

6 HEALTH INFRASTRUCTURE

6.1 Education Infrastructure

- 6.1.1 Number of Medical Colleges & Students Admitted to the 1st Year M.B.B.S. in India 1991-06
- 6.1.2 Number of Post Graduate Degree/Diploma Awarded in Various Disciplines of Medical Sciences by the Universities during Academic Session 2000-01
- 6.1.3 Number of Dental Colleges & Admissions to BDS and MDS Courses in India 1994-95 to 2005-06
- 6.1.4 States/UTs wise Number of Undergraduate Ayush Institutes & their Admission Capacity in India 2005
- 6.1.5 Number of Institutions and Admission Capacity/Number Admitted in Nursing/Para Medical Courses in India 2003-04

6.2 Service Infrastructure

- 6.2.1 States/UTs wise Number of Sub Centers, PHCs & CHCs Functioning in India 2004
- 6.2.2 States/UTs wise Number of Govt. Hospitals & Beds in Rural & Urban Areas (Including CHCs) In India
- 6.2.3 Medical Care Facilities under AYUSH by Management Status in India 2005
- 6.2.4 States/UTs wise Number of Licensed Blood Banks in India 2005
- 6.2.5 States/UTs wise Number of Mental Hospitals in India during 2004 (Provisional)
- 6.2.6 States/UTs wise Number of Cancer Hospitals in India during 2004 (Provisional)

Health Infrastructure

Health Infrastructure is an important indicator to understand the healthcare delivery provisions and mechanisms in a country. It also signifies the investments and priority accorded to creating the infrastructure in public and private sectors.

This section on Health Infrastructure indicators is subdivided into two - educational infrastructure and service infrastructure. Educational infrastructure provides details of medical colleges, students admitted to M.B.B.S. course, post graduate degree/diploma in medical colleges, dental colleges, admissions to BDS & MDS courses, AYUSH institutes, nursing courses and para-medical courses. Service infrastructure in health include details of allopathic hospitals, hospital beds, Indian System of Medicine & Homeopathy hospital, sub centers, PHC, CHC, blood banks, mental hospitals and cancer hospitals.

- ❑ Medical education infrastructures in the country have shown rapid growth during the last 15 years. The country has 242 medical colleges, 205 BDS colleges and 67 MDS colleges (2005-06). Number of postgraduate degree and diploma awarded in various disciplines of medical sciences by the universities during academic session 2000-2001 was 3181 and 1316 respectively.
- ❑ Besides, there are 1779 nursing and Para medical colleges with an intake capacity of 38,306 (2003-04).
- ❑ There are 5479 hospitals having 380993 beds in the country 3753 hospitals are in rural area with 119005 beds. Population served per Government Hospital is 197096 while population served per Government Hospital Bed is 2834 (2004).
- ❑ Medical care facilities under AYUSH by management status i.e. dispensaries & hospitals estimated during year 2005 were 960323 & 24313 respectively.
- ❑ There are 142655 Sub Centers, 23109 Primary Health Centers and 3222 Community Health Centers in the country (2004).
- ❑ India had 855 Government licensed Blood banks and 288 in Voluntary blood banks. Private hospitals has 561 blood banks and other private commercial centers are 473 (2005).

6.1 Education Infrastructure

6.1.1 Number of Medical Colleges & Students Admitted to the 1st Year M.B.B.S. in India 1991-06

S.No.	Year	No. of Medical Colleges	Admission		
			Male	Female	Total
	1	2	3	4	5
1	1991-92	146	7468	4731	12199
2	1992-93	146	6927	4314	11241
3	1993-94 ¹	146	5989	3541	10400
4	1994-95	152	7685	4564	12249
5	1995-96	165	4416	2623	7039
6	1996-97	165	2212	1269	3568
7	1997-98 ²	165	2348	1274	3949
8	1998-99 ²	147	NR	NR	11733
9	1999-00 ³	147	NR	NR	10104
10	2000-01	189	NR	NR	18168
11	2004-05	229	NR	NR	24690
12	2005-06	242	NR	NR	26449

Notes:

- 1 Total may not tally with male and female column as some Medical Colleges have given the information for total only.
 - 2 Data not received from 59 colleges in 1997-98 and 1998-1999
 - 3 Data not received from 89 colleges in 1999- 2000
- The data for the years 2001-02, 2002-03 & 2003-04 not provided by the source agency.
 - N.R: Not Received.

