

Government of the People's Republic of Bangladesh  
Ministry of Health and Family Welfare  
Human Resources Development Unit  
**HRD Data Sheet-2011**

**A: Quantitative figure on Human Resources for Health**

Sl.	Number of Workforce	Total
1.	Total Registered Graduate Doctors <sup>1</sup>	53063
2.	Estimated total doctors available in the country <sup>1</sup>	43,537
3.	% of Doctors working under MOHFW <sup>2</sup> % doctors working under other Ministries (Home, Police, Railway, Civil Aviation, LGRD, Social Welfare and labour).	35% 3%
4.	% of doctors working under the private sector <sup>2</sup>	58%
5.	Medical Officers (MCHFP) under DGFP <sup>3</sup>	540
6.	Registered diploma nurses <sup>4</sup>	26899
7.	Estimated -Nurses currently available <sup>4</sup>	15,023
8.	Dental Surgeons <sup>3</sup>	4165
9.	Family Planning Officer (TFPO) <sup>3</sup>	546
10.	Assistant Family Planning Officer (ATFPO) <sup>3</sup>	1440
11.	Registered medical technologists produced up to 2002 <sup>5</sup>	
	(a) Sanitary Inspector	1041
	(b) Dentists	1886
	(c) Laboratories Technicians	2220
	(d) Pharmacists	7622
	(e) Radiographers	1456
	(f) Physical Therapists	581
12.	Medical Assistants <sup>5</sup>	7365
13.	Health Assistants (HA) (Sanctioned) <sup>6</sup>	21016
14.	Assistant Health Inspector (Sanctioned) <sup>6</sup>	4202
15.	Family Welfare visitors <sup>7</sup> (Sanctioned) <sup>6</sup>	5705
16.	Health Inspectors <sup>6</sup>	1401
17.	Family Planning Inspector (Sanctioned) <sup>6</sup>	4500
18.	Family Welfare Assistants (Sanctioned) <sup>6</sup>	23500

**B: Various HRD – Institutions under MOH&FW**

1.	Medical University	1
2.	Public Medical Colleges	Total Seats : 5712
	Private Medical Colleges	18
		45
3.	Public Dental Colleges/Units	Total Seats : 980
	Private Dental Colleges	3
		12
4.	public Nursing Institutions/colleges (one in the Arm forces)	51
	private Nursing Schools/colleges	33
5.	Institutes of Health Technology (including Public 6 )	Total Seats : 9136
6.	National Institute of Population Research and Training –NIPORT ( Including 20 -RTCs, 12 –FWVTIs)	1
7.	Medical Assistant Training School (MATS) (Including Public 7)	Total Seats : 2505
8.	National Institute Preventive Health and Social Medicine-NIPSOM	1
9.	Institute of Cardiovascular Diseases	1
10.	Institute of Chest Disease Control	1
11.	Institute of Public Health	1
12.	Institute of Health Economics, Dhaka University	1
13.	Department Population Sciences, Dhaka University	1
14.	Institute of Nutrition and food science, Dhaka University	1
15.	National Institute of Ophthalmology	1
16.	Postgraduate institutes	33
17.	Institute of Public Health Nutrition	1

**C. Basic Data on Nursing Education**

1.	Nursing Institutes (Public + Private)	84
2.	Duration of Diploma Courses	4 years
3.	Annual enrolment of nurses in the Nursing Institutes –both Public &Private	3670
4.	Annual production/turnout of the Nursing Institutes –both public &private	2700
5.	Annual Post Basic B.Sc. nursing + B.Sc. Public Health enrolment	950
6.	Degree holders in B. Sc. nursing	1075
7.	Registered nurses	25498
8.	Teacher-student ratio	1: 27
9.	*Teacher-student ratio in the Nursing Institute attached to DMCH	1: 89
10.	Teacher-student ratio as per international standard	1: 8
11.	%of Male - in the nursing Institutes (Basic) to the Medical College Hospitals	10.0

Table-1: 12 years Budget allocation (Revenue & Development) of MOHFW.

(Core tk.)

1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
2363	2627	2649	2797	3445	3175	4112	4957	5261	6196	6833	8149

Table -2: Recent Trend of Selected health indicators.

