

# List of boxes, cases, figures and tables

## PART 2: Child and adolescent health – leave no one behind

### Boxes

Box 1	Advocating for children's right to basic health-care services .....	36
Box 2	Mortality trends and causes of death in older children and adolescents.....	41
Box 3	Closing the gaps in neonatal care .....	48
Box 4	Adolescent health – a second chance in the second decade .....	49
Box 5	Why focus on the first 1,000 days?.....	71
Box 6	Key components of nurturing care .....	72
Box 7	Role of health, education and social sectors in promoting nurturing care .....	73
Box 8	Common characteristics and needs of children with LTHCs .....	95
Box 9	Definition of long term health condition.....	96
Box 10	Attention deficit and hyperactivity and autistic spectrum disorders in childhood.....	97
Box 11	To what extent are the prevalent long term health conditions in South Africa preventable?.....	98
Box 12	The role of the workforce .....	138
Box 13	Children are not little adults.....	161
Box 14	Endocrine-disrupting chemicals (EDCs) exposure in South Africa: An emerging issue of concern .....	168
Box 15	The right-to-comprehend chemical information .....	168
Box 16	UNICEF recommendations for climate resilient water for South Africa .....	173
Box 17	The role of environmental health practitioners in South Africa.....	179
Box 18	Citizen Science – A global movement for public participation.....	179
Box 19	The systems ingredients for a child-centred district health system .....	193
Box 20	Core competency framework for a child- and family-centred health workforce .....	210

### Cases

Case 1	The South African 24-hour movement guidelines for birth to five years.....	68
Case 2	Catalysing community health workers.....	76
Case 3	Postnatal clubs.....	77
Case 4	The Side-by-Side campaign .....	78
Case 5	The Gauteng Early Child Intervention Initiative .....	103
Case 6	The advanced clinical nurse as a coordinator of complex long term care.....	104
Case 7	The essentials of palliative care .....	105
Case 8	SIAS .....	109
Case 9	Investigating cause of death – unintentional or intentional injury? .....	115
Case 10	Walking Bus initiative .....	124
Case 11	Safe Travel to School Programme.....	124
Case 12	Creating Safer Communities through Urban Upgrading.....	125
Case 13	South African teenagers using radio to fight gun crime.....	125
Case 14	Parenting for Lifelong Health .....	126
Case 15	Corporal punishment in the home “unconstitutional” .....	127
Case 16	The Perinatal Mental Health Project.....	140
Case 17	Flourish – Grow Great.....	141
Case 18	Helping Adolescents Thrive .....	142
Case 19	Enforcing Regulation 991 to remove commercial pressures from the infant feeding arena .....	150
Case 20	Challenges in using the Child Support Grant to meet children's nutritional needs.....	152
Case 21	Levelling the obesogenic playing field: The case for the sugary drink tax .....	154
Case 22	The interdependency between children's best interests and right to a healthy environment .....	166
Case 23	Using audits to improve access to sanitation in Gauteng's public schools.....	169
Case 24	Children's climate power – “We are fighting for our lives” .....	174
Case 25	RX Radio child/young reporters experience in contributing to the improvement of health care delivery at the Red Cross War Memorial Children's Hospital .....	187
Case 26	Child-centred infrastructure: Dr Malizo Mpehle memorial district hospital, OR Tambo district, Eastern Cape .....	188
Case 27	Idiosyncrasies in the delivery of the integrated management of childhood illness .....	189

Case 28	Uganda’s national plan for improving child well-being .....	190
Case 29	The Health Extension Programme of Ethiopia .....	191
Case 30	Limpopo Maternal Care: Addressing neonatal mortality through respectful maternal care.....	195
Case 31	Linking children with severe acute malnutrition to community health workers: The Stanger experience .....	196
Case 32	A rights-based, intersectoral intervention to support pregnant learners and teen mothers .....	197
Case 33	Operation Sukuma Sakhe.....	201
Case 34	Malamulele Onward Carer-2-Carer Training Programme .....	205
Case 35	KwaZulu-Natal paediatric outreach programme .....	208

