

SADHS

South Africa Demographic and Health Survey 2016



**South Africa
Demographic and Health Survey
2016**

January 2019

South Africa Demographic and Health Survey 2016: Report, National Department of Health (NDoH), Statistics South Africa (Stats SA), South African Medical Research Council (SAMRC), and ICF

Published by National Department of Health, Civitas Building, Corner Struben and Thabo Sehume Streets, PRETORIA 0001

Financial support for the SADHS 2016 was provided by the government of South Africa through the NDoH and SAMRC, the Global Fund to Fight AIDS, Tuberculosis and Malaria (Global Fund), the European Union (EU), the United Nations Children's Fund (UNICEF), the United Nations Population Fund (UNFPA). ICF provided technical assistance through The DHS Program, which is funded by the United States Agency for International Development (USAID), and offers support and technical assistance for the implementation of population and health surveys in countries worldwide.

This report is available on the NDoH website: www.health.gov.za; Stats SA website: www.statssa.gov.za; SAMRC website: www.samrc.ac.za; and on The DHS Program website: www.DHSprogram.com.

Copies are obtainable from: National Department of Health

Tel.: 012 395 8000

012 395 8125

E-mail: tshilidzi.muthivhi@health.gov.za

Additional information about the South Africa Demographic and Health Survey 2016 (SADHS 2016) may be obtained from the Cluster Manager: Health Information, Research, Monitoring & Evaluation, National Department of Health, Civitas Building, Pretoria, South Africa; +27 (012) 395 8411; e-mail: thulile.zondi@health.co.za.

Information about The DHS Program may be obtained from ICF, 530 Gaither Road, Suite 500, Rockville, MD 20850, USA; telephone: +1-301-407-6500; fax: +1-301-407-6501; e-mail: info@DHSprogram.com; Internet: www.DHSprogram.com.

Photo credits: Cover pictures obtained from NDoH photo library.

Recommended citation:

National Department of Health (NDoH), Statistics South Africa (Stats SA), South African Medical Research Council (SAMRC), and ICF. 2019. *South Africa Demographic and Health Survey 2016*. Pretoria, South Africa, and Rockville, Maryland, USA: NDoH, Stats SA, SAMRC, and ICF.

CONTENTS

TABLES AND FIGURES	ix
ACKNOWLEDGEMENTS	xix
ABBREVIATIONS	xxi
READING AND UNDERSTANDING TABLES FROM THE SOUTH AFRICA DHS (SADHS) 2016	xxiii
SUSTAINABLE DEVELOPMENT GOAL INDICATORS	xxxii
MAP OF SOUTH AFRICA	xxxii
1 INTRODUCTION AND SURVEY METHODOLOGY	1
1.1 Survey Objectives.....	1
1.2 Sample Design.....	1
1.3 Questionnaires	3
1.4 Measuring Iodine Content of Household Salt	4
1.5 Anthropometry, Anaemia Testing, Blood Pressure Measurement, HbA1c Testing, and HIV Testing	5
1.6 Pretest	7
1.7 Training of Field Staff	7
1.8 Fieldwork.....	8
1.9 Data Processing and Analysis.....	8
1.10 Response Rates	9
2 HOUSING CHARACTERISTICS AND HOUSEHOLD POPULATION	11
2.1 Drinking Water Sources and Treatment	12
2.2 Sanitation	13
2.3 Exposure to Smoke inside the Home.....	13
2.4 Household Wealth	14
2.5 Handwashing	14
2.6 Household Population and Composition	15
2.7 Children’s Living Arrangements and Parental Survival	16
2.8 Education.....	16
2.8.1 Educational Attainment	16
2.8.2 School Attendance	17
2.9 Disability	18
2.9.1 Disability by Domain and Age	18
2.9.2 Disability by Background Characteristics.....	19
2.10 Social Grants and Food Security	19
2.10.1 Social Grants by Background Characteristics.....	19
2.10.2 Food Security by Background Characteristics.....	20
3 CHARACTERISTICS OF RESPONDENTS	35
3.1 Basic Characteristics of Survey Respondents.....	35
3.2 Education and Literacy	36
3.3 Mass Media Exposure and Internet Usage	37
3.4 Employment	38
3.5 Occupation.....	39
3.6 Adult Health	40

