

COUNTRY HEALTH INFORMATION PROFILE

**PAPUA NEW
GUINEA**

WESTERN PACIFIC REGION HEALTH DATABANK, 2011 Revision

INDICATORS		DATA			Year	Source			
Demographics		Total	Male	Female					
1	Area (1 000 km2)	462.84			2010	1			
2	Estimated population ('000s)	6744.96	3478.10	3266.85	2010 est	2			
3	Annual population growth rate (%)	2.70	...	...	2009	3	
4	Percentage of population								
	- 0–4 years	13.91	13.92	13.90	2010 est	2			
	- 5–14 years	24.30	24.47	24.15	2010 est	2			
	- 65 years and above	2.48	2.43	2.54	2010 est	2			
5	Urban population (%)	12.50	...	...	2010 est	4	
6	Crude birth rate (per 1000 population)	30.90	...	...	2010p	1	
7	Crude death rate (per 1000 population)	9.60	...	...	2010p	1	
8	Rate of natural increase of population (% per annum)	2.13	...	...	2010p	1	
9	Life expectancy (years)								
	- at birth	63.00	62.00	65.00	2009 est	5			
	- Healthy Life Expectancy (HALE) at age 60	...	...	...		
10	Total fertility rate (women aged 15–49 years)	4.00			2009	5			
Socioeconomic indicators									
11	Adult literacy rate (%)	60.00	...	...	2000-08	5	
12	Per capita GDP at current market prices (US\$)	1172.32 ^a			2009p	6			
13	Rate of growth of per capita GDP (%)	...							
14	Human development index	0.43			2010	7			
Environmental indicators		Total	Urban	Rural					
15	Health care waste generation (metric tons per year)	...	...	...		
Communicable and noncommunicable diseases		Number of new cases			Number of deaths				
16	Selected communicable diseases	Total	Male	Female	Total	Male	Female		
	Hepatitis viral								
	- Type A	16	8	8	0	0	0	2008	3
	- Type B	37	19	18	4	1	3	2008	3
	- Type C	2	1	1	1	1	0	2008	3
	- Type E		
	- Unspecified		
	Cholera	14 000	2009	23
	Dengue/DHF	28 ^b	0	0	0	2007-08	8
	Encephalitis		
	Gonorrhoea		
	Leprosy	281	186	95	2010	9
	Malaria	93 705	616	2010	9
	Plague		
	Syphilis		
	Typhoid fever	2666	1264	1402	105	68	37	2008	10
17	Acute respiratory infections		
	- Among children under 5 years	21 053	551	2010	11

INDICATORS		DATA					Year	Source	
Communicable and noncommunicable diseases		Number of new cases			Number of deaths				
		Total	Male	Female	Total	Male	Female		
18	Diarrhoeal diseases	...	...	...	...	...	...
	- Among children under 5 years	6282	...	...	173	...	...	2010	11
19	Tuberculosis								
	- All forms	12 306	...	...	1800 ^f	...	...	2009	9
	- New pulmonary tuberculosis (smear-positive)	2238	...	...	...	...	...	2009	9
20	Cancers								
	All cancers (malignant neoplasms only)	...	...	...	...	...	...
	- Breast	206	8	198	31	0	31	2008	10
	- Colon and rectum	69	44	25	8	6	2	2008	10
	- Cervix			621			35	2008	10
	- Leukaemia	71	43	28	30	18	12	2008	10
	- Lip, oral cavity and pharynx	346	195	151	0	0	0	2008	10
	- Liver	165	111	54	59	37	22	2008	10
	- Oesophagus	51	31	20	13	9	4	2008	10
	- Stomach	18	14	4	9	6	3	2008	10
	- Trachea, bronchus, and lung	23	15	8	11	5	6	2008	10
21	Circulatory								
	All circulatory system diseases	...	...	...	...	...	...
	- Acute myocardial infarction	80	66	14	13	7	6	2008	10
	- Cerebrovascular diseases	16	10	6	...	...	333	2008	10
	- Hypertension	524	256	268	39	25	14	2008	10
	- Ischaemic heart disease	20	17	3	...	...	333	2008	10
	- Rheumatic fever and rheumatic heart diseases	88	40	48	8	4	4	2008	10
22	Diabetes mellitus	397 ^c	229	165	49	21	28	2008	10
23	Mental disorders	499	323	176	9	7	2	2008	10
24	Injuries								
	All types	...	...	...	...	...	...
	- Drowning	...	...	...	...	...	...
	- Homicide and violence	...	...	...	...	...	...
	- Occupational injuries	...	...	...	...	...	...
	- Road traffic accidents	59 000	...	...	...	...	...	2008	3
	- Suicide	...	...	...	...	...	...
Leading causes of mortality and morbidity		Number of cases			Rate per 100 000 population				
25	Leading causes of morbidity (inpatient care)	Total	Male	Female	Total	Male	Female		
	1. Tuberculosis	73 000	...	...	1130.03 ^a	...	...	2008	8
	2. Normal deliveries (incl. BBA)	64 918		64 918	1004.92 ^a		2075.78 ^a	2008	8
	3. Pneumonia	23 291	12 958	10 333	360.54 ^a	388.49 ^a	330.40 ^a	2008	8
	4. Malaria	20 071	10 177	9894	310.70 ^a	305.12 ^a	316.36 ^a	2008	8
	5. Perinatal conditions	11 454	5986	5468	177.31 ^a	179.47 ^a	174.84 ^a	2008	8
	6. Direct obstetric causes	9273		9273	143.54489 ^a		296.5082 ^a	2008	8
	7. Diarrhoea	7803	4311	3492	120.78947 ^a	129.2484 ^a	111.6582 ^a	2008	8
	8. Diseases of the digestive system	7190	3449	3741	111.30031 ^a	103.4047 ^a	119.6201 ^a	2008	8
	9. Open wounds and injury to blood vessels	5993	3888	2105	92.770898 ^a	116.5664 ^a	67.30829 ^a	2008	8
	10. Anaemia	3760	1533	2227	58.204334 ^a	45.96097 ^a	71.20929 ^a	2008	8