Indicators	Issue	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Crude Birth rate/1000	National	19.2	19.0	18.9	20.1	20.9	20.8	20.7	20.6	20.9	20.5
	Urban	13.8	13.7	13.6	16.6	17.9	17.8	17.8	17.5	17.4	17.2
	Rural	20.9	20.8	20.7	21.0	21.7	21.6	21.7	20.7	22.1	22.4
Crude Death rate/1000	National	5.1	4.9	4.8	5.1	5.9	5.8	5.8	5.6	6.3	6.0
	Urban	3.5	3.5	3.4	3.8	4.7	4.4	4.9	4.4	5.2	5.1
	Rural	5.4	5.3	5.2	5.4	6.2	6.1	6.1	6.0	6.6	6.5
Average Marriage Age	Male	27.7	27.7	25.8	25.6	25.2	25.3	23.0	23.4	23.6	23.8
	Female	20.3	20.4	20.4	20.6	20.4	19.0	17.9	18.1	18.4	19.1
Population per Physician		4439	4218	3811	3590	3532	3137	3261	3110	2991	2860
Average life expectancy (Years)	National	62.7	63.6	64.2	64.9	64.9	65.1	65.2	65.4	66.6	66.8
	Urban	64.2	65.3	66.4	67.2	67.6	67.8	67.9	68.0	68.1	68.3
	Rural	61.1	62.1	63.2	64.4	64.3	64.3	64.5	64.6	66.0	66.2
Infant mortality rate: Neonate, under one year/1000	National	59	58	56	53	53	52	50	45	43	41.0
	Urban	46	44	43	37	40	41	44	38	42	40
	Rural	63	62	60	57	57	55	51	47	43	42
Child mortality rate: 1-4 years/1000	National	5.7	4.2	4.1	4.6	4.6	4.5	4.1	3.9	3.6	3.1
Maternal Mortality/1000	National	3.2	3.2	3.2	3.9	3.8	3.7	3.48	3.37	3.5	3.5
	Urban	2.6	2.6	2.6	2.7	2.7	2.5	2.7	1.9	2.2	2.4
	Rural	3.3	3.3	3.3	4.2	4	3.9	3.58	3.75	3.9	3.9
Contraceptive prevalence rate (%)		53.6	53.6	53.9	53.4	55.1	56.0	57.0	58.3	59.0	52.6
Fertility rate (Per Women)		2.6	2.6	2.6	2.6	2.6	2.6	2.46	2.41	2.39	2.30

Table-3: Millennium Development Goals (MDGs) achievements and target

Target	Indicator	Bench mark with Ref.	Achievement with Ref.	HNPSP Target 2011	MDG Target 2015
Reduce Child Mortality by 2/3, 1990-2015, the <5 mortality rate	Infant mortality rate/1000 live birth	65.0 BDHS'04	52 BDHS'07	37	31.3
	<5 mortality rate/1000 live birth	88.0 BDHS'04	65 BDHS'07	52	48
	Proportion of infants immunized against measles	72.0%	94.0%	96.0%	-
Reduce by 3/4, 1990-2015 The maternal mortality ratio	Maternal mortality ratio/1000 live birth	3.2 BMMS'01	2.90 UNFPA'06	1.94 BMMS'10	1.43
	Proportion of births attended by skilled health personnel	15.5% BDHS'04	18% BDHS'07	43%	50%
Half halt by 2015 and begin to reverse the spread of HIV/AIDS	Prevalence of HIV (% among high risk groups)	-	0.57 – 0.75	Halt	-
Half halt by 2015 and begin to reverse the incidence of malaria and other major diseases	New TB cases detection Rate %	38% NTP'03	72% NTP'07	>70.0	-
	TB cure rate under DOTS %	83.7% NTP'03	92% NTP'07	>85.0	

Table-4: Health, Population &amp; Nutrition Facilities under MOHFW.

No.	Average Population	No. of Facilities
1.	National -162 Million	Total: 35 ; Medical university : 1, Alt Med Hosp: 2 (DGHS), Family Planning Inst: 2 (DGFP), Post Graduate Instt. Hospital: 30
2.	Division :7 Nos	Total: 56 Med College Hospital : 18 (DGHS), Other Hospital: 28 (DGHS), Model Clinic: 14 (DGFP)
3.	District: 64 Nos. (2.3 Million)	Total: 221 ; District Hospital: 61 (DGHS), MCWC: 101; MCH-FP Clinics: 59 (DGFP)
4.	Upazila: 483 Nos. (0.3 Million)	Total: 421; Upazila Health Complex: 421 (DGHS)
5.	Union: 4,498 Nos. (0.03 Million)	Total: 5,168 ; USC, UHFWC: 1,449 (DGHS), UHFWC: 3,719 (DGFP)
6.	Ward 13,494 Nos. (Several villages make a ward) (11,000)	Total: 80,789 Community Clinic: 14,025 (3,975 CCs to be added soon) [DGHS & DGFP] Satellite Clinic: 30,000 (DGFP) Community Nutrition Center: 36,764 (NNP)
<b>Grand Total</b>		<b>86,690 Nos.</b>

Table-5: Comparison of health expenditures in Bangladesh, 2006 – 2007, with those of selected countries.