4	MARRIAGE AND SEXUAL ACTIVITY	57
4.1	Marital Status.....	57
4.2	Polygyny.....	58
4.3	Age at First Union	59
4.4	Age at First Sexual Intercourse	59
4.5	Recent Sexual Activity.....	60
5	FERTILITY.....	69
5.1	Current Fertility	69
5.2	Children Ever Born and Living	70
5.3	Birth Intervals.....	71
5.4	Insusceptibility to Pregnancy.....	71
5.5	Age at First Birth.....	72
5.6	Teenage Childbearing.....	73
6	FERTILITY PREFERENCES.....	83
6.1	Desire for Another Child	83
6.2	Ideal Family Size.....	84
6.3	Fertility Planning Status	85
6.4	Wanted Fertility Rates.....	86
7	CONTRACEPTION	93
7.1	Contraceptive Knowledge and Use	94
7.2	Source of Modern Contraceptive Methods.....	96
7.3	Informed Choice.....	96
7.4	Discontinuation of Contraceptives	96
7.5	Demand for Contraception	97
7.6	Contact of Nonusers with Family Planning Providers.....	99
8	INFANT AND CHILD MORTALITY.....	117
8.1	Infant and Child Mortality.....	118
8.2	Biodemographic Risk Factors	119
8.3	Perinatal Mortality.....	120
8.4	High-risk Fertility Behaviour	120
9	MATERNAL HEALTH CARE	127
9.1	Antenatal Care Coverage and Content	128
9.1.1	Skilled Providers.....	128
9.1.2	Timing and Number of ANC Visits.....	129
9.2	Components of ANC Visits.....	129
9.3	Protection against Neonatal Tetanus	129
9.4	Delivery Services.....	130
9.4.1	Institutional Deliveries.....	130
9.4.2	Skilled Assistance during Delivery.....	131
9.4.3	Delivery by Caesarean	132
9.5	Postnatal Care.....	133
9.5.1	Postnatal Health Check for Mothers	133
9.5.2	Postnatal Health Check for Newborns	134
9.5.3	Content of Postnatal Care for Newborns	134
9.5.4	Discharge Timing of Newborns and Mothers.....	135
10	CHILD HEALTH.....	149
10.1	Birth Weight	150
10.2	Vaccination of Children.....	150