INDICATORS		DATA						Year	Source
		Number of deaths			Rate per 100 000 population				
		Total	Male	Female	Total	Male	Female		
26	Leading causes of mortality								
	1. Perinatal conditions	824	460	364	12.76 ^a	13.79 ^a	11.64 ^a	2008	9
	2. Pneumonia	708	390	318	10.96 ^a	11.69 ^a	10.17 ^a	2008	9
	3. Malaria	582	303	279	9.01 ^a	9.08 ^a	8.92 ^a	2008	9
	4. Tuberculosis	534	288	246	8.27 ^a	8.63 ^a	7.87 ^a	2008	9
	5. Meningitis	379	200	179	5.87 ^a	6.00 ^a	5.72 ^a	2008	9
	6. Heart diseases	316	171	145	4.89 ^a	5.13 ^a	4.64 ^a	2008	9
	7. Diarrhoea	278	165	113	4.30 ^a	4.95 ^a	3.61 ^a	2008	9
	8. Diseases of the digestive system	266	172	94	4.12 ^a	5.16 ^a	3.01 ^a	2008	9
	9. Diseases of the digestive system	266	172	94	4.04 ^a	3.51 ^a	4.70 ^a	2008	9
	10.	...	...	...	...	...	...
Maternal, child and infant diseases		Total		Male	Female				
27	Percentage of women in the reproductive age group using modern contraceptive methods				35.70		2008	3	
28	Percentage of pregnant women immunized with tetanus toxoid (TT2)				50.00		2010	9	
29	Percentage of pregnant women with anaemia				40.30		2005	12	
30	Neonatal mortality rate (per 1000 live births)	29.10 ^a		...	...		2006	13	
31	Percentage of newborn infants weighing less than 2500 g at birth	9.40		...	...		2009	3	
32	Immunization coverage for infants (%)								
	- BCG	80.00		...	...		2010	9	
	- DTP3	70.00		...	...		2010	9	
	- Hepatitis B III	89.00		...	...		2010	9	
	- MCV2	...		...	...
	- POL3	70.00		...	...		2010	9	
		Number of cases			Number of deaths				
33	Maternal causes	Total	Male	Female	Total	Male	Female		
	- Abortion			3970			28	2008	10
	- Eclampsia			26			1	2008	10
	- Haemorrhage			381			10	2008	10
	- Obstructed labour			495			1	2008	10
	- Sepsis			657			20	2008	10
34	Selected diseases under the WHO-EPI								
	- Congenital rubella syndrome	...	...	...	...	...	...
	- Diphtheria	0	0	0	...	...	...	2010	9
	- Measles	0	0	0	...	...	...	2010	9
	- Mumps	...	...	...	...	...	...
	- Neonatal tetanus	32	...	...	...	...	...	2010	9
	- Pertussis (whooping cough)	4949	...	...	...	...	...	2010	9
	- Poliomyelitis	0	0	0				2010	9
	- Rubella	5	...	...	...	...	...	2010	9
	- Total Tetanus	32	...	...	...	...	...	2010	9
Health facilities									
35	Facilities with HIV testing and counseling services	256						2007	12