## Figures

Figure 1	Early investment in child and adolescent health drives development across the life course.....	33
Figure 2	Children’s rights to health and health-care services are interdependent and indivisible .....	35
Figure 3	Trends in age-specific mortality rates for children under-five, 1997 – 2012.....	37
Figure 4	Children in sub-Saharan Africa face higher risks of dying before their fifth birthday.....	38
Figure 5	Trends in under-five mortality rates, by province, 1997 – 2012.....	39
Figure 6	Causes of death in children under-five in South Africa, 2000 & 2012 .....	40
Figure 7	Cause specific deaths rates in young children, under-five, 1997 – 2012.....	40
Figure 8	Estimate of the probability of a five-year-old dying before age 15, males and females, 2000 – 2016.....	41
Figure 9	Leading causes of death in older children and adolescents, 2012 .....	42
Figure 10	Tracking improvements in coverage of essential health interventions across the continuum of care .....	46
Figure 11	Immunisation coverage under one year, by local municipality, sub-district, 2017/18 .....	45
Figure 12	Type of facility used when children are ill, by household income quintile, 2018 .....	51
Figure 13	South African Index of Multiple Deprivation for Children, at municipality level, 2011 .....	53
Figure 14	Children’s living conditions, care arrangements and access to services, by income quintile, 2018.....	53
Figure 15	Children living below the upper-bound poverty line, by race, 2003 & 2018 .....	54
Figure 16	Opportunities to promote child and adolescent health.....	55
Figure 17	The Sustainable Development Goals – Driving an integrated approach to development .....	56
Figure 18	The five components of nurturing care .....	56
Figure 19	Survive. Thrive. Transform. Redefining the global strategy for child and adolescent health .....	57
Figure 20	Adolescent country tracker .....	59
Figure 21	Health and development: A complex interplay between biology and environment.....	64
Figure 22	Life Course and Health Development Model.....	65
Figure 23	The intergenerational impact of smoking.....	66
Figure 24	Intervention strategies across the life course .....	67
Figure 25	South African 24-hour movement guidelines: Infancy and early childhood .....	68
Figure 26	The five components of nurturing care .....	73
Figure 27	The five pillars of the Road to Health Book .....	78
Figure 28	Addressing the social determinants of adolescent health .....	87
Figure 29	Ideal Clinic checklist for adolescent and youth-friendly services.....	89
Figure 30	Individual and combined effects of cash, care and safe schools on adolescent development .....	90
Figure 31	DREAMS: Elements of the core package.....	91
Figure 32	The International Classification of Functioning (ICF) Framework .....	99
Figure 33	Care pathways for children with long term health conditions.....	101
Figure 34	Health services for children with long term health conditions .....	102
Figure 35	Summary of the laws and policies that should guide care for children with LTHCs and their families.....	106
Figure 36	Common cross-cutting risks for child injury and violence .....	119
Figure 37	Rondawel of support.....	126
Figure 38	The global burden of mental health conditions across the life course .....	132
Figure 39	Risk factors for mental health conditions across the life course.....	133
Figure 40	The cycle of poverty and mental ill health .....	135
Figure 41	The public health pyramid.....	136
Figure 42	Leaving the pyramid .....	137
Figure 43	Intervening at strategic points across the life course to disrupt the cascade of poor mental health.....	138

Figure 44	Causes of under-five mortality in South Africa, 2015.....	145
Figure 45	Percentage of children under five years who are stunted, by province, 2016.....	147
Figure 46	The food system.....	149
Figure 47	Interventions for optimum nutrition over the life course.....	156
Figure 48	Environmental exposures and risk factors impacting children’s health.....	162
Figure 49	Effects of environmental hazards at different life stages and windows of vulnerability.....	163
Figure 50	WHO Global statistics on the impact of air pollution on children.....	165
Figure 51	Main sources of drinking water in rural and urban areas, 2017.....	170
Figure 52	Main sources of drinking water across the wealth quintiles, 2017.....	171
Figure 53	Interventions to reduce children’s environmental health exposures and risks.....	175
Figure 54	Reducing harmful environmental exposures by achieving the SDGs.....	176
Figure 55	Framework for people-centred health systems strengthening.....	185
Figure 56	The intangible software.....	185
Figure 57	Standards for improving quality of care for children and young adolescents in health facilities.....	186
Figure 58	Teams and networks of care and support for child health at district level.....	192
Figure 59	Child- and family-friendly health workforce: Clinical care, support and supervision.....	209

