World Health Organization Africa

Country Health System Fact Sheet 2006
Senegal

Largest urban agglomeration or Capital city : DAKAR
Official language: FRENCH
Surface area (square kms) : 196722
Population density (per square km): 59

DEMOGRAPHIC AND SOCIOECONOMICS STATISTICS [a]			YEARS	SENEGAL	WHO AFRICAN REGION
Population	number	(000)	2005	11 658	738 083
	annual growth rate	(%)	1995–2004	2.2	2.2
	in urban	(%)	2005	51	38
Total fertility rate (per woman)			2004	4.9	5.3
Adolescent fertility proportion		(%)	1997-2002	...	11.7
Adult literacy rate		(%)	2000–2004	39.3	60.1
Net primary school enrolment ratio	Males	(%)	1998–2004	71	70
	Females	(%)		66	63
Gross national income per capita		(PPP Int.$)	2004	1720	2 074
Population living below the poverty line		(% with <$1a day)	1997-2003	…	44

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

HEALTH STATUS STATISTICS MORTALITY [a]		YEARS	SENEGAL	WHO AFRICAN REGION
Life expectancy at birth (years)	Males	2004	54	47
Life expectancy at birth (years)	Females	2004	57	49
Healthy life expectancy (HALE) at birth (years)	Males	2002	47	40
Healthy life expectancy (HALE) at birth (years)	Females	2002	49	42
Probability of dying per 1 000 population between 15 and 60 years (adult mortality rate)	Males	2004	358	519
	Females	2004	288	465
Probability of dying per 1 000 live births under 5 years (under-5 mortality rate)	Both sexes	2004	137	167
Infant mortality rate (per 1 000 live births)	Both sexes	2004	78	100
Neonatal mortality rate (per 1 000 live births)	Both sexes	2000	31	43
Maternal mortality ratio (per 100 000 live births)	Females	2000	690	910
Cause-specific mortality rate (per 100 000 population) (Both sexes)	HIV/AIDS	2003	31	313
	TB among HIV-negative peop	2004	49	53
	TB among HIV-positive peopl	2004	3	28
Age-standardized mortality rate by cause (per 100 000 population) (Both sexes)	Non-communicable diseases	2002	832	800
	Cardio-vascular diseases	2002	426	404
	Cancer	2002	146	144
	Injuries	2002	125	133
Years of life lost by broader causes (%) (Both sexes)	Communicable diseases	2002	76	59
	Non-communicable diseases	2002	13	10
	Injuries	2002	11	8
Causes of death among children under 5 years of age (%) (Both sexes)	Neonatal causes	2000	22.8	26.2
	HIV/AIDS	2000	1.0	6.8
	Diarrhoeal diseases	2000	17.1	16.6
	Measles	2000	8.1	4.3
	Malaria	2000	27.6	17.5
	Pneumonia	2000	20.7	21.1
	Injuries	2000	2.6	1.9
	Other	2000	0.2	5.6

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

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Summary	Year	Males	Females	Both sexes
Population (millions)	2005	5.7	5.9	11.7
Life expectancy (years)	2004	54	57	55
Under-5 mortality (per 1 000 live births)	2004	141	132	137
Adult mortality (per 1 000)	2004	358	288	
Maternal mortality (per 100 000 live births)	2000		690	

Source: World Health Statistics 2006

Under-5 mortality rate (per 1 000 live births)
Senegal, 2004

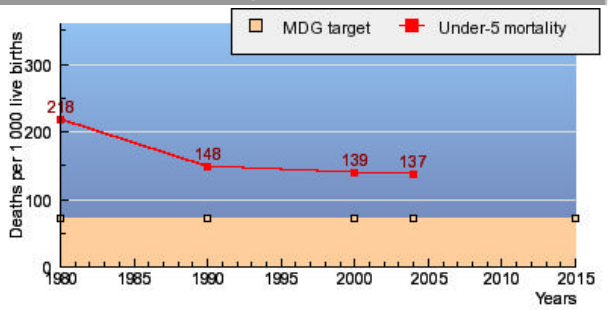
Legend:

- WHO African Region
- Senegal

Source: World Health Statistics 2006

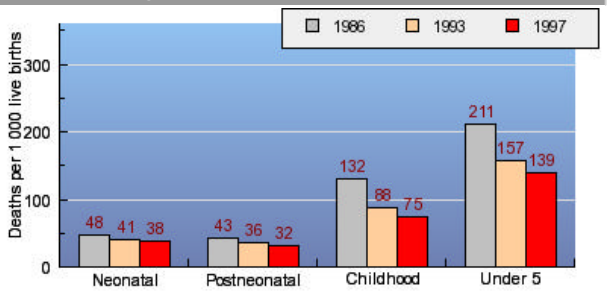
Under-5 mortality

Under-5 mortality: Estimated trend and MDG goal
Senegal, 1980-2004



Source: i) WHO mortality database ii) World Health Statistics 2006

Under-5 mortality: Age-specific mortality rates
Senegal , DHS 1986, DHS 1993, DHS 1997



Note: rate for 5 years preceding the survey
Source: DHS 1986 , DHS 1993 DHS 1997

Under-5 mortality: for highest and lowest quintiles
Senegal, DHS

Wealth/assets quintiles	Lowest	Highest	Ratio
	...	...	...
Sex	Males	Females	Ratio
	150	141	1.1
Urban/Rural	Rural	Urban	Ratio
	171	92	1.9
Mother's education quintiles	None	Higher	Ratio
	160	80	2.0

Note: rate per 1 000 live births for 10-year period preceding the survey
Source: DHS

Under-5 mortality rates by wealth quintile
Senegal, DHS

Note: rate for 10-year period preceding the survey
Source: DHS

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Causes of death in children under-5

Distribution of causes of death among children under 5 years of age Senegal, 2000-2003

Causes	Deaths[b] (%)	Regional average (%)
Total neonatal deaths	100	100
Neonatal causes[a]	23	26
HIV/AIDS	1	7
Diarrhoeal diseases	17	17
Measles	8	4
Malaria	28	17
Pneumonia	21	21
Injuries	3	2
Others	0	6

a. Includes diarrhoea during neonatal period
b. Sum of individual proportions may not add up to 100% due to rounding.

Annual estimated proportions of death by cause for neonates Senegal, 2000

Causes	Deaths[c] (%)	Regional average[c] (%)
Total neonatal deaths	100	100
Neonatal tetanus	6	9
Severe infection[a]	32	27
Birth asphyxia	23	24
Diarrhoeal diseases	2	3
Congenital anomalies	7	6
Preterm birth[b]	24	23
Others	6	7

a. Includes deaths from pneumonia, meningitis, sepsis/septicaemia and other infections during the neonatal period.
b. Includes only deaths directly attributed to prematurity and to specific complications of preterm birth such as surfactant deficiency, but not all deaths in preterm infants.
c. Sum of individual proportions may not equal 100% due to rounding.

Causes of Death

Top ten causes of death, all ages Senegal, 2002

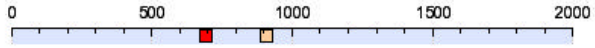
Causes	Deaths (000)	Deaths (%)	Years of Life Lost (%)
All causes	102	100	100
Lower respiratory infections	16	16	20
Malaria	13	13	16
Perinatal conditions	8	9	11
Diarrhoeal diseases	7	7	9
Tuberculosis	4	5	4
Cerebrovascular disease	4	4	2
Ischaemic heart disease	3	4	1
HIV/AIDS	3	3	3
Road traffic accidents	3	3	3
Whooping cough	1	2	2

Source: Death and DALY estimates by cause, 2002
http://www.who.int/entity/healthinfo/statistics/bodgbddeathdalyestimates.xls

Life expectancy at birth among males (years) Senegal, 2004

Life expectancy at birth among females (years) Senegal, 2004

Maternal mortality ratio (per 100 000 live births) Senegal, 2000



Legend:

