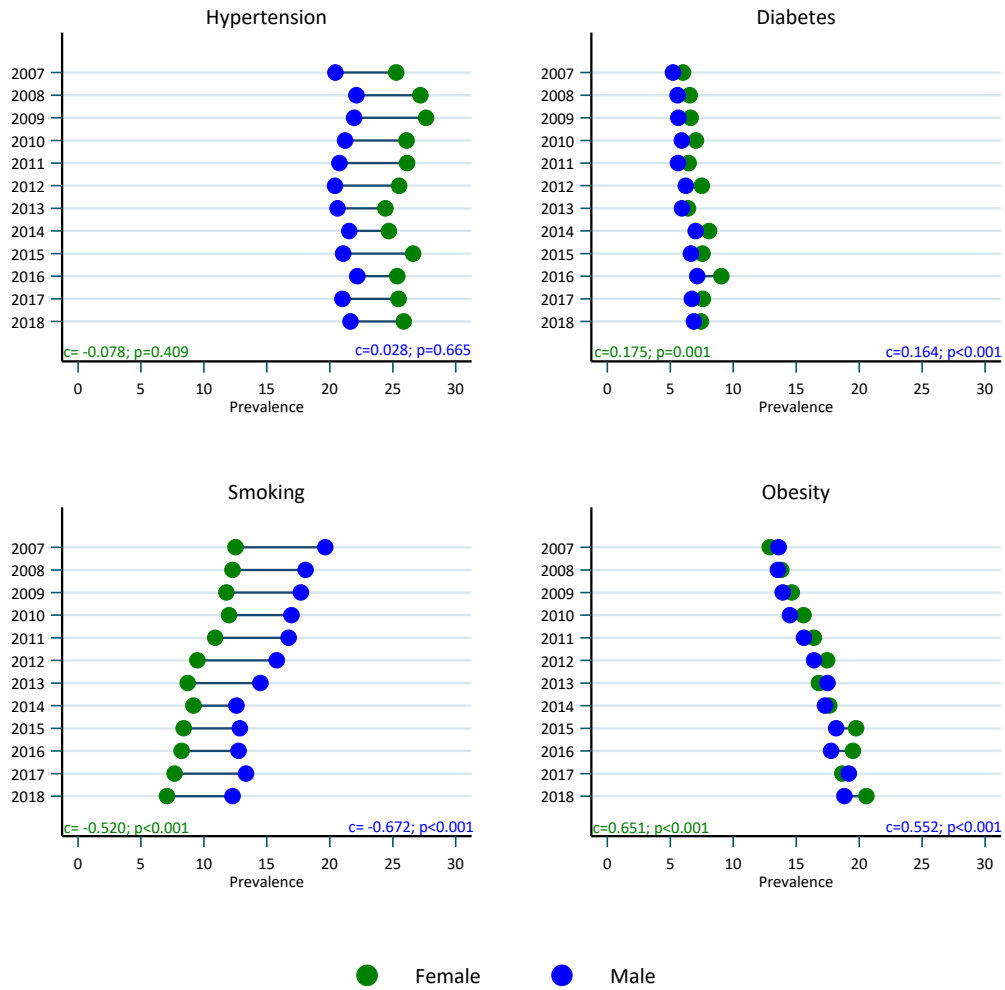
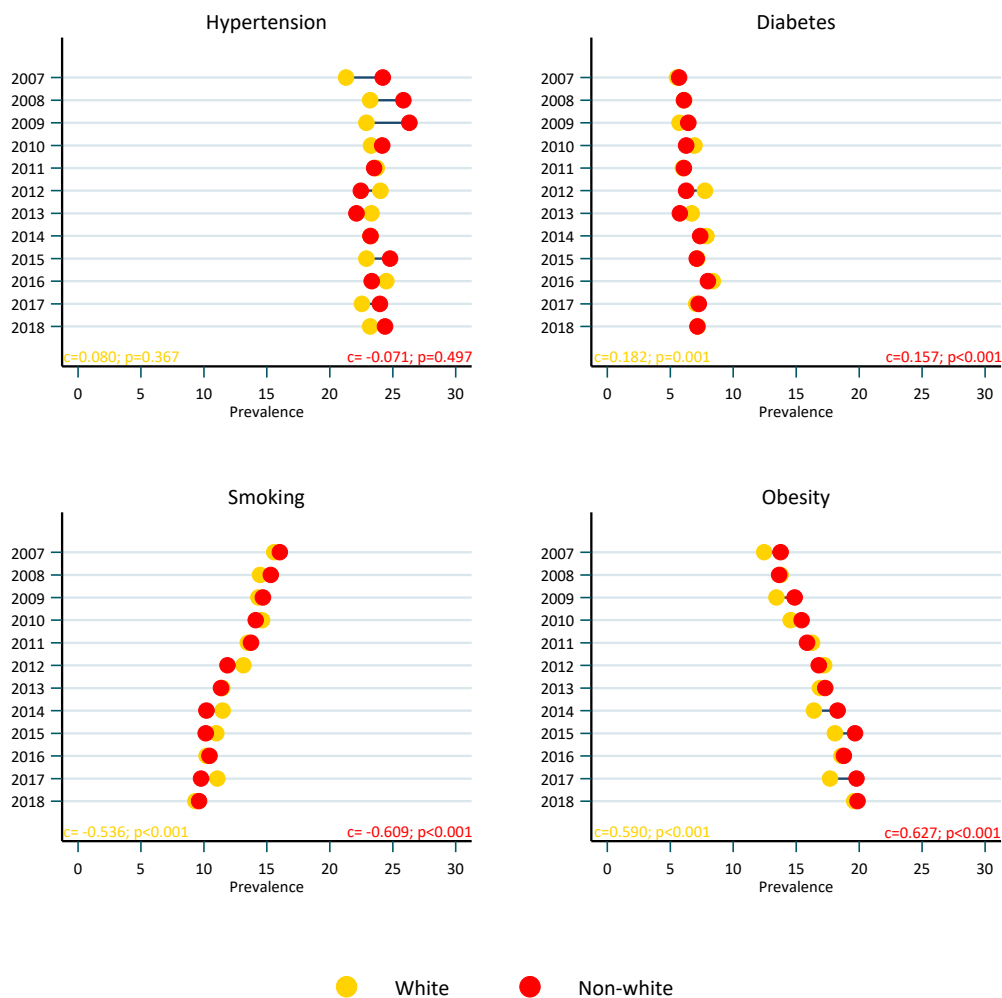


**Supplementary figure 1:** Age-standardized prevalence of hypertension, diabetes, smoking and obesity by sex, VIGITEL 2007-2018.



c: annual change (%); p= p-value

**Supplementary figure 2:** Age-standardized prevalence of hypertension, diabetes, smoking and obesity by skin colour, VIGITEL 2007-2018.



c: annual change (%); p= p-value

**Supplementary Table 1: VIGITEL sociodemographic characteristics and risk factor prevalence by sex, skin colour and survey year.**