Source: Medical Council of India, 2005

6.1.2 Number of Post Graduate Degree/Diploma Awarded in Various Disciplines of Medical Sciences by the Universities during Academic Session 2000-01

S.No.	Subject	Degree			Diploma		
		Male	Female	Total	Male	Female	Total
	1	2	3	4	5	6	7
1	Anesthesiology	193	92	285	157	101	258
2	Biochemistry	14	21	35	N.A	N.A	N.A
3	Community medicine	35	23	58	9	2	11
4	Derm. Venereal & leprosy	41	25	66	21	19	40
5	Forensic medicine	12	5	17	5	N.A	5
6	General medicine	456	64	520	N.A	N.A	N.A
7	Obst. & gynae.	84	270	354	37	246	283
8	Padeiatrics	174	59	233	158	58	216
9	Pharmacology	22	26	48	N.A	N.A	N.A
10	Pathology	100	95	195	25	32	57
11	Physiology	14	27	41	N.A	N.A	N.A
12	Psychiatry	36	9	45	15	6	21
13	Radio-diagnosis	83	34	117	72	34	106
14	Radio therapy	12	6	18	N.A	N.A	N.A
15	E.N.T	88	24	112	51	24	75
16	General surgery	446	36	482	N.A	N.A	N.A
17	Ophthalmology	115	79	194	55	53	108
18	Orthopedics	173	5	178	111	1	112
19	Tuberculosis & resp. Diseases	37	9	46	12	2	14
20	Anatomy	14	20	34	N.A	N.A	N.A
21	Microbiology	37	50	87	N.A	N.A	N.A
22	Virology	N.A	N.A	N.A	1	1	2
23	Physical medicine & rehabilitation	3	1	4	N.A	N.A	N.A
24	M.D.S	2	1	3	N.A	N.A	N.A
25	S.T.D.	1	N.A	1	1	N.A	1
26	Hospital administration	8	N.A	8	N.A	N.A	N.A
27	Tropical medicine & health	N.A	N.A	N.A	3	N.A	3
28	Dermatology	N.A	N.A	N.A	2	2	4
	Total	2200	981	3181	735	581	1316

Note:

- NA- Not Available

Source: Medical Council of India

6.1.3 Number of Dental Colleges & Admissions to BDS and MDS Courses in India 1994-95 to 2005-06

S.No.	Year	BDS		MDS	
		No. of Dental Colleges	No. of Admission	No. of Dental Colleges	No. of Admission
	1	2	3	5	6
1	1994-95	77	1987	32	225
2	1995-96	94	2562	32	263
3	1996-97	100	2859	35	301
4	1997-98	100	3301	37	427
5	1998-99	110	6100	41	729
6	1999-00	121	7100	44	801
7	2000-01	135	8340	49	859
8	2001-02	149	9550	52	922
9	2002-03	164	10970	56	992
10	2003-04	185	12960	58	1106
11	2004-05	189	13300	61	1173
12	2005-06	205	14700	67	1291

Note:

- BDS = Bachelor of Dental Surgery
- MDS = Master of Dental Surgery
- Data is upto Dec. 2004

Source : Dental Council of India

6.1.4 States/UTs wise Number of Undergraduate Ayush Institutes & their Admission Capacity in India 2005

S.No.	States/UTs	Ayurveda		Unani		Siddha		Naturopathy		Homoeopathy		Total	
		No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.	No. of	Adm.
		Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity	Colleges	Capacity
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Andhra Pradesh	4	150	2	100	..	..	1		4	180	11	460
2	Arunachal Pradesh	0	0	..	..	..	..			1	50	1	50
3	Assam	1	50	..	..	..	..			3	90	4	140
4	Bihar	11	330	4	140	..	..			14	780	29	1250
5	Chhattisgarh	2	95	1	40	..	..	1		3	200	7	375
6	Chandigarh	1	50	..	..	..	..			1	80	2	130
7	Delhi	1	40	2	90	..	..			2	100	5	230
8	Goa	1	40	..	..	..	..			1	50	2	90
9	Gujarat	9	375	..	..	..	..	1		15	1585	25	2010
10	Haryana	6	250	..	..	..	..			1	50	7	300
11	Himachal Pradesh	1	50	..	..	..	..			1	100	2	150
12	Jammu & Kashmir	1	60	2	40	..	..			..	..	3	100
13	Jharkhand	1	40	..	..	..	..			2	100	3	140
14	Karnataka	50	2295	4	170	..	..	3		10	755	67	3330
15	Kerala	12	580	..	..	1	50			5	250	18	880
16	Madhya Pradesh	14	625	4	180	..	..			19	1715	37	2520
17	Maharashtra	56	2955	5	240	..	..			46	3850	107	7045
18	Orissa	6	190	..	..	..	..			6	195	12	385
19	Punjab	11	510	..	..	..	..			5	490	16	1000
20	Rajasthan	6	300	2	90	..	..	4		7	535	19	1080
21	Tamil Nadu	6	210	1	40	5	270			10	750	22	1270
22	Uttar Pradesh	14	400	9	355	..	..			8	100	31	855
23	Uttaranchal	3	160	..	..	..	..			1	50	4	210
24	West Bengal	2	110	1	40	..	..			13	730	16	880
TOTAL		219	9865	37	1525	6	320	10	0	178	12785	450	24880