WHO African Region
Senegal

Source: World Health Statistics 2006

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HEALTH STATUS STATISTICS MORBIDITY [a]		YEARS	SENEGAL	WHO AFRICAN REGION
HIV prevalence amond adults (15 - 49) (%)	Both sexes	2003	0.8	7.1
TB prevalence (per 100 000 population)	Both sexes	2004	451	518
TB incidence (per 100 000 population)	Both sexes	2004	245	356
Number of comfirmed polio cases	Both sexes	2005	0	854

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

BEHAVIOUR AND ENVIRONMENTAL RISK FACTORS [a]		YEARS	SENEGAL	WHO AFRICAN REGION
Non-communicable diseases - Infobase for the country See ---> http://www.afro.who.int/dnc/infobase/Senegal.pdf				
Chilfren under-5 stunted for age (Both sexes) (%)		2000	25.4	…
Children under-5 underweight for age (Both sexes) (%)		2000	22.7	…
Children under-5 overweight for age (Both sexes) (%)		2000	2.2	…
Newborns with low birth weight (Both sexes) (%)		2000-2002	18	14
Adults (≥15) who are obese (%)	Males	…	...	…
	Females	…	...	…
Access to improved water sources (%)	Urban	2002	90	84
	Rural	2002	54	45
Access to improved sanitation (%)	Urban	2002	70	58
	Rural	2002	34	28
Population using solid fuels (%)	Urban	2003	24	...
	Rural	2003	80	...
Prevalence of current tobacco use (%) Adolescents (13 - 15)	Both sexes	2002	16.6	...
Prevalence of current tobacco use (%) Adults (≥15)	Males	2003	24.1	...
	Females	2003	1.9	...
Condom use by young people (15 - 24) at higher risk sex (%)	Males	…	...	...
	Females	…	...	...

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

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HEALTH SERVICES COVERAGE STATISTICS [a]			YEARS	SENEGAL	WHO AFRICAN REGION
Immunization coverage among 1-year-olds	Measles	(%)	2004	57	66
	DTP3	(%)	2004	87	66
	HepB3	(%)	2004	54	35
Antenatal care coverage	At least 1 visit	(%)	1999	82	…
	At least 4 visits	(%)	1999	64	…
Births attended by skilled health personnel		(%)	2000	58	…
Contraceptive prevalence rate		(%)	1999	10.5	…
Children under-5 sleeping under insecticide-treated nets		(%)	2000	1.7	…
Antiretroviral therapy coverage		(%)	Dec 2005	47	17
TB detection rate under DOTS		(%)	2004	52	48
TB detection treatment success DOTS		(%)	2003 cohort	70	72
Children under-5 with ARI symptoms taken to facility		(%)	…	...	…
Children under-5 with diarrhoea receiving ORT		(%)	1999	48.3	…
Children under-5 with fever who received treatment with any antimalarial		(%)	2000	36.2	…
Children 6-59 months who received vitamin A supplementation		(%)	2002	82.7	…
Births by Caesarean section		(%)	1997	2	…

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

HEALTH SYSTEMS STATISTICS [a]		YEARS	SENEGAL
Physicians	Number	2004	594
	Density	2004	0.06
Nurses	Number	2004	3 287
	Density per 1000	2004	0.32
Midwives	Number	…	...
	Density per 1000	…	...
Dentists	Number	2004	97
	Density per 1000	2004	0.01
Pharmacists	Number	2004	85
	Density per 1000	2004	0.01
Public and environmental health workers	Number	2004	705
	Density per 1000	2004	0.07
Community Health workers	Number	…	...
	Density per 1000	…	...
Lab technicians	Number	2004	66
	Density per 1000	2004	0.01
Other health workers	Number	2004	704
	Density per 1000	2004	0.07
Health management and support workers	Number	2004	564
	Density per 1000	2004	0.05
Total expenditure on health as % of gross domestic product		2003	5.1
General government expenditure on health as % of total expenditure on health		2003	41.8
Private expenditure on health as % of total expenditure on health		2003	58.2
General government expenditure on health as % of total government expenditure		2003	9.3
External ressources for health as % of total expenditure on health		2003	15.4
Social security expenditure on health as % of general government expenditure on health		2003	15.8
Out-of-pocket expenditure as % of private expenditure on health		2003	95.3
Private prepaid plans as % of private expenditure on health		2003	3.4
Per capita total expenditure on health at average exchange rate (US$)		2003	29
Per capita total expenditure on health at international dollar rate		2003	58
Per capita government expenditure on health at average exchange rate (US$)		2003	12
Per capita government expenditure on health at international dollar rate		2003	24
Coverage of vital registration of deaths(%)		2002	<25
Hospital beds (per 10 000)		…	...