Country	Year	Per Capita Health Expenditure (\$)	THE as % of GDP	Public Expenditure as % of THE
Bangladesh (BNHA Estimates)	2007	\$ 16	3.6	26
Bangladesh (SHA Estimates)		\$ 16	3.6	27
Bangladesh	2006	\$ 14	3.3	27
India		\$ 29	3.6	25
Nepal		\$ 17	5.1	30
Pakistan		\$ 19	2.6	32
Sri Lanka		\$ 57	4.2	49

Table-6: Total Health Expenditure (THE) in Bangladesh.

in nominal terms	Year	Estimated Tk.	Estimated \$
	1997	48,699 million	1,140 million
	2001	74,193 million	1,375 million
	2007	160,899 million	2,331 million
in real terms	1997	47,502 million	1,112 million
	2001	72,781 million	1,349 million
	2007	150,092 million	2,174 million

Table-6.A Staffing - Directorate General of Health Services

Designation	Sanctioned	Existing			Vacant	Percent Vacancy
		Male	Female	Total		
Class I	20,704	12384	3282	15666	5038	24.33%
Class II	1611	400	715	1115	496	30.79%
Class III	65284	33044	20851	53895	11389	17.45%
Class IV	26041	15166	5743	20909	5132	19.70%
<b>Total:</b>	<b>113640</b>	<b>60994</b>	<b>30591</b>	<b>91585</b>	<b>22055</b>	<b>19.41%</b>

6. B. Staffing -Directorate General of Family Planning

Designation	Sanctioned	Post Filled Up	Post Vacant	Percent Vacancy
Class I	1757	910	847	48.21%
Class II	956	392	564	59%
Class III	16523	11704	4819	29.17%
Class IV	32171	27884	4287	13.33%
<b>Total:</b>	<b>51407</b>	<b>40890</b>	<b>10517</b>	<b>20.46%</b>

6.C. Staffing -Directorate of Nursing Services

Designation	Sanctioned	Post Filled Up	Post Vacant	Percent Vacancy
Class I	166	2	164	98.80%
Class II	485	142	343	70.72%
Class III	17322	15158	2164	12.49%
Class IV	869	628	241	27.73%
<b>Total:</b>	<b>18842</b>	<b>15930</b>	<b>2912</b>	<b>15.45%</b>

Table 7: Doctors Staffing Position:

Designation: Class-1	Pay Scale	Sanctioned Post	Male	Female	Total	Vacant
Director General, ADG, Director, OSD	02	6	4	1	5	1
Director Cum Professor, Principal, , etc	03	505	288	51	339	166
Deputy Director, Principal, Associate Professor, etc.	04	670	354	75	429	241
Asst. Director, Civil Surgeon, OSD etc.	05	536	321	36	357	179
Associate Professor, Asst. Professor, RMO, RS, UH&FPO, RP, etc	06	4,144	2,246	432	2,678	1,466
TH&FPO, Specialist, RMO, etc	07	584	347	72	419	165
Asst. Professor, Registrar, MO, etc	08	26	18	3	21	5
Registrar, RMO, MO, SLPP, , OSD etc	09	12,548	5,999	1,968	7,967	4,581
<b>Total :</b>		<b>19,019</b>	<b>9,577</b>	<b>2,638</b>	<b>12,215</b>	<b>6,804</b>

### 8. Post Graduate Health HRD Scenario in Bangladesh:

20 Institutes and 10 Medical Colleges given Diploma Masters, Mphil, PhD, FCPS, MCPS; 20 Institutes given MS Course on 16 subjects & Total seats 478; 17 Institutes given MD Course on 26 subjects & Total seats 591; 21 Institutes given Diploma Course on 15 subjects & Total seats 520; 6 Institutes given MPH Course on 6 subjects & Total seats 154. 12 Institutes given MPhil Course on 16 subjects & Total seats 278; NIPSOM total seats 141; MMed in CME seats 15; Total seats in Post Graduate Course: 2042; FCPS & MCPS has no definite number of seat; Total number of specialist Physician: 10411 among them 692 MS, 460 MD, 536 Mphil, 2959 Diploma, 2203 FCPS, 1595 MCPS 1966 MPH degree holder. University/Medical Colleges/Institutes offer different MD/MS/M.Phil/MPH/M.MED/Diploma courses in all affiliated Medical Colleges/Institutes and Diploma courses in BSMMU. Website: [www.bsmmu.org](http://www.bsmmu.org)