## Tables

Table 1	Child mortality indicators, rapid mortality surveillance, 2012 – 2017.....	38
Table 2	Indicators of children’s nutritional status, 2005 & 2016.....	43
Table 3	Incidence, prevalence, treatment and prevention of HIV.....	44
Table 4	Obesity, tobacco use and binge drinking, youth 15 – 24, 2003 & 2016.....	49
Table 5	Condom use and early sexual debut, youth 15 – 24, 2008 & 2017.....	49
Table 6	Social and environmental determinants of child health, 2008 & 2018.....	52
Table 7	Status of young children and threats to optimal early childhood development.....	74
Table 8	Support and services for ECD.....	75
Table 9	Adolescent health and well-being data tracker on Sustainable Development Goals (SDGs) for South Africa.....	83
Table 10	An adolescent health lens on national policies and guidelines.....	85
Table 11	A classification of long term health conditions in childhood.....	96
Table 12	Principles for delivering routine long-term care for children.....	100
Table 13	Gaps and recommendations.....	111
Table 14	Causes of child injury deaths, by age, 2009.....	116
Table 15	ChildSafe injury surveillance, 2015 – 2018.....	117
Table 16	Primary settings and main types of injuries at different stages of development.....	118
Table 17	Risk and protective factors for burns.....	120
Table 18	Risk and protective factors for road traffic injuries.....	121
Table 19	Risk and protective factors for violence and abuse.....	122
Table 20	Injury prevention strategies and modifiable factors by ecological context.....	123
Table 21	Key risk and protective factors in childhood and adolescence.....	134
Table 22	Priorities for investment in mental health in South Africa.....	139
Table 23	Indicators of children’s anthropometric and micronutrient status: 1999 – 2016.....	146
Table 24	Policies and programmes that have the potential to improve child nutrition.....	149
Table 25	A framework of policies and actions to promote a healthy diet and address overnutrition.....	157
Table 26	The impact of environmental exposures on children’s health, by disease.....	164
Table 27	Multiple pesticide exposure risks for South Africa’s children.....	167
Table 28	Examples of South African children’s exposure and vulnerability to climate change impacts.....	172
Table 29	Sustainable Development Goals promoting children’s environmental health.....	175
Table 30	Summary of key legislation and policies linked to the four key environmental hazards.....	177
Table 31	Sample indicators for monitoring risk-reduction interventions.....	177
Table 32	Roles, responsibilities and actions required to provide child-centred care at district level.....	194
Table 33	Core competencies for a child- and family-centred workforce.....	210

## Part 3: Children Count – The Numbers

### Demography of South Africa's children

Figure 1a:	Children living with their biological parents, by province, 2018 .....	217
Figure 1b:	Children living in South Africa, by orphanhood status, 2018 .....	218
Figure 1c:	Number and percentage of orphans, by province, 2018.....	218
Figure 1d:	Children living in child-only households, by province, 2002 & 2018.....	219
Table 1a:	Distribution of households, adults and children in South Africa, by province, 2018.....	216

### Income poverty, unemployment and grants

Figure 2a:	Children living in income poverty, by province, 2003 & 2018 .....	221
Figure 2b:	Children living in households without an employed adult, by province, 2003 & 2018.....	222
Figure 2c:	Children receiving the Child Support Grant, 1998 – 2019 .....	224
Figure 2d:	Children receiving the Foster Child Grant, 1998 – 2019 .....	225
Table 2a:	Children receiving the Child Support Grant, by province and age group, 2019.....	223
Table 2b:	Children receiving the Foster Child Grant, by province, 2012 & 2019.....	224
Table 2c:	Children receiving the Care Dependency Grant, by province, 2019 .....	226

### Child health

Figure 3a:	Children living far from their health facility, by province, 2002 & 2018.....	229
Figure 3b:	Annual childbearing rates among young women aged 15 – 24 years, by province, 2009 & 2018 .....	230
Figure 3c:	Childbearing rates among young women aged 15 – 24 years, by age group, 2018.....	231
Figure 3d:	Immunisation coverage of infants young than one year, by province, 2017/18.....	232
Table 3a:	Child mortality indicators, rapid mortality surveillance, 2012 – 2017.....	228

### Child nutrition

Figure 4a:	Children living in households with reported child hunger, by province, 2002 & 2018 .....	234
Figure 4b:	Stunting, wasting and underweight in children under five years, 2016 .....	235
Figure 4c:	Children under five years who are overweight or obese, 2016 .....	236
Figure 4d:	Children over five years who are overweight or obese, 2017.....	237
Figure 4e:	Anaemia in children under five years, 2016.....	238

### Children's access to education

Figure 5a:	School-age children (7 – 17-year-olds) attending an educational institution, by province, 2002 & 2018 .....	240
Figure 5b:	Reported attendance at an educational institution, by age and sex, 2018.....	241
Figure 5c:	Children aged 5 – 6 years attending school or ECD facility, by province, 2002 & 2018 .....	242
Figure 5d:	School-aged children living far from school, by province, 2018.....	243
Figure 5e:	Children aged 10 – 11 years who passed grade 3, by province, 2002 & 2018 .....	244
Figure 5f:	Children aged 16 – 17 years who passed grade 9, by province, 2002 & 2018 .....	245
Figure 5g:	Youth aged 15 – 24 years not in employment, education or training (NEETs), by province, 2002 & 2018 .....	246

### Children's access to housing

Figure 6a:	Children living in urban areas, by province, 2002 & 2018 .....	248
Figure 6b:	Children living in formal, informal and traditional housing, by province, 2018 .....	249
Figure 6c:	Children living in overcrowded households, by province, 2002 & 2018 .....	250

### Children's access to services

Figure 7a:	Children living in households with water on site, by province, 2002 & 2018.....	252
Figure 7b:	Children living in households with basic sanitation, by province, 2002 & 2018.....	253