… Data not available or not applicable.

[a] *WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*

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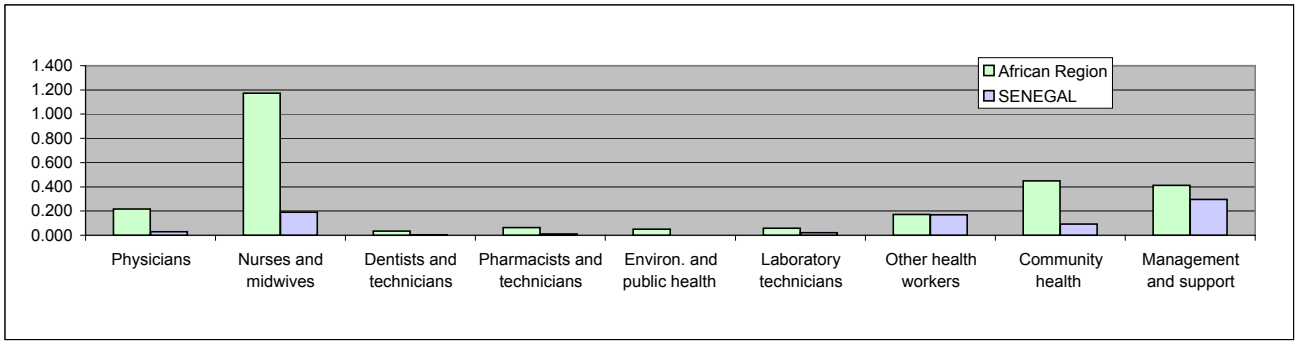
HUMAN RESOURCES FOR HEALTH
Country Fact Sheet Senegal

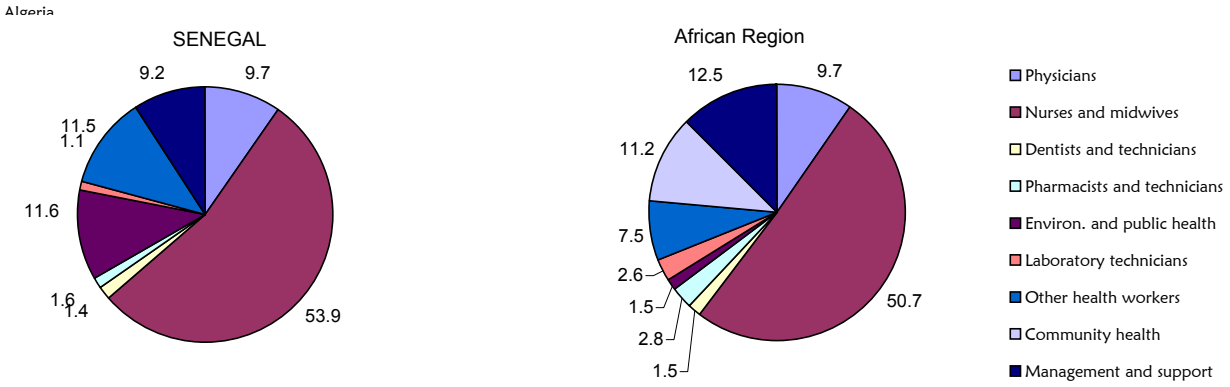
Total numbers and densities of the health workforce in SENEGAL (2002)