Note:

- Admission In respect of Seven Colleges Stopped Since 2000-2001
- Admission capacity in respect of 3 colleges of Bihar, 2 colleges each of Karnataka & Maharashtra and 1 college each of Haryana, Orissa, and Tamil Nadu and 5 colleges of UP under Ayurveda, 1 College each of M.P., Maharashtra under Unani and 1 college each of Gujarat & Madhya Pradesh under Homoeopathy is not given.

Source: Central Council of Indian Medicine /Homeopathy

6.1.5 Number of Institutions and Admission Capacity/Number Admitted in Nursing/Para Medical Courses in India 2003-04

S. No.	Description of the courses	No. of Institutions	Admissions capacity / no. Admitted
	1	2	3
1	General Nurse Midwives ¹	635	NA
2	Aux. Nurse Midwives ¹	237	NA
3	Health Visitors & Health Supervisors ²	11	NA
4	Pharmacy (diploma) ³	377	22500
5	Dental Hygienist	17	65
6	Dental Mechanics Courses	18	50
7	B.Sc. (Med. Lab. Technicians)	3	56
8	Lab. Tech. /lab. Asstt.	97	2193
9	Sanitary/health/malaria inspectors	26	1695
10	Radiographers	33	410
11	X-ray technicians	41	426
12	Operational therapist Asstt.	6	59
13	Physiotherapist	8	174
14	Occupational therapist	4	75
15	Speech therapist	3	72
16	Orthopedist	4	24
17	Optician & refractionist	7	134
18	Health workers(male) under M.P.W	102	5334
19	Leprosy training centre		
	(I) Para-medical workers (lep)	40	2078
	(II) Non-medical supervisor (lep)	7	106
	(Iii) Lab tech. (lep)	7	120
	(Iv) Physiotherapist tech. (lep)	6	67
20	Miscellaneous (incl. Ophth. Asstt.)	90	2668

Notes:

1. Reference period 31-3-2005
 2. Reference period 31-12-2000
 3. Reference period Jun-05
- NA = Not Available

Source: Indian Nursing Council, Pharmacy Council of India. 2005

6.2 Service Infrastructure

6.2.1 States/UTs wise Number of Sub Centers, PHCs & CHCs Functioning in India 2004

S.No.	India/States/UTs	Sub Centres	PHCs	CHCs
	1	2	3	4
	India	142655	23109	3222
1	Andhra Pradesh	12522	1490	161
2	Arunachal Pradesh	376	78	31
3	Assam	5109	610	100
4	Bihar	10337	1648	101
5	Chhattisgarh	3818	516	116
6	Goa	172	19	5
7	Gujarat	7274	1070	271
8	Haryana	2433	408	72
9	Himachal Pradesh	2067	438	66
10	Jammu & Kashmir	1879	334	70
11	Jharkhand	4462	561	47
12	Karnataka	8143	1679	253
13	Kerala	5094	933	115
14	Madhya Pradesh	8835	1194	227
15	Maharashtra	9727	1780	382
16	Manipur	420	72	16
17	Meghalaya	401	95	23
18	Mizoram	351	57	12
19	Nagaland	394	87	21
20	Orissa	5927	1282	231
21	Punjab	2852	484	117
22	Rajasthan	9926	1675	298
23	Sikkim	147	24	4
24	Tamil Nadu	8682	1380	35
25	Tripura	539	73	9
26	Uttaranchal	1525	229	36
27	Uttar Pradesh	18577	3640	294
28	West Bengal	10356	1173	95
29	A & N Islands	107	20	4
30	Chandigarh	13	0	1
31	D & N Haveli	38	6	1
32	Daman & Diu	21	3	1
33	Delhi	42	8	0
34	Lakshadweep	14	4	3
35	Pondicherry	75	39	4

Note:

- Figures are provisional.