No.	Name of Medical College/Institute	No.	Name of Medical College/Institute	No.	Name of Medical College/Institute
1.	Bangabandhu Sheikh Mujib Medical University (Controller's Office)	11.	Shaheed Zaiaur Rahman Medical College	21.	Institute of Nuclear Medicine & Ultrasound, Dhaka
2.	Dhaka Medical College, Dhaka	12.	Bangladesh Institute of research & Rehabilitation in Diabetes, Endocrine & Metabolic Disorders (BIRDEM), Dhaka	22.	Institute of Child & Mother Health (ICMH), Dhaka
3.	Sir Salimullah Medical College, Dhaka	13.	National Institute of Preventive and Social Medicine (NIPSOM), Dhaka	23.	Bangladesh Institute of Health Sciences (BICH), Dhaka
4.	Mymensingh Medical College	14.	National Institute of Cardiovascular Diseases (NICVD), Dhaka	24.	Bangladesh Institute of Child Health (BICH), Dhaka
5.	Chittagong Medical College	15.	National Institute of Chest Diseases & Hospital (NIDCH), Dhaka	25.	Centre for Medical Education (CME), Dhaka
6.	Rajshahi Medical College	16.	National Institute of Kidney Diseases & Urology (NIKDU), Dhaka	26.	Lions Eye Institute & Hospital, Dhaka
7.	Sylhet MAG Osmani Medical College, Sylhet	17.	National Institute of Traumatology & Orthopaedics Rehabilitation (NITOR), Dhaka	27.	National Heart Foundation Hospital & Research Institute, Dhaka
8.	Rangpur Medical College	18.	National Institute of Ophthalmology, (NIO), Dhaka	28.	Islamia Eye Hospital & MA Ispahani Institute of Ophthalmology, Dhaka
9.	Sher-e-Bangla Medical College	19.	National Institute of Mental Health (NIMH), Dhaka	29.	Institute of Child Health & Shishu Sasthya Foundation Hospital, Dhaka
10.	Dhaka Dental College	20.	National Cancer Research Institute & Hospital, Dhaka	30.	Institute of Child Health, Chittagong
31.	Institute of Community Ophthalmology, Chittagong	32.	Khwaja Yunus Ali Medical College, Sirajganj		

### 9. Comparison of health indicators of selected south Asian countries, 2006

Country	Life expectancy at birth (year)	Infant mortality rate (per 1,000 live births)	Births skilled attendant (%)	Contraceptive prevalence (%)
Bangladesh	63	52	20	58.1
India	63	57	47	56.3
Pakistan	62	78	54	27.6
Srilanka	69	11	97	70
Nepal	62	46	19	48

### 10. Most Populous Countries, 2010 and 2050

Country	Population (millions)	Country	Population (millions)
China	1,338	India	1,748
India	1,189	China	1,437
United States	310	United States	423
Indonesia	235	Pakistan	335
Brazil	193	Nigeria	326
Pakistan	185	Indonesia	309
Bangladesh	164	Bangladesh	222
Nigeria	158	Brazil	215
Russia	142	Ethiopia	174
Japan	127	Congo, Dem. Rep.	166

**Reference:** 1. Human Resources Development Unit, MOHFW, 2. Directorate General of Health Services, 3. Directorate General Family Planning 4. Directorate of Drugs Administration, 5. Director of Nursing Services. 6. Bangladesh Medical & Dental Council. 7. Bangladesh Nursing Council 8. State Medical faculty, 9. Bangladesh Pharmacy Council, 10. Bangladesh Economic Review 2009 11. Global Health Workforce Alliance [www.ghwa.org](http://www.ghwa.org), 12. Asia-Pacific Action Alliance on Human Resource for Health [www.aahrh.org](http://www.aahrh.org) 13. Bangladesh National Health Accounts Database, WHO estimates for country NHA data ([http://www.who.int/nha/country/nha\\_ratios\\_and\\_per\\_capita\\_levels\\_2002-2006.pdf](http://www.who.int/nha/country/nha_ratios_and_per_capita_levels_2002-2006.pdf)) 14. Carl Haub, 2010 World Population Data Sheet.

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