	Total number SENEGAL	Density per 1000 SENEGAL	Density per 1000 AFRO
Physicians	594	0.057	0.217
Nurses and midwives	3287	0.318	1.172
Dentists and technicians	97	0.009	0.035
Pharmacists and technicians	85	0.008	0.063
Environmental and public health workers	705	0.068	0.049
Laboratory technicians	66	0.006	0.057
Other health workers	704	0.068	0.173
Community health workers	n.a.	n.a.	0.449
Health management and support	564	0.055	0.411
Sum total	6102	0.590	2.626

Densities of health workers in SENEGAL and in the African Region per 1000 population



Distribution of health workforce by cadre



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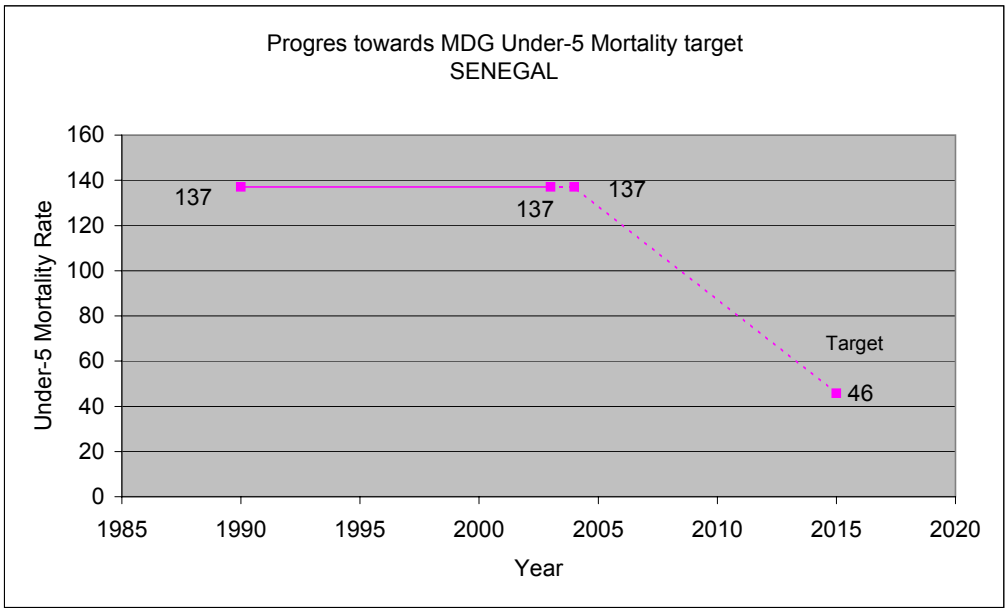
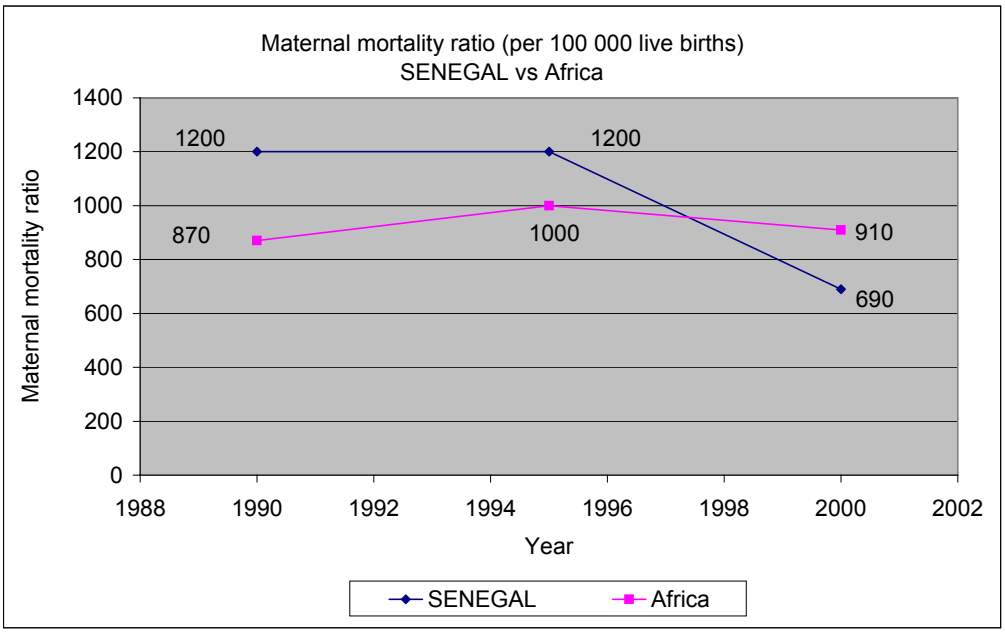
MILLENIUM DEVELOPMENT GOALS[a]	YEARS	SENEGAL	WHO AFRICAN REGION
GOAL 1: ERADICATE EXTREME POVERTY AND HUNGER			
4. Prevalence of underweight children under five years of age	2000	22.7	26
5. Proportion of population below minimum level of dietary energy consumption	…	…	…
GOAL 4: REDUCE CHILD MORTALITY			
13. Under-five mortality rate (per 1000 live births, %)	1990	…	...
	2003	137	171
	2004	137	167
14. Infant mortality rate (per 1000 live births, %)	1990	74	...
	2003	78	...
	2004	78	100
15. Proportion of one-year-old children immunized against measles, %	2003	60	63
	2004	57	66
GOAL 5: IMPROVE MATERNAL HEALTH			
16.Maternal mortality ratio (per 100 000 live births)	1990	1200	…
	1995	1200	…
	2000	690	990
	2003	…	…
	2004	…	…
17. Proportion of births attended by skilled health personnel	2000	58	43
GOAL 6: COMBAT HIV/AIDS, MALARIA AND OTHER DISEASES			
18. HIV prevalence among pregnant women aged 15-24	…	…	…
- HIV prevalence among adults (15-49) %, both sexes	2003	0.8	7.1
19. Condom use rate of the contraceptive prevalence rate	…	…	…