Characteristics by sex and skin colour		Survey year and Standard Error											
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Mean age (years)													
	Female	40.6 ± 0.2	40.9 ± 0.2	41.2 ± 0.2	41.4 ± 0.2	41.3 ± 0.2	41.2 ± 0.2	41.4 ± 0.2	41.3 ± 0.2	42.3 ± 0.2	42.1 ± 0.2	42.7 ± 0.2	43.0 ± 0.2
	Male	38.9 ± 0.2	38.7 ± 0.2	39.1 ± 0.2	39.1 ± 0.2	39.3 ± 0.2	38.8 ± 0.2	38.8 ± 0.2	39.0 ± 0.3	39.4 ± 0.2	39.2 ± 0.2	40.0 ± 0.2	40.3 ± 0.2
	White	40.4 ± 0.2	40.5 ± 0.2	40.8 ± 0.2	41.2 ± 0.2	41.8 ± 0.2	42.1 ± 0.2	41.9 ± 0.2	42.1 ± 0.2	42.1 ± 0.2	42.3 ± 0.2	42.8 ± 0.2	42.8 ± 0.2
	Non-white	39.3 ± 0.2	39.6 ± 0.2	39.9 ± 0.2	39.8 ± 0.2	39.3 ± 0.2	38.6 ± 0.2	38.8 ± 0.2	38.8 ± 0.2	40.1 ± 0.2	39.4 ± 0.2	40.4 ± 0.2	40.9 ± 0.2
Education (years)													
	Female	9.4 ± 0.1	9.4 ± 0.1	9.7 ± 0.1	9.9 ± 0.1	9.9 ± 0.1	10.4 ± 0.1	10.5 ± 0.1	10.7 ± 0.1	10.6 ± 0.1	10.9 ± 0.1	10.8 ± 0.1	10.9 ± 0.1
	Male	9.3 ± 0.1	9.4 ± 0.1	9.6 ± 0.1	9.7 ± 0.1	9.8 ± 0.1	10.2 ± 0.1	10.3 ± 0.1	10.5 ± 0.1	10.3 ± 0.1	10.7 ± 0.1	10.5 ± 0.1	10.5 ± 0.1
	White	10.6 ± 0.1	10.6 ± 0.1	10.8 ± 0.1	11.0 ± 0.1	10.8 ± 0.1	11.1 ± 0.1	11.1 ± 0.1	11.3 ± 0.1	11.5 ± 0.1	11.4 ± 0.1	11.4 ± 0.1	11.7 ± 0.1
	Non-white	8.5 ± 0.0	8.7 ± 0.0	8.9 ± 0.1	9.0 ± 0.1	9.1 ± 0.1	9.7 ± 0.1	9.9 ± 0.1	10.1 ± 0.1	9.7 ± 0.1	10.3 ± 0.1	10.1 ± 0.1	10.0 ± 0.1
Hypertension <sup>+</sup>													
	Female	25.3 ± 0.5	27.2 ± 0.5	27.7 ± 0.5	26.1 ± 0.5	26.1 ± 0.5	25.5 ± 0.5	24.4 ± 0.5	24.7 ± 0.6	26.6 ± 0.5	25.4 ± 0.5	25.5 ± 0.5	25.9 ± 0.5
	Male	20.5 ± 0.6	22.1 ± 0.6	21.9 ± 0.6	21.2 ± 0.6	20.8 ± 0.5	20.4 ± 0.6	20.6 ± 0.6	21.6 ± 0.7	21.1 ± 0.6	22.2 ± 0.6	21 ± 0.6	21.6 ± 0.6
	White	21.3 ± 0.6	23.2 ± 0.6	22.9 ± 0.6	23.3 ± 0.6	23.7 ± 0.6	24 ± 0.6	23.3 ± 0.6	23.2 ± 0.6	22.9 ± 0.6	24.5 ± 0.6	22.6 ± 0.6	23.2 ± 0.6
	Non-white	24.2 ± 0.5	25.8 ± 0.5	26.3 ± 0.5	24.2 ± 0.5	23.5 ± 0.5	22.5 ± 0.5	22.1 ± 0.5	23.2 ± 0.6	24.8 ± 0.6	23.3 ± 0.5	24 ± 0.5	24.4 ± 0.5
Diabetes <sup>+</sup>													
	Female	6 ± 0.3	6.5 ± 0.3	6.6 ± 0.3	7 ± 0.3	6.4 ± 0.3	7.5 ± 0.3	6.4 ± 0.3	8.1 ± 0.4	7.6 ± 0.3	9.1 ± 0.4	7.6 ± 0.3	7.4 ± 0.3
	Male	5.2 ± 0.3	5.6 ± 0.3	5.6 ± 0.3	5.9 ± 0.3	5.6 ± 0.3	6.2 ± 0.4	5.9 ± 0.4	7 ± 0.4	6.6 ± 0.4	7.1 ± 0.4	6.7 ± 0.3	6.9 ± 0.3
	White	5.5 ± 0.3	6.1 ± 0.3	5.7 ± 0.4	6.9 ± 0.4	6 ± 0.3	7.7 ± 0.4	6.7 ± 0.3	7.9 ± 0.4	7.2 ± 0.4	8.4 ± 0.4	7.1 ± 0.3	7.2 ± 0.3
	Non-white	5.7 ± 0.3	6.1 ± 0.3	6.4 ± 0.3	6.3 ± 0.3	6.1 ± 0.3	6.3 ± 0.3	5.8 ± 0.3	7.4 ± 0.4	7.1 ± 0.3	8 ± 0.3	7.3 ± 0.3	7.2 ± 0.3
Smoking <sup>+</sup>													
	Female	12.5 ± 0.4	12.3 ± 0.4	11.8 ± 0.4	12 ± 0.4	10.9 ± 0.4	9.5 ± 0.4	8.7 ± 0.4	9.2 ± 0.5	8.4 ± 0.4	8.2 ± 0.4	7.7 ± 0.4	7.1 ± 0.3
	Male	19.6 ± 0.6	18.1 ± 0.6	17.7 ± 0.6	17 ± 0.6	16.7 ± 0.6	15.8 ± 0.7	14.5 ± 0.6	12.6 ± 0.6	12.9 ± 0.6	12.8 ± 0.6	13.3 ± 0.6	12.3 ± 0.6
	White	15.6 ± 0.5	14.5 ± 0.5	14.3 ± 0.5	14.6 ± 0.6	13.5 ± 0.5	13.1 ± 0.6	11.5 ± 0.5	11.5 ± 0.6	11 ± 0.5	10.2 ± 0.5	11.1 ± 0.6	9.3 ± 0.5
	Non-white	16 ± 0.5	15.3 ± 0.5	14.7 ± 0.5	14.1 ± 0.5	13.7 ± 0.4	11.9 ± 0.5	11.4 ± 0.5	10.2 ± 0.5	10.1 ± 0.5	10.4 ± 0.5	9.8 ± 0.4	9.6 ± 0.5
Obesity <sup>+</sup>													
	Female	12.9 ± 0.4	13.8 ± 0.4	14.6 ± 0.4	15.6 ± 0.4	16.4 ± 0.4	17.5 ± 0.5	16.8 ± 0.4	17.6 ± 0.5	19.8 ± 0.5	19.5 ± 0.5	18.7 ± 0.5	20.6 ± 0.5
	Male	13.6 ± 0.5	13.6 ± 0.5	13.9 ± 0.5	14.5 ± 0.5	15.6 ± 0.5	16.4 ± 0.6	17.5 ± 0.6	17.3 ± 0.6	18.2 ± 0.6	17.8 ± 0.6	19.2 ± 0.6	18.8 ± 0.6
	White	12.5 ± 0.5	13.8 ± 0.5	13.4 ± 0.5	14.6 ± 0.5	16.3 ± 0.5	17.2 ± 0.6	16.9 ± 0.5	16.4 ± 0.6	18.1 ± 0.6	18.6 ± 0.6	17.7 ± 0.6	19.6 ± 0.6
	Non-white	13.8 ± 0.4	13.6 ± 0.4	14.9 ± 0.4	15.4 ± 0.4	15.9 ± 0.4	16.8 ± 0.5	17.3 ± 0.5	18.3 ± 0.6	19.7 ± 0.5	18.8 ± 0.5	19.8 ± 0.5	19.9 ± 0.5