INDICATORS		DATA						Year	Source	
Health facilities		Number			Number of beds					
36	Health infrastructure									
	Public health facilities - General hospitals		19		...		2003	13		
	- Specialized hospitals		4		...		2003	13		
	- District/first-level referral hospitals		201		...		2003	13		
	- Primary health care centres		2875		...		2003	13		
	Private health facilities - Hospitals		3		...		2003	13		
	- Outpatient clinics		...		...		
Health care financing										
37	Total health expenditure									
	- amount (in million US\$)					245.29 ^a	2009p	6		
	- total expenditure on health as % of GDP					3.10	2009p	6		
	- per capita total expenditure on health (in US\$)					36.44 ^a	2009p	6		
	Government expenditure on health									
	- amount (in million US\$)					193.84 ^a	2009p	6		
	- general government expenditure on health as % of total expenditure on health					79.00	2009p	6		
	- general government expenditure on health as % of total general government expenditure					8.00	2009p	6		
	External source of government health expenditure									
	- external resources for health as % of general government expenditure on health					25.23 ^a	2009p	6		
	Private health expenditure									
	- private expenditure on health as % of total expenditure on health					21.00	2009p	6		
	- out-of-pocket expenditure on health as % of total expenditure on health					8.57 ^a	2009p	6		
	Exchange rate in US\$ of local currency is: 1 US\$ =					2.76	2009p	6		
38	Health insurance coverage as % of total population					...				
INDICATORS		DATA						Year	Source	
39	Human resources for health	Total	Male	Female	Urban	Rural	Public	Private		
	Physicians	- Number	333	2008	16
		- Ratio per 1000 population	0.05	2008	16
	Dentists	- Number	46	2008	16
		- Ratio per 1000 population	0.01	2008	16
	Pharmacists	- Number		
		- Ratio per 1000 population		
	Nurses	- Number	2 844	2008	16
		- Ratio per 1000 population	0.44	2008	16
	Midwives	- Number	315	2008	16
		- Ratio per 1000 population	0.05	2008	16
	Paramedical staff	- Number	2262	2008	16
		- Ratio per 1000 population	0.35	2008	16
	Community health workers	- Number	3883	2008	16
		- Ratio per 1000 population	0.6	2008	16
40	Annual number of graduates									
	Physicians	36	2008	17
	Dentists	5	2008	17
	Pharmacists	20	2008	17

INDICATORS			DATA						Year	Source
		Total	Male	Female	Urban	Rural	Public	Private		
40	Annual number of graduates	Nurses		
		Midwives	64 ^d	2008	17
		Paramedical staff	73	2008	17
		Community health workers		
41	Workforce losses/ Attrition	Physicians		
		Dentists		
		Pharmacists		
		Nurses		
		Midwives		
		Paramedical staff		
		Community health workers		
INDICATORS			DATA			Year	Source			
	Health-related Millennium Development Goals (MDGs)	Total	Male	Female						
42	Prevalence of underweight children under five years of age	28.00	...	...	2007	11		
43	Infant mortality rate (per 1000 live births)	56.70	...	...	2006	13		
44	Under-five mortality rate (per 1000 live births)	74.70	...	...	2006	13		
45	Proportion of 1 year-old children immunised against measles	59.00	...	...	2010	9		
46	Maternal mortality ratio (per 100 000 live births)	733.00			2006	13				
47	Proportion of births attended by skilled health personnel	...								
	- Percentage of deliveries at home by skilled health personnel (as % of total deliveries)	...								
	- Percentage of deliveries in health facilities (as % of total deliveries)	40.00			2009	3				
48	Contraceptive prevalence rate	32.00 ^e	...	...	2006	13		
49	Adolescent birth rate	12.90			2006	13				
50	Antenatal care coverage - At least one visit	60.00			2008	11				
	- At least four visits	28.76			2008	11				
51	Unmet need for family planning	...	...	29.80	2006	13		
52	HIV prevalence among population aged 15-24 years	0.80	...	...	2010	18		
53	Estimated HIV prevalence in adults	0.90 ^e	...	...	2009	19		
54	Percentage of people with advanced HIV infection receiving ART	0.64	...	...	2010	20		
55	Malaria incidence rate per 100 000 population	1396.91	...	...	2009	9		
56	Malaria death rate per 100 000 population	9.18	...	...	2009	9		
57	Proportion of population in malaria-risk areas using effective malaria prevention measures	32.50	...	...	2008-09	21		
58	Proportion of population in malaria-risk areas using effective malaria treatment measures	38.80	...	...	2008-09	21		
59	Tuberculosis prevalence rate per 100 000 population	337.00	...	...	2009	9		
60	Tuberculosis death rate per 100 000 population	26.00	...	...	2009	9		
61	Proportion of tuberculosis cases detected under directly observed treatment short-course (DOTS)	73.00	...	...	2009	9		
62	Proportion of tuberculosis cases cured under directly observed treatment short-course (DOTS)	64.00	...	...	2008	9		
		Total	Urban	Rural						
63	Proportion of population using an improved drinking water source	40.00	87.00	33.00	2008	22				
64	Proportion of population using an improved sanitation facility	45.00	71.00	41.00	2008	22				
65	Proportion of population with access to affordable essential drugs on a sustainable basis	50.00	...	...	2008	3		