10.3	Symptoms of Acute Respiratory Infection	154
10.4	Fever	154
10.5	Diarrhoeal Disease.....	155
10.5.1	Prevalence of Diarrhoea and Treatment-Seeking Behaviour	155
10.5.2	Feeding Practices during an Episode of Diarrhoea	156
10.5.3	Oral Rehydration Therapy and Other Treatments.....	157
10.5.4	Knowledge of ORS Packets and Clinic-Recommended Homemade Fluids	158
10.6	Prevalence and Treatment of Childhood Illness—Summary.....	158
11	NUTRITION OF CHILDREN.....	177
11.1	Nutritional Status of Children.....	177
11.1.1	Measurement of Nutritional Status among Young Children.....	177
11.1.2	Data Collection	178
11.1.3	Levels of Child Malnutrition	179
11.2	Infant and Young Child Feeding Practices	180
11.2.1	Initiation of Breastfeeding	180
11.2.2	Exclusive and Continued Breastfeeding	180
11.2.3	Duration of Breastfeeding	181
11.2.4	Complementary Feeding	182
11.2.5	Minimum Acceptable Diet.....	182
11.3	Anaemia Prevalence in Children	184
11.4	Presence of Iodised Salt in Households.....	185
11.5	Micronutrient Intake, Supplementation, and Deworming among Children.....	186
11.6	Micronutrient Intake among Mothers.....	187
12	HIV/AIDS-RELATED KNOWLEDGE AND BEHAVIOUR.....	201
12.1	Knowledge about Mother-to-Child Transmission of HIV	201
12.2	Multiple Sexual Partners	202
12.3	Paid Sex	203
12.4	Coverage of HIV Testing Services	203
12.4.1	Awareness of HIV Testing Services and Experience with HIV Testing	203
12.4.2	HIV Testing of Pregnant Women	204
12.5	Male Circumcision	204
12.6	Self-reporting of Sexually Transmitted Infections	205
12.7	HIV/AIDS-related Behaviour among Young People	205
12.7.1	First Sex	205
12.7.2	Premarital Sex.....	206
12.7.3	Multiple Sexual Partners.....	206
12.7.4	Coverage of HIV Testing Services	207
13	HIV PREVALENCE.....	223
13.1	Coverage Rates for HIV Testing	224
13.2	HIV Prevalence	225
13.2.1	HIV Prevalence by Age and Sex.....	225
13.2.2	HIV Prevalence by Sexual Risk Behaviour	227
13.2.3	HIV Prevalence among Young People	227
13.2.4	HIV Prevalence by Other Characteristics Related to HIV Risk.....	228
13.2.5	HIV Prevalence among Couples	229
14	ADULT AND PREGNANCY-RELATED MORTALITY	241
14.1	Data	241
14.2	Direct Estimates of Adult Mortality	242
14.3	Trends in Adult Mortality.....	242

14.4	Direct Estimates of Maternal Mortality	243
14.5	Direct Estimates and Trends in Pregnancy-related Mortality	243
15	USE OF HEALTH SERVICES AND PRESCRIBED MEDICATIONS	247
15.1	Health Insurance Coverage	247
15.2	Use of Outpatient Health Care Services	248
15.3	Women's Access to Care	249
	15.3.1 Experience with a Pap Smear	249
	15.3.2 Problems in Accessing Health Care among Women	250
15.4	Prescribed Medications	251
	15.4.1 Self-reported Use of Prescribed Medications	251
	15.4.2 Payment for Prescribed Medications	251
15.5	Prescribed Medications for Chronic Conditions	252
16	ADULT MORBIDITY	263
16.1	Self-assessment of Health	264
16.2	Self-reported Prevalence of Common Chronic Conditions	265
16.3	Experience with Pain	265
	16.3.1 Prevalence of Pain	266
	16.3.2 Tooth and Mouth Pain	267
16.4	Hypertension	267
16.5	Chronic Respiratory Disease	269
16.6	Diabetes	271
16.7	Anaemia	272
17	ADULT NUTRITION	297
17.1	Body Mass Index of Adults and Short Stature of Women	298
17.2	Waist Circumference and Waist-to-Height Ratio	300
17.3	Consumption of Fruit, Vegetables, Sugar-sweetened Beverages, and Fruit Juice	301
17.4	Consumption of Fried Foods, Fast Foods, Salty Snacks, and Processed Meats	302
17.5	Interest in Lowering Salt Consumption	302
18	TOBACCO, ALCOHOL, AND CODEINE USE AMONG ADULTS	313
18.1	Tobacco Use among Adults	313
	18.1.1 Prevalence of Tobacco Smoking	313
	18.1.2 Smokeless Tobacco Use and E-cigarette Use	315
	18.1.3 Tobacco Use during Pregnancy	315
18.2	Alcohol Use among Adults	315
	18.2.1 Alcohol Consumption, Risky Drinking, and Problem Drinking	315
	18.2.2 Alcohol Use during Pregnancy	316
18.3	Use and Misuse of Codeine-containing Medications	316
19	WOMEN'S EMPOWERMENT	329
19.1	In-union Women's and Men's Employment	330
19.2	Control over Women's Earnings	330
19.3	Control over Men's Earnings	331
19.4	Women's and Men's Ownership of Assets	332
19.5	Participation in Decision Making	333
19.6	Attitudes toward Wife Beating	334
19.7	Negotiating Sexual Relations	334
19.8	Child Discipline	335

