	1	2	2	2
4	1	1	1	1	2	2	2	2
5	1	2	2	2	3	3	3	3
6	2	2	2	2	3	3	3	3
7	2	3	3	3	4	4	3	3
8	3	3	3	3	4	4	4	4
9	3	4	4	4	5	4	4	4
10	4	4	4	5	5	5	4	4