<sup>+</sup> Age standardized according to 2018 age distribution.

**Supplementary table 2: Age-standardized prevalence of hypertension by years of education, sex and skin colour, VIGITEL 2007-2018.**

Years of education	Survey year (95% CI)												Annual change (%)	p value
Sex and skin colour (%)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
<b>0-3 years</b>														
Total	55.2 (53.3; 57.2)	58.4 (56.5; 60.3)	60.8 (58.8; 62.8)	59.0 (57.0; 61.0)	57.0 (55.1; 58.9)	56.0 (53.5; 58.4)	56.6 (54.3; 58.9)	59.8 (57.3; 62.4)	57.9 (55.9; 59.9)	61.9 (59.7; 64.1)	59.2 (57.2; 61.2)	60.7 (58.8; 62.6)	0.29	0.112
Female	58.9 (56.5; 61.2)	62.4 (60.1; 64.7)	64.6 (62.2; 67.0)	63.0 (60.6; 65.4)	62.1 (59.9; 64.4)	60.0 (57.1; 62.9)	62.2 (59.5; 64.9)	62.5 (59.5; 65.6)	62.5 (60.1; 64.9)	66.7 (64.1; 69.3)	62.6 (60.3; 65.0)	63.6 (61.4; 65.9)	0.25	0.179
Male	46.2 (42.8; 49.5)	48.3 (45.0; 51.7)	50.7 (47.1; 54.3)	48.8 (45.2; 52.4)	43.3 (40.0; 46.7)	45.1 (40.8; 49.4)	43.3 (39.3; 47.2)	52.6 (48.2; 57.1)	45.3 (41.8; 48.9)	50.4 (46.5; 54.2)	50.5 (47.0; 54.0)	52.9 (49.5; 56.4)	0.35	0.112
White	54.6 (50.9; 58.2)	57.6 (54.0; 61.3)	59.0 (55.1; 63.0)	61.5 (57.7; 65.2)	58.9 (55.7; 62.0)	55.8 (51.9; 59.6)	56.9 (53.4; 60.4)	56.6 (52.7; 60.5)	57.2 (53.7; 60.7)	61.5 (58.2; 64.8)	58.6 (55.3; 62.0)	61.6 (58.3; 64.8)	0.34	0.156
Non-white	55.5 (53.2; 57.9)	58.8 (56.5; 61.0)	61.5 (59.2; 63.8)	57.9 (55.5; 60.3)	55.9 (53.6; 58.3)	56.1 (53.0; 59.2)	56.3 (53.3; 59.3)	62.5 (59.1; 65.8)	58.2 (55.8; 60.7)	62.3 (59.4; 65.2)	59.5 (57.1; 62.0)	60.2 (57.9; 62.5)	0.30	0.083
<b>4-8 years</b>														
Total	44.0 (42.8; 45.2)	45.4 (44.2; 46.6)	46.7 (45.5; 47.9)	46.9 (45.7; 48.0)	46.1 (44.9; 47.2)	47.1 (45.8; 48.4)	48.8 (47.6; 50.0)	47.1 (45.8; 48.4)	47.8 (46.7; 48.9)	49.6 (48.4; 50.9)	49.5 (48.4; 50.7)	49.5 (48.4; 50.6)	0.45	<0.001
Female	48.3 (46.8; 49.9)	50.6 (49.1; 52.2)	50.4 (48.9; 51.9)	50.9 (49.4; 52.4)	51.0 (49.6; 52.5)	52.1 (50.4; 53.8)	53.4 (51.9; 54.9)	51.3 (49.6; 53.0)	52.7 (51.3; 54.1)	54.1 (52.6; 55.7)	53.6 (52.2; 55.0)	53.5 (52.1; 54.9)	0.42	<0.001
Male	35.3 (33.4; 37.1)	34.6 (32.7; 36.4)	38.8 (36.9; 40.7)	38.2 (36.4; 40.1)	36.2 (34.5; 37.9)	36.7 (34.6; 38.7)	38.5 (36.6; 40.4)	37.9 (35.7; 40.0)	37.7 (36.0; 39.4)	40.5 (38.5; 42.4)	40.9 (39.0; 42.8)	40.6 (38.8; 42.5)	0.46	0.001
White	45.7 (43.6; 47.8)	48.2 (46.1; 50.3)	47.2 (45.0; 49.3)	48.5 (46.4; 50.6)	47.8 (45.9; 49.7)	48.9 (46.9; 51.0)	51.8 (49.9; 53.6)	48.0 (45.9; 50.0)	48.9 (47.0; 50.7)	50.7 (48.9; 52.5)	51.4 (49.6; 53.2)	50.1 (48.3; 51.9)	0.37	<0.001