Notes:	
...	Data not available
est	Estimate
p	Provisional
NR	Not relevant
a	Computed by Information, Evidence and Research Unit of the WHO Regional Office for the Western Pacific
b	Laboratory confirmed
c	Totals may not tally due to some reported cases with no gender breakdown
d	Due to non-accreditation of the programs, no graduates are eligible for registration unless they undertake further training and competency assessment
e	Revised data
f	Estimated number of deaths
Sources:	
1	2011 Population and Demographic indicators. Secretariat of the Pacific Community, Statistics and Demography. Accessed on 6 June 2011 from [http://www.spc.int/sdp/]
2	Population 2000-2015 by 1 and 5 year age groups, May 2011. Secretariat of the Pacific Community (SPC) - Statistics for Development Programme. [http://www.spc.int/sdp/index.php?option=com_docman&task=doc_download&gid=158&Itemid=&lang=en]
3	2001-2009 Health Sector Review, National Department of Health, May 2009
4	Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2008 Revision and World Urbanization Prospects: The 2009 Revision, http://esa.un.org/wup2009/unup/ , Monday, June 06, 2011; 9:20:08 PM.
5	World Health Statistics 2011. Geneva, World Health Organization, 2011.
6	National health accounts: country information. Geneva, World Health Organization. Accessed in March 2010 from [http://www.who.int/nha/country/en/index.html]
7	Human Development Report 2010: The Real Wealth of Nations: Pathways to Human Development. United National Development Programme. [http://hdr.undp.org/en/reports/global/hdr2010/chapters/en/]
8	Papua New Guinea Institute of Medical Research Reporting Form, 2007-08
9	WHO Regional Office for the Western Pacific, data received from the technical units
10	Discharge reports 2008, Monitoring and research branch
11	Information system, monitoring and research branch. Papua New Guinea National Department of Health (NHIS)
12	Papua New Guinea National Nutrition Survey, PNG National Department of Health.
13	Demographic Health Survey 2006, Papua New Guinea National Statistical Office - Preliminary results.
14	Technical Unit National Department of Health, Disease Control Branch.
15	National Inventory of Health Facilities 2003.
16	Human Resources for Health Forum Data, Port Moresby, May 2008.
17	Human Resources Branch, National Department of Health, Papua New Guinea.
18	PNG UNGASS report 2010.
19	PNG Estimation and Projection of HIV report, June 2010
20	PNG Universal Access Report 2010
21	Papua New Guinea Institute of Medical Research, Sentinel Site Report 2008/2009 Papua New Guinea Institute of Medical Research, PNG/The Global Fund Round 3 Malaria Control Programme Evaluation 2008/2009
22	Progress on Sanitation and Drinking Water: 2010 Update. World Health Organization and United Nations Children's Fund Joint Monitoring Programme for Water Supply and Sanitation (JMP). UNICEF, New York and WHO, Geneva, 2010. [http://www.wssinfo.org/en/welcome.html]
23	Information furnished by the WR Papua New Guinea Office dated May 2011.