

Supplementary Material

Supplementary Table. Incidence of cognitive impairment according to a more extreme threshold of ≥ 2 SD below the baseline mean, “Health and Ageing in Africa: A Longitudinal Study of an INDEPTH Community in South Africa” (HAALSI), Agincourt, South Africa, 2014-19

Baseline characteristic	N cases, unweighted	Unweighted person-years	Weighted person-years	Incidence rate (IR), per 1000-person years (95% CI)	Incidence rate ratio (IRR) (95% CI)
Overall	214	13,579.9	16,170.1	17.4 (15.2, 20.0)	-
Age					
40-44	10	1,352.3	1,537.8	7.5 (4.1, 15.1)	1.00 (ref)
45-49	12	1,325.5	1,491.5	10.6 (6.0, 20.4)	1.41 (0.61, 3.24)
50-54	11	2,123.7	2,449.9	5.1 (2.9, 9.9)	0.68 (0.29, 1.60)
55-59	20	1,866.3	2,179.9	11.7 (7.9, 17.4)	1.42 (0.67, 3.01)
60-64	23	1,998.7	2,325.1	15.5 (10.7, 23.4)	1.57 (0.75, 3.26)
65-69	26	1,720.0	2,030.6	18.2 (12.3, 28.3)	2.05 (1.00, 4.21)
70-74	23	1,304.6	1,596.8	20.5 (14.6, 29.8)	2.36 (1.14, 4.90)
75-79	26	928.2	1,195.3	28.8 (19.8, 43.4)	3.64 (1.78, 7.43)
80+	63	960.6	1,363.2	70.0 (54.8, 90.6)	8.24 (4.29, 15.8)
Per 5-year age increase	-	-	-	-	1.36 (1.27, 1.45)
<i>P</i> for linear trend	-	-	-	-	<0.0001
Sex/gender					
Male	106	6,087.5	7,531.9	19.4 (16.0, 23.7)	1.00 (ref)
Female	108	7,492.4	8,638.1	15.6 (12.9, 19.0)	0.83 (0.64, 1.08)
Country of birth					
South Africa	117	9,687.8	11,618.3	13.5 (11.3, 16.3)	1.00 (ref)
Mozambique or other	97	3,880.8	4,539.0	27.3 (22.4, 33.7)	1.71 (1.31, 2.22)
Educational attainment					
0 years	150	5,486.2	6,610.1	29.7 (25.3, 35.1)	1.00 (ref)
1-7 years	42	5,010.8	5,926.4	9.6 (7.1, 13.3)	0.31 (0.11, 0.87)
8-11 years	16	1,731.3	2,035.9	9.8 (6.1, 16.8)	0.77 (0.44, 1.33)
12+ years	4	1,324.9	1,564.4	3.1 (1.1, 11.1)	0.51 (0.36, 0.72)
Per year of education	-	-	-	-	0.93 (0.88, 0.98)
Literacy					
Can read and write	57	7,671.1	9,055.7	8.4 (6.5, 11.0)	1.00 (ref)
Cannot read and/or write	157	5,901.0	7,104.9	28.9 (24.7, 34.0)	2.11 (1.52, 2.93)

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Employment status					
Not working	185	9,687.4	11,632.8	21.0 (18.2, 24.5)	1.00 (ref)
Homemaker	15	1,475.7	1,721.5	11.3 (6.9, 19.8)	0.56 (0.34, 0.94)
Employed	13	2,378.4	2,769.8	5.5 (3.3, 10.2)	0.57 (0.32, 1.01)
Marital status					
Married	78	7,362.5	8,677.7	11.5 (9.2, 14.5)	1.00 (ref)
Not married	135	6,211.9	7,484.6	23.9 (20.2, 28.5)	2.12 (1.55, 2.91)
Household asset quintile					
5 (richest)	20	2,900.0	3,420.9	7.5 (4.9, 12.1)	1.00 (ref)
4	35	2,830.6	3,342.1	13.6 (9.8, 19.3)	1.59 (0.93, 2.71)
3	40	2,684.6	3,207.3	16.6 (12.3, 23.1)	1.78 (1.05, 3.01)
2	51	2,621.8	3,169.6	22.1 (16.8, 29.7)	2.15 (1.29, 3.61)
1 (poorest)	68	2,542.9	3,030.0	28.5 (22.5, 36.7)	2.78 (1.67, 4.64)
Per quintile decrease	-	-	-	-	1.25 (1.13, 1.39)
Smoking history					
Never smoker	170	10,785.3	12,732.4	17.5 (15.1, 20.5)	1.00 (ref)
Current or former smoker	44	2,780.8	3,419.6	17.0 (12.7, 23.2)	1.03 (0.72, 1.49)
Alcohol consumption ≥ 5 days/week					
No	191	12,829.1	15,248.1	16.5 (14.3, 19.1)	1.00 (ref)
Yes	23	740.3	905.5	32.8 (22.0, 50.9)	1.71 (1.11, 2.63)
Hypertension					
No	77	5,689.3	6,728.6	14.8 (11.8, 18.7)	1.00 (ref)
Yes	135	7,676.5	9,174.8	19.5 (16.5, 23.2)	0.99 (0.76, 1.29)
History of stroke, angina, or heart attack					
No	199	12,900.3	15,344.8	16.9 (14.7, 19.5)	1.00 (ref)
Yes	15	672.9	876.1	26.5 (15.8, 47.7)	1.50 (0.90, 2.52)
History of diabetes					
No	173	11,215.2	13,310.9	16.8 (14.4, 19.6)	1.00 (ref)
Yes	26	1,415.7	1,698.7	20.9 (14.2, 32.1)	1.10 (0.74, 1.64)
HIV status (DBS)					
Negative	166	9,419.2	11,142.2	19.3 (16.6, 22.6)	1.00 (ref)
Positive	30	3,030.7	3,619.3	10.9 (7.6, 16.2)	0.85 (0.56, 1.28)

Note: Person-years for baseline characteristics may not add to the total person-years, due to a small number of missing observations.

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Note: IRs and IRRS are weighted to account for the probabilities of mortality and study attrition over the follow-up.

Note: Model for age is unadjusted; Model for sex/gender is age-adjusted; Model for country of birth is age- and sex/gender-adjusted; Models for all other variables are adjusted for age, sex/gender, and country of birth.