Non-white	43.0 (41.5; 44.4)	43.9 (42.4; 45.3)	46.4 (44.9; 47.9)	45.9 (44.5; 47.4)	44.8 (43.3; 46.3)	45.6 (43.8; 47.3)	46.1 (44.5; 47.7)	46.4 (44.6; 48.2)	47.2 (45.8; 48.6)	48.7 (47.1; 50.4)	48.3 (46.8; 49.7)	49.1 (47.7; 50.6)	0.48	<0.001
<b>9-11 years</b>														
Total	27.2 (26.3; 28.1)	29.2 (28.3; 30.1)	29.6 (28.7; 30.5)	30.7 (29.9; 31.6)	29.2 (28.3; 30.0)	29.3 (28.4; 30.2)	28.8 (28.0; 29.6)	29.4 (28.5; 30.3)	30.0 (29.3; 30.8)	30.6 (29.8; 31.4)	29.8 (29.0; 30.6)	30.3 (29.5; 31.1)	0.17	0.112
Female	29.0 (27.8; 30.2)	31.4 (30.2; 32.6)	31.6 (30.4; 32.7)	32.7 (31.6; 33.9)	31.0 (29.9; 32.1)	31.5 (30.3; 32.6)	31.0 (29.9; 32.1)	31.3 (30.1; 32.5)	32.9 (31.9; 33.9)	32.6 (31.5; 33.7)	32.0 (31.0; 33.1)	33.1 (32.0; 34.1)	0.22	0.043
Male	24.1 (22.8; 25.4)	25.5 (24.2; 26.7)	26.2 (24.9; 27.5)	27.1 (25.8; 28.4)	26.1 (24.9; 27.3)	25.5 (24.2; 26.8)	25.2 (24.1; 26.4)	26.2 (24.9; 27.6)	25.2 (24.1; 26.3)	27.2 (26.1; 28.4)	26.0 (24.9; 27.2)	25.5 (24.3; 26.6)	0.07	0.496
White	27.9 (26.4; 29.4)	31.4 (29.9; 32.9)	31.3 (29.8; 32.7)	33.1 (31.6; 34.6)	32.4 (31.0; 33.8)	33.3 (31.8; 34.7)	31.1 (29.8; 32.4)	31.8 (30.4; 33.3)	31.4 (30.2; 32.7)	33.4 (32.2; 34.7)	32.0 (30.7; 33.3)	31.9 (30.6; 33.1)	0.21	0.276
Non-white	26.7 (25.6; 27.8)	27.8 (26.7; 28.9)	28.5 (27.5; 29.6)	29.3 (28.2; 30.3)	26.8 (25.8; 27.8)	26.3 (25.2; 27.4)	27.1 (26.0; 28.1)	27.7 (26.5; 28.8)	29.2 (28.2; 30.1)	28.6 (27.6; 29.6)	28.5 (27.5; 29.4)	29.3 (28.3; 30.2)	0.16	0.040
<b>12 or more years</b>														
Total	23.7 (22.7; 24.6)	25.0 (24.0; 25.9)	25.0 (24.1; 25.9)	25.6 (24.7; 26.5)	25.3 (24.4; 26.2)	24.4 (23.5; 25.3)	23.8 (23.0; 24.6)	25.1 (24.2; 26.0)	25.2 (24.5; 25.9)	25.3 (24.6; 26.0)	24.6 (23.9; 25.3)	23.8 (23.1; 24.4)	-0.01	0.954
Female	22.4 (21.1; 23.6)	23.9 (22.7; 25.1)	24.3 (23.2; 25.5)	25.4 (24.3; 26.5)	24.3 (23.2; 25.5)	23.9 (22.7; 25.0)	23.0 (22.0; 24.0)	25.0 (23.8; 26.2)	25.2 (24.2; 26.1)	24.7 (23.8; 25.6)	24.0 (23.2; 24.9)	23.6 (22.8; 24.5)	0.08	0.504
Male	25.7 (24.3; 27.1)	26.6 (25.2; 28.0)	26.0 (24.6; 27.4)	26.0 (24.6; 27.3)	26.9 (25.6; 28.2)	25.4 (24.0; 26.8)	25.2 (24.0; 26.4)	25.3 (23.8; 26.7)	25.2 (24.1; 26.4)	26.3 (25.2; 27.4)	25.6 (24.5; 26.6)	24.0 (23.0; 25.1)	-0.12	0.092
White	24.7 (23.4; 26.0)	25.2 (23.9; 26.4)	24.7 (23.5; 26.0)	26.7 (25.5; 27.9)	26.4 (25.2; 27.6)	25.4 (24.1; 26.6)	25.9 (24.8; 27.0)	26.7 (25.4; 27.9)	26.8 (25.8; 27.9)	27.1 (26.1; 28.0)	26.0 (25.1; 27.0)	25.0 (24.0; 25.9)	0.08	0.424
Non-white	22.3 (21.0; 23.6)	24.7 (23.4; 26.0)	25.3 (24.0; 26.6)	24.2 (23.0; 25.5)	23.8 (22.5; 25.0)	23.2 (21.9; 24.5)	21.1 (20.0; 22.1)	23.3 (22.0; 24.6)	23.2 (22.2; 24.2)	23.2 (22.2; 24.2)	23.0 (22.0; 23.9)	22.5 (21.5; 23.4)	-0.11	0.357