20	DOMESTIC VIOLENCE.....	355
20.1	Measurement of Intimate Partner Violence.....	356
20.2	Women’s Experience of Physical, Sexual, or Emotional Violence by Any Partner.....	356
20.2.1	Age at first experience of sexual violence by any partner.....	357
20.3	Women’s Experience of Violence by Any Partner in the Past 12 Months.....	358
20.4	Controlling Behaviours by Most Recent Partner.....	358
20.5	Prevalence of Violence by Most Recent Partner.....	359
20.6	Injuries to Women due to Partner Violence.....	361
20.7	Violence Initiated by Women against Partners.....	361
	REFERENCES	373
	APPENDIX A SAMPLE DESIGN	377
A.1	Introduction.....	377
A.2	Sample Frame.....	377
A.3	Sample Design and Implementation.....	378
A.4	Sample Probabilities and Sampling Weights.....	380
	APPENDIX B ESTIMATES OF SAMPLING ERRORS	389
	APPENDIX C DATA QUALITY TABLES	419
	APPENDIX D PERSONS INVOLVED IN THE SOUTH AFRICA DEMOGRAPHIC AND HEALTH SURVEY 2016.....	427
	APPENDIX E QUESTIONNAIRES	431

TABLES AND FIGURES

1	INTRODUCTION AND SURVEY METHODOLOGY	1
	Table 1.1 Results of the household and individual interviews.....	9
	Figure 1.1 Subsampling scheme followed in the SADHS 2016.....	2
	Figure 1.2 HIV testing algorithm	7
2	HOUSING CHARACTERISTICS AND HOUSEHOLD POPULATION	11
	Table 2.1 Household drinking water.....	21
	Table 2.2 Availability of water	22
	Table 2.3 Household sanitation facilities	22
	Table 2.4 Household characteristics	23
	Table 2.5 Household refuse disposal	24
	Table 2.6 Household possessions.....	24
	Table 2.7 Wealth quintiles	25
	Table 2.8 Handwashing	25
	Table 2.9 Household population by age, sex, and residence.....	26
	Table 2.10 Household composition	27
	Table 2.11 Children’s living arrangements and orphanhood	28
	Table 2.12.1 Educational attainment of the female household population	29
	Table 2.12.2 Educational attainment of the male household population	30
	Table 2.13 School attendance ratios	31
	Table 2.14 Disability by domain and age	32
	Table 2.15 Disability among the household population according to background characteristics.....	32
	Table 2.16 Knowledge of where social grant forms may be obtained	33
	Table 2.17 Social grants.....	33
	Table 2.18 Food security: Adults.....	34
	Table 2.19 Food security: Children.....	34
	Figure 2.1 Improved source of drinking water by province	12
	Figure 2.2 Household drinking water by residence.....	12
	Figure 2.3 Household toilet facilities by residence	13
	Figure 2.4 Household wealth by residence.....	14
	Figure 2.5 Population pyramid.....	15
	Figure 2.6 Orphanhood by age.....	16
	Figure 2.7 Age-specific attendance rates.....	18
	Figure 2.8 Receipt of social grants.....	19
3	CHARACTERISTICS OF RESPONDENTS	35
	Table 3.1 Background characteristics of respondents.....	41
	Table 3.2.1 Educational attainment: Women.....	42
	Table 3.2.2 Educational attainment: Men	43
	Table 3.3.1 Literacy: Women	44
	Table 3.3.2 Literacy: Men.....	45
	Table 3.4.1 Exposure to mass media: Women.....	46
	Table 3.4.2 Exposure to mass media: Men	47
	Table 3.5.1 Internet usage: Women	48