- Contraceptive prevalence rate	2000	10.5	…
20. Number of children orphaned by HIV/AIDS	…	…	…
21. Prevalence rate associated with malaria	…	…	…
- Death rates associated with malaria (per 100 000)	2000	71	…
22. Proportion of population in malaria-risk areas using effective malaria prevention and trreatment measures	…	…	…
23. Prevalence rate associated with tuberculosis (per 100 000)	1990	401	317
	2000	416	…
	2004	451	518
- Death rates associated with tuberculosis	1990	44	41
	2000	46	…
	2004	52	81
24. Proportion of tuberculosis cases detected under DOTS	2003	59	50
	2004	52	48
- Proportion of tuberculosis cases cured under DOTS	2002	66	73
	2003	70	72
GOAL 7: ENSURE ENVIRONMENTAL SUSTAINABILITY			
29. Proportion of population using solid fuels	2002	41	76
30. Proportion of population with sustainable access to improved water source, urban	2002	90	84
- Proportion of population with sustainable access to improved water source, rural	2002	54	45
31. Proportion of urban population with access to improved sanitation	2002	70	58
- Proportion of rural population with access to improved sanitation	2002	34	28
GOAL 8: DEVELOP A GLOBAL PARTNERSHIP FOR DEVELOPMENT			
46. Proportion of population with access to affordable essential drugs on a sustainable basis	…	…	…

… Data not available or not applicable.

[a] *THE WORLD HEALTH REPORT 2004 UPDATED WITH THE WORLD HEALTH STATISTICS 2006 http://www.who.int/whosis/en/*


Progres towards MDG Under-5 Mortality target
SENEGAL
Under-5 Mortality Rate
160
140
120
100
80
60
40
20
0
137
137
137
Target
46
1985
1990
1995
2000
2005
2010
2015
2020
Year


Maternal mortality ratio (per 100 000 live births)
SENEGAL vs Africa
Maternal mortality ratio
1400
1200
1000
800
600
400
200
0
1200
1200
870
1000
910
690
1988
1990
1992
1994
1996
1998
2000
2002
Year
SENEGAL
Africa