**Supplementary table 3: Age-standardized prevalence of diabetes by years of education, sex and skin colour, VIGITEL 2007-2018.**

Years of education	Survey year (95% CI)												Annual change (%)	p value
Sex and skin colour (%)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
<b>0-3 years</b>														
Total	17.2 (15.6; 18.7)	18.8 (17.2; 20.4)	20.3 (18.5; 22.0)	19.9 (18.2; 21.6)	20.0 (18.4; 21.6)	20.0 (18.0; 22.0)	19.7 (17.8; 21.5)	23.6 (21.4; 25.9)	22.1 (20.3; 23.8)	25.9 (23.9; 28.0)	22.4 (20.8; 24.1)	24.4 (22.7; 26.0)	0.60	<0.001
Female	18.2 (16.3; 20.1)	20.1 (18.1; 22.1)	21.4 (19.2; 23.6)	20.8 (18.6; 22.9)	21.7 (19.8; 23.7)	21.8 (19.3; 24.3)	21.7 (19.3; 24.1)	25.6 (22.7; 28.4)	23.7 (21.6; 25.9)	28.1 (25.6; 30.6)	24.0 (22.0; 26.1)	25.8 (23.8; 27.9)	0.67	<0.001
Male	14.6 (12.3; 16.9)	15.6 (13.1; 18.0)	17.2 (14.3; 20.1)	17.7 (14.9; 20.4)	15.3 (12.8; 17.7)	15.2 (12.0; 18.4)	14.8 (12.0; 17.5)	18.6 (15.1; 22.0)	17.5 (14.8; 20.2)	20.7 (17.6; 23.8)	18.5 (15.8; 21.2)	20.6 (17.9; 23.4)	0.45	0.001
White	15.7 (13.1; 18.4)	18.3 (15.4; 21.1)	20.2 (16.8; 23.6)	20.3 (16.9; 23.6)	18.1 (15.6; 20.5)	18.0 (15.1; 20.9)	19.4 (16.5; 22.2)	23.2 (19.8; 26.6)	22.5 (19.5; 25.5)	25.2 (22.2; 28.1)	21.7 (18.9; 24.5)	21.5 (18.8; 24.2)	0.55	0.014
Non-white	17.8 (16.0; 19.7)	19.1 (17.2; 21.0)	20.3 (18.2; 22.3)	19.7 (17.7; 21.7)	21.1 (19.1; 23.1)	21.5 (18.8; 24.3)	19.9 (17.4; 22.4)	24.0 (20.9; 27.0)	21.8 (19.7; 23.9)	26.6 (23.9; 29.4)	22.9 (20.8; 24.9)	25.9 (23.8; 28.0)	0.62	<0.001
<b>4-8 years</b>														
Total	11.5 (10.7; 12.4)	12.0 (11.2; 12.9)	13.5 (12.6; 14.4)	14.0 (13.1; 14.9)	14.4 (13.5; 15.3)	14.6 (13.7; 15.6)	15.4 (14.5; 16.3)	16.8 (15.8; 17.9)	15.8 (15.0; 16.6)	19.0 (18.0; 20.0)	17.2 (16.3; 18.0)	17.7 (16.8; 18.5)	0.60	<0.001
Female	12.4 (11.3; 13.5)	13.1 (12.0; 14.2)	13.8 (12.7; 15.0)	14.7 (13.6; 15.8)	15.8 (14.7; 17.0)	15.0 (13.8; 16.3)	16.0 (14.8; 17.2)	17.3 (16.0; 18.6)	16.6 (15.6; 17.7)	20.2 (18.9; 21.4)	17.7 (16.6; 18.8)	18.0 (17.0; 19.1)	0.58	<0.001
Male	9.8 (8.7; 11.0)	9.8 (8.6; 11.0)	12.7 (11.3; 14.1)	12.5 (11.2; 13.9)	11.7 (10.5; 12.9)	13.8 (12.3; 15.3)	14.1 (12.7; 15.6)	15.7 (14.1; 17.4)	14.0 (12.8; 15.2)	16.7 (15.2; 18.1)	16.1 (14.7; 17.5)	16.8 (15.4; 18.2)	0.63	<0.001
White	12.3 (10.8; 13.7)	12.7 (11.2; 14.2)	13.9 (12.3; 15.4)	15.5 (13.9; 17.1)	15.3 (13.9; 16.8)	14.1 (12.7; 15.6)	16.5 (15.0; 17.9)	17.0 (15.4; 18.5)	15.8 (14.5; 17.2)	20.6 (19.1; 22.0)	17.6 (16.3; 19.0)	18.3 (16.9; 19.7)	0.58	<0.001
Non-white	11.1 (10.1; 12.1)	11.6 (10.6; 12.6)	13.3 (12.2; 14.4)	13.1 (12.1; 14.2)	13.8 (12.7; 14.9)	15.0 (13.7; 16.3)	14.5 (13.3; 15.7)	16.7 (15.4; 18.1)	15.7 (14.7; 16.8)	17.6 (16.4; 18.9)	16.9 (15.8; 18.0)	17.3 (16.2; 18.4)	0.59	<0.001
<b>9-11 years</b>														
Total	6.5 (6.0; 7.1)	7.1 (6.6; 7.7)	7.6 (7.1; 8.2)	8.4 (7.9; 9.0)	7.8 (7.3; 8.3)	8.4 (7.8; 9.0)	7.7 (7.2; 8.2)	8.9 (8.3; 9.5)	8.8 (8.3; 9.3)	10.4 (9.8; 10.9)	8.9 (8.4; 9.3)	8.9 (8.5; 9.4)	0.23	0.001
Female	6.7 (6.0; 7.4)	7.3 (6.5; 8.0)	7.8 (7.0; 8.5)	8.9 (8.1; 9.6)	7.9 (7.2; 8.6)	8.6 (7.9; 9.4)	7.9 (7.3; 8.6)	9.1 (8.3; 9.9)	9.4 (8.7; 10.0)	11.0 (10.3; 11.7)	8.9 (8.3; 9.5)	9.1 (8.5; 9.7)	0.24	0.003
Male	6.3 (5.5; 7.0)	6.8 (6.0; 7.7)	7.4 (6.6; 8.2)	7.6 (6.8; 8.4)	7.6 (6.8; 8.3)	8.0 (7.1; 8.8)	7.3 (6.6; 8.1)	8.6 (7.7; 9.5)	7.7 (7.1; 8.4)	9.4 (8.6; 10.1)	8.8 (8.1; 9.5)	8.6 (7.9; 9.4)	0.21	<0.001
White	6.9 (6.0; 7.8)	8.3 (7.3; 9.4)	8.0 (7.1; 9.0)	9.8 (8.8; 10.8)	9.1 (8.2; 10.0)	9.3 (8.4; 10.2)	8.6 (7.8; 9.5)	9.7 (8.8; 10.7)	9.5 (8.7; 10.3)	11.5 (10.6; 12.4)	9.8 (9.0; 10.6)	9.5 (8.7; 10.3)	0.23	0.009
Non-white	6.3 (5.6; 7.0)	6.4 (5.7; 7.0)	7.4 (6.7; 8.0)	7.6 (6.9; 8.2)	6.8 (6.2; 7.5)	7.7 (7.0; 8.4)	7.0 (6.4; 7.6)	8.3 (7.5; 9.0)	8.3 (7.7; 8.9)	9.6 (8.9; 10.3)	8.3 (7.7; 8.8)	8.6 (8.0; 9.2)	0.23	<0.001
<b>12 or more years</b>														
Total	5.6 (5.1; 6.2)	5.7 (5.1; 6.2)	6.6 (6.0; 7.1)	6.8 (6.3; 7.4)	6.3 (5.7; 6.8)	6.2 (5.7; 6.8)	5.8 (5.4; 6.2)	6.7 (6.2; 7.3)	6.4 (6.0; 6.8)	8.4 (8.0; 8.9)	6.6 (6.2; 7.0)	6.4 (6.0; 6.7)	0.10	0.094
Female	4.7 (4.0; 5.3)	4.7 (4.1; 5.3)	5.9 (5.1; 6.6)	6.5 (5.8; 7.2)	5.6 (5.0; 6.2)	6.0 (5.3; 6.7)	5.4 (4.8; 5.9)	6.7 (6.0; 7.5)	6.1 (5.6; 6.7)	7.9 (7.4; 8.5)	6.1 (5.6; 6.6)	6.1 (5.6; 6.5)	0.15	0.028
Male	7.1 (6.2; 8.1)	7.2 (6.3; 8.1)	7.7 (6.8; 8.6)	7.4 (6.6; 8.3)	7.4 (6.5; 8.2)	6.6 (5.8; 7.5)	6.6 (5.9; 7.3)	6.7 (5.9; 7.6)	6.9 (6.2; 7.5)	9.3 (8.5; 10.0)	7.6 (6.9; 8.2)	6.9 (6.2; 7.5)	0.02	0.748
White	5.7 (4.9; 6.4)	5.6 (4.9; 6.3)	6.7 (5.9; 7.5)	7.1 (6.4; 7.8)	6.7 (6.0; 7.5)	6.3 (5.6; 7.0)	6.4 (5.8; 7.1)	7.3 (6.5; 8.1)	7.0 (6.4; 7.6)	9.3 (8.6; 9.9)	7.2 (6.7; 7.8)	6.8 (6.2; 7.3)	0.16	0.041
Non-white	5.6 (4.8; 6.4)	5.7 (5.0; 6.5)	6.4 (5.6; 7.2)	6.5 (5.8; 7.3)	5.6 (4.9; 6.3)	6.2 (5.4; 6.9)	5.0 (4.4; 5.6)	6.1 (5.3; 6.8)	5.8 (5.2; 6.3)	7.4 (6.8; 8.0)	6.0 (5.4; 6.5)	5.9 (5.3; 6.4)	0.03	0.447

**Supplementary table 4:** Age-standardized prevalence of smoking by years of education, sex and skin colour, VIGITEL 2007-2018.

Years of education		Survey year (95% CI)											Annual change (%)	p value	
Sex and skin colour (%)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018			
0-3 years															
Total	13.0 (11.7; 14.2)	12.9 (11.6; 14.1)	12.6 (11.3; 13.9)	11.6 (10.4; 12.9)	12.4 (11.2; 13.6)	11.0 (9.5; 12.4)	11.8 (10.3; 13.3)	11.7 (10.1; 13.4)	9.9 (8.7; 11.1)	11.8 (10.2; 13.3)	9.8 (8.6; 11.0)	9.0 (7.9; 10.2)	-0.29	<0.001	
Female	10.7 (9.3; 12.1)	11.1 (9.7; 12.6)	10.9 (9.4; 12.4)	10.9 (9.3; 12.4)	10.1 (8.8; 11.5)	9.5 (7.9; 11.2)	9.7 (8.1; 11.4)	10.4 (8.4; 12.3)	8.3 (7.0; 9.7)	10.3 (8.5; 12.1)	8.5 (7.0; 9.9)	9.0 (7.6; 10.4)	-0.22	<0.001	
Male	18.6 (16.0; 21.2)	17.4 (15.0; 19.8)	17.1 (14.5; 19.6)	13.6 (11.3; 15.9)	18.5 (15.9; 21.0)	14.8 (11.8; 17.8)	16.7 (13.8; 19.7)	15.3 (12.1; 18.5)	14.3 (11.8; 16.8)	15.3 (12.4; 18.2)	13.3 (10.9; 15.6)	9.1 (7.1; 11.1)	-0.54	0.005	
White	10.4 (8.2; 12.5)	9.9 (7.8; 11.9)	10.9 (8.5; 13.3)	9.7 (7.5; 11.9)	11.4 (9.4; 13.3)	11.4 (9.0; 13.9)	10.2 (8.2; 12.3)	10.7 (8.2; 13.1)	8.2 (6.3; 10.0)	9.4 (7.4; 11.4)	8.2 (6.3; 10.0)	8.1 (6.2; 10.0)	-0.21	0.013	
Non-white	14.1 (12.6; 15.7)	14.2 (12.6; 15.7)	13.2 (11.6; 14.7)	12.5 (10.9; 14.0)	13.0 (11.5; 14.6)	10.6 (8.8; 12.4)	13.1 (11.0; 15.2)	12.6 (10.3; 14.8)	10.9 (9.3; 12.4)	13.8 (11.6; 16.1)	10.8 (9.2; 12.3)	9.5 (8.1; 11.0)	-0.28	0.004	
4-8 years															
Total	14.4 (13.6; 15.1)	15.0 (14.2; 15.8)	14.7 (13.9; 15.5)	14.3 (13.5; 15.1)	13.6 (12.9; 14.4)	13.5 (12.6; 14.4)	11.4 (10.7; 12.2)	11.7 (10.8; 12.5)	10.4 (9.7; 11.1)	10.8 (10.1; 11.6)	10.0 (9.3; 10.7)	10.8 (10.1; 11.5)	-0.47	<0.001	
Female	11.6 (10.6; 12.5)	12.6 (11.7; 13.6)	12.7 (11.7; 13.6)	12.2 (11.3; 13.2)	10.9 (10.0; 11.8)	11.3 (10.2; 12.3)	9.5 (8.6; 10.4)	9.9 (8.9; 10.8)	8.8 (8.0; 9.6)	8.7 (7.8; 9.6)	8.0 (7.2; 8.8)	9.1 (8.2; 9.9)	-0.40	0.001	
Male	19.9 (18.5; 21.3)	19.9 (18.4; 21.3)	19.0 (17.6; 20.4)	18.6 (17.2; 20.0)	19.0 (17.6; 20.4)	18.1 (16.6; 19.7)	15.7 (14.2; 17.1)	15.7 (14.1; 17.3)	13.7 (12.5; 15.0)	15.1 (13.7; 16.5)	14.2 (12.9; 15.6)	14.6 (13.2; 16.0)	-0.59	<0.001	
White	13.7 (12.4; 15.1)	13.2 (11.9; 14.5)	13.4 (12.0; 14.8)	12.7 (11.3; 14.0)	12.7 (11.5; 13.9)	12.1 (10.8; 13.4)	10.8 (9.7; 11.9)	10.4 (9.2; 11.7)	10.5 (9.4; 11.7)	10.5 (9.4; 11.6)	9.8 (8.7; 11.0)	10.0 (8.9; 11.1)	-0.38	<0.001	
Non-white	14.7 (13.8; 15.7)	16.0 (15.0; 17.0)	15.4 (14.4; 16.4)	15.2 (14.2; 16.1)	14.3 (13.3; 15.3)	14.6 (13.5; 15.8)	12.0 (11.0; 13.0)	12.7 (11.5; 13.8)	10.3 (9.5; 11.2)	11.1 (10.1; 12.1)	10.1 (9.2; 10.9)	11.3 (10.4; 12.3)	-0.54	<0.001	
9-11 years															
Total	12.9 (12.3; 13.6)	11.4 (10.8; 11.9)	11.4 (10.9; 12.0)	10.8 (10.3; 11.4)	10.4 (9.9; 10.9)	9.5 (8.9; 10.0)	8.8 (8.3; 9.3)	8.2 (7.7; 8.8)	8.0 (7.6; 8.5)	7.7 (7.3; 8.2)	7.4 (7.0; 7.9)	7.3 (6.9; 7.7)	-0.51	<0.001	
Female	11.2 (10.5; 12.0)	9.6 (8.9; 10.3)	9.4 (8.7; 10.1)	9.7 (9.1; 10.4)	8.9 (8.2; 9.5)	8.0 (7.4; 8.7)	7.1 (6.5; 7.7)	7.1 (6.4; 7.7)	6.4 (5.9; 7.0)	6.7 (6.1; 7.2)	6.1 (5.5; 6.6)	5.9 (5.4; 6.4)	-0.47	<0.001	
Male	15.9 (14.9; 16.9)	14.4 (13.4; 15.3)	14.9 (13.9; 15.9)	12.8 (11.9; 13.7)	12.9 (12.0; 13.7)	12.0 (11.1; 13.0)	11.6 (10.8; 12.5)	10.2 (9.3; 11.0)	10.7 (9.9; 11.5)	9.5 (8.7; 10.3)	9.7 (8.9; 10.5)	9.7 (8.9; 10.5)	-0.58	<0.001	
White	13.3 (12.3; 14.3)	12.1 (11.1; 13.1)	12.2 (11.3; 13.2)	12.4 (11.4; 13.3)	11.3 (10.4; 12.2)	10.9 (10.0; 11.9)	9.6 (8.8; 10.4)	9.4 (8.5; 10.3)	9.3 (8.5; 10.1)	8.6 (7.8; 9.3)	8.8 (8.0; 9.6)	8.5 (7.7; 9.3)	-0.46	<0.001	
Non-white	12.7 (11.9; 13.4)	10.9 (10.2; 11.6)	10.9 (10.2; 11.6)	9.8 (9.2; 10.5)	9.8 (9.1; 10.4)	8.4 (7.7; 9.0)	8.2 (7.6; 8.8)	7.4 (6.7; 8.1)	7.3 (6.8; 7.8)	7.2 (6.6; 7.8)	6.6 (6.1; 7.1)	6.5 (6.0; 7.1)	-0.54	<0.001	
12 or more years															
Total	11.8 (11.1; 12.4)	10.7 (10.0; 11.3)	9.9 (9.3; 10.5)	9.1 (8.6; 9.7)	9.1 (8.5; 9.6)	8.0 (7.4; 8.6)	6.8 (6.3; 7.2)	6.8 (6.3; 7.4)	6.6 (6.2; 7.0)	6.3 (5.9; 6.7)	6.2 (5.8; 6.6)	5.6 (5.2; 5.9)	-0.55	<0.001	
Female	10.1 (9.3; 10.9)	9.4 (8.6; 10.2)	9.1 (8.4; 9.9)	8.1 (7.4; 8.8)	8.2 (7.5; 8.9)	6.8 (6.1; 7.6)	6.0 (5.4; 6.5)	6.1 (5.4; 6.8)	5.6 (5.1; 6.1)	5.0 (4.5; 5.5)	5.2 (4.7; 5.7)	4.5 (4.1; 5.0)	-0.51	<0.001	
Male	14.3 (13.3; 15.4)	12.7 (11.6; 13.7)	11.2 (10.2; 12.1)	10.9 (9.9; 11.8)	10.5 (9.6; 11.4)	10.0 (9.1; 11.0)	8.2 (7.4; 8.9)	8.1 (7.2; 9.1)	8.2 (7.4; 8.9)	8.5 (7.8; 9.2)	7.9 (7.2; 8.6)	7.3 (6.7; 8.0)	-0.60	<0.001	
White	12.3 (11.4; 13.1)	12.0 (11.1; 12.9)	11.4 (10.5; 12.2)	10.3 (9.5; 11.1)	10.0 (9.3; 10.8)	9.4 (8.5; 10.2)	7.8 (7.1; 8.5)	8.7 (7.8; 9.5)	8.0 (7.3; 8.6)	7.2 (6.6; 7.8)	7.4 (6.8; 8.0)	6.6 (6.1; 7.2)	-0.52	<0.001	
Non-white	11.1 (10.2; 12.1)	9.0 (8.2; 9.8)	8.1 (7.4; 8.9)	7.7 (6.9; 8.4)	7.7 (6.9; 8.5)	6.2 (5.5; 7.0)	5.5 (4.9; 6.0)	4.6 (4.0; 5.3)	4.9 (4.4; 5.5)	5.2 (4.7; 5.7)	4.8 (4.3; 5.3)	4.4 (3.9; 4.9)	-0.58	<0.001	

**Supplementary table 5: Age-standardized prevalence of obesity by years of education, sex and skin colour, VIGITEL 2007-2018.**

Years of education	Survey year (95% CI)												Annual change (%)	p value
Sex and skin colour (%)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
<b>0-3 years</b>														
Total	21.3 (19.6; 22.9)	23.2 (21.5; 24.9)	22.7 (21.0; 24.5)	22.7 (20.9; 24.4)	24.1 (22.4; 25.7)	25.6 (23.4; 27.7)	23.5 (21.5; 25.4)	26.5 (24.2; 28.8)	26.8 (24.9; 28.6)	27.6 (25.6; 29.6)	27.1 (25.3; 28.9)	28.4 (26.7; 30.2)	0.60	<0.001
Female	23.8 (21.7; 25.8)	26.8 (24.7; 28.9)	25.2 (23.0; 27.4)	25.3 (23.2; 27.5)	27.1 (25.1; 29.2)	28.9 (26.1; 31.6)	26.2 (23.7; 28.7)	29.6 (26.7; 32.5)	29.4 (27.2; 31.7)	30.3 (27.7; 32.8)	29.6 (27.4; 31.9)	31.2 (29.1; 33.4)	0.57	<0.001
Male	15.0 (12.7; 17.3)	14.1 (11.8; 16.3)	16.2 (13.6; 18.9)	15.9 (13.4; 18.4)	16.0 (13.5; 18.4)	16.8 (13.6; 19.9)	17.0 (14.1; 19.8)	18.4 (15.0; 21.7)	19.5 (16.7; 22.3)	21.2 (18.1; 24.3)	20.8 (18.0; 23.6)	21.1 (18.4; 23.8)	0.65	<0.001
White	20.5 (17.6; 23.4)	23.3 (20.1; 26.4)	20.3 (17.0; 23.6)	21.4 (18.3; 24.6)	24.6 (21.8; 27.4)	24.5 (21.1; 27.9)	24.3 (21.2; 27.4)	26.3 (22.8; 29.9)	25.9 (22.8; 29.0)	28.2 (25.1; 31.2)	26.7 (23.7; 29.7)	26.6 (23.7; 29.6)	0.64	<0.001
Non-white	21.6 (19.7; 23.6)	23.2 (21.2; 25.2)	23.7 (21.6; 25.8)	23.2 (21.2; 25.3)	23.8 (21.8; 25.8)	26.3 (23.5; 29.2)	22.8 (20.3; 25.4)	26.6 (23.6; 29.7)	27.2 (25.0; 29.5)	27.1 (24.4; 29.8)	27.4 (25.1; 29.6)	29.4 (27.2; 31.6)	0.58	<0.001
<b>4-8 years</b>														
Total	17.0 (16.2; 17.9)	18.7 (17.7; 19.6)	19.3 (18.4; 20.3)	20.2 (19.3; 21.1)	20.6 (19.7; 21.6)	22.0 (20.9; 23.1)	22.4 (21.4; 23.4)	22.8 (21.7; 23.9)	23.9 (22.9; 24.8)	24.6 (23.6; 25.6)	23.9 (22.9; 24.8)	24.5 (23.6; 25.5)	0.67	<0.001
Female	17.9 (16.7; 19.0)	20.4 (19.2; 21.7)	20.5 (19.2; 21.7)	21.3 (20.1; 22.5)	22.1 (20.8; 23.3)	23.8 (22.3; 25.2)	23.6 (22.3; 24.9)	24.7 (23.3; 26.2)	25.7 (24.5; 26.9)	25.9 (24.5; 27.2)	24.5 (23.3; 25.7)	26.4 (25.1; 27.6)	0.70	<0.001
Male	15.4 (14.1; 16.7)	15.0 (13.7; 16.2)	16.9 (15.4; 18.3)	17.9 (16.5; 19.2)	17.8 (16.5; 19.1)	18.3 (16.8; 19.9)	19.8 (18.3; 21.4)	18.6 (16.9; 20.3)	20.2 (18.8; 21.6)	22.0 (20.4; 23.6)	22.5 (20.9; 24.1)	20.5 (19.0; 22.0)	0.62	<0.001
White	16.7 (15.1; 18.2)	19.3 (17.6; 21.0)	19.4 (17.7; 21.1)	20.4 (18.7; 22.1)	20.3 (18.8; 21.8)	22.0 (20.3; 23.7)	21.9 (20.4; 23.5)	22.8 (21.0; 24.5)	23.8 (22.2; 25.4)	24.6 (23.0; 26.1)	23.5 (21.9; 25.0)	24.4 (22.9; 26.0)	0.65	<0.001
Non-white	17.3 (16.2; 18.3)	18.3 (17.2; 19.5)	19.3 (18.1; 20.4)	20.1 (19.0; 21.2)	20.8 (19.7; 22.0)	22.0 (20.6; 23.4)	22.9 (21.5; 24.2)	22.8 (21.4; 24.3)	24.0 (22.8; 25.1)	24.6 (23.2; 26.0)	24.1 (22.9; 25.4)	24.6 (23.4; 25.9)	0.68	<0.001
<b>9-11 years</b>														
Total	12.8 (12.2; 13.4)	13.9 (13.2; 14.5)	14.4 (13.8; 15.1)	16.0 (15.3; 16.6)	16.5 (15.9; 17.1)	17.4 (16.7; 18.1)	17.5 (16.8; 18.1)	18.5 (17.8; 19.3)	18.7 (18.1; 19.3)	19.1 (18.4; 19.8)	18.5 (17.9; 19.2)	19.6 (18.9; 20.2)	0.60	<0.001
Female	12.2 (11.3; 13.0)	13.5 (12.6; 14.3)	14.2 (13.4; 15.1)	15.6 (14.8; 16.5)	16.2 (15.3; 17.0)	17.5 (16.6; 18.4)	17.2 (16.3; 18.0)	18.8 (17.8; 19.8)	19.1 (18.3; 19.9)	19.3 (18.5; 20.2)	18.6 (17.7; 19.4)	19.9 (19.0; 20.7)	0.68	<0.001
Male	14.0 (13.1; 14.9)	14.5 (13.6; 15.4)	14.8 (13.8; 15.7)	16.6 (15.6; 17.6)	17.0 (16.0; 17.9)	17.2 (16.2; 18.3)	17.9 (16.9; 18.9)	18.1 (17.0; 19.2)	18.0 (17.0; 18.9)	18.7 (17.7; 19.7)	18.5 (17.4; 19.5)	19.0 (18.0; 20.1)	0.46	<0.001
White	12.8 (11.7; 13.8)	14.0 (12.9; 15.1)	14.3 (13.2; 15.3)	15.8 (14.7; 16.9)	16.9 (15.8; 18.0)	18.1 (16.9; 19.2)	16.9 (15.9; 18.0)	18.5 (17.3; 19.7)	18.1 (17.1; 19.2)	18.4 (17.4; 19.5)	17.6 (16.6; 18.6)	18.9 (17.8; 20.0)	0.52	0.001
Non-white	12.9 (12.1; 13.6)	13.8 (13.0; 14.6)	14.5 (13.8; 15.3)	16.1 (15.3; 16.9)	16.2 (15.4; 17.0)	16.9 (16.0; 17.8)	17.9 (17.0; 18.7)	18.6 (17.6; 19.5)	19.0 (18.2; 19.8)	19.6 (18.7; 20.4)	19.1 (18.3; 19.9)	20.0 (19.1; 20.8)	0.64	<0.001
<b>12 or more years</b>														
Total	11.6 (11.0; 12.3)	11.5 (10.9; 12.1)	12.8 (12.1; 13.4)	13.3 (12.7; 13.9)	14.7 (14.1; 15.4)	14.9 (14.2; 15.6)	15.2 (14.6; 15.8)	15.0 (14.2; 15.7)	15.1 (14.6; 15.7)	15.6 (15.1; 16.2)	16.1 (15.5; 16.7)	16.8 (16.2; 17.4)	0.46	<0.001
Female	9.4 (8.6; 10.2)	9.4 (8.6; 10.1)	11.3 (10.5; 12.2)	12.0 (11.2; 12.8)	13.0 (12.1; 13.8)	13.7 (12.8; 14.6)	12.7 (12.0; 13.5)	13.5 (12.6; 14.4)	13.5 (12.8; 14.2)	13.8 (13.1; 14.5)	14.3 (13.6; 15.0)	15.1 (14.3; 15.8)	0.48	<0.001
Male	15.1 (14.0; 16.1)	14.9 (13.8; 16.0)	15.0 (14.0; 16.1)	15.6 (14.6; 16.6)	17.6 (16.6; 18.7)	17.0 (15.9; 18.1)	19.5 (18.4; 20.5)	17.5 (16.3; 18.7)	17.8 (16.8; 18.8)	18.6 (17.6; 19.6)	19.2 (18.2; 20.1)	19.7 (18.7; 20.7)	0.45	<0.001
White	11.2 (10.4; 12.1)	11.1 (10.3; 12.0)	12.2 (11.3; 13.1)	12.8 (12.0; 13.7)	14.1 (13.2; 15.0)	14.4 (13.5; 15.4)	14.9 (14.1; 15.7)	14.5 (13.5; 15.5)	14.7 (13.9; 15.5)	15.1 (14.3; 15.8)	14.9 (14.1; 15.7)	16.1 (15.3; 16.9)	0.43	<0.001
Non-white	12.2 (11.2; 13.2)	12.0 (11.1; 12.9)	13.5 (12.5; 14.5)	13.9 (13.0; 14.8)	15.5 (14.5; 16.5)	15.5 (14.4; 16.5)	15.6 (14.7; 16.5)	15.5 (14.5; 16.6)	15.6 (14.8; 16.4)	16.3 (15.5; 17.2)	17.4 (16.6; 18.3)	17.6 (16.7; 18.4)	0.48	<0.001