Source: RHS Division, Bulletin 2005, MOHFW/GOI., 2005

6.2.2 States/UTs wise Number of Govt. Hospitals & Beds in Rural & Urban Areas (Including CHCs) In India

S. No.	India/State/UT /Division	Rural Hospitals		Urban Hospitals		Total Hospitals		Population Served Per Govt. Hospital	Population Served Per Govt. Hospital Bed
		No.	Beds	No.	Beds	No.	Beds		
	1	2	3	4	5	6	7	8	9
	India	3964	111872	2256	292813	7008	469672	156556	2336
1	Andhra Pradesh	224	3005	297	32016	521	35021	154376	2297
2	Arunachal Pradesh	31	930	14	1236	45	2166	25311	526
3	Assam	100	3000	-	-	100	3000	280500	9350
4	Bihar	101	3030	-	-	101	3030	869406	28980
5	Chattisgarh	116	3514	22	2051	138	5565	159500	3955
6	Goa	12	882	8	1757	20	2639	74650	566
7	Gujarat	312	11893	191	23163	503	35056	108974	1564
8	Haryana	42	1068	91	6050	133	7118	170444	3185
9	Himachal Pradesh	86	2388	55	5398	141	7786	45106	817
10(a)	Jammu Division	28	830	8	870	36	1700	-	-
10(b)	Kashmir Division	33	990	7	605	40	1595	-	-
11	Jharkhand	47	1410	-	-	47	1410	602191	20073
12	Karnataka	442	7320	281	33984	723	41304	76744	1343
13	Kerala	127	7771	62	18068	189	25839	177614	1299
14	Madhya Pradesh	229	6884	95	10818	324	17702	186373	3411
15	Maharashtra	382	11460	-	-	1170 ¹	76447	86560	1325
16	Manipur	27	470	1	200	28	670	91464	3822
17	Meghalaya	26	990	4	1167	30	2157	80367	1118
18	Mizoram	10	290	10	879	20	1169	47150	807
19	Nagaland	36	1270	12	790	48	2060	43938	1024
20	Orissa	323	4721	83	8425	406	13146	96190	2971
21	Punjab	139	4590	21	4383	160	8973	158350	2824
22	Rajasthan	225	7465	285	24615	510	32080	120176	1910
23	Sikkim	6	430	1	300	7	730	82714	793
24	Tamil Nadu	115	3318	309	40249	424	43567	153917	1498
25	Tripura	11	385	15	1846	26	2231	129808	1513
27	Uttar Pradesh	294	8820	-	-	294	8820	601241	20041
26	Uttaranchal	36	1080	-	-	36	1080	247917	8264
28	West Bengal	385	10946	257	47570	642	58516	131924	1447
29	A&N Island	6	340	2	557	8	897	48125	429
30	Chandigarh	2	50	5	2150	7	2200	138428	440
31	D&N Haveli	1	30	1	75	2	105	121000	2305
32	Daman & Diu	2	52	2	140	4	192	42500	885
33	Delhi	0	0	105	20368	105	20368	144076	743
34	Lakshadweep	5	160	-	-	5	160	13000	406
35	Pondicherry	3	90	12	3083	15	3173	68467	324

Notes:

- Includes CHCs (348) and other Rural and Urban hospitals (788 with 64987 beds for which Rural Urban break up not furnished
- Government includes central government, state government and local govt. Bodies
 - Source are DHS of States/UTs; In spite of repeated efforts, some States/UTs have either not submitted or submitted the information of previous years only
 - Figures are for varying periods and thus are provisional and subject to change

Source: Directorate General of Health Services, 2006

6.2.3 Medical Care Facilities under AYUSH by Management Status in India 2005

S. No.	Management	Ayurveda		Unani		Siddha		Yoga		Naturopathy		Homoeopathy	
		Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals	Dispensaries	Hospitals
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	State Govt./ U.T./ Admn.	13984	554	1094	38	437	270	28	4	12	11	4567	80
2	Local Bodies	966	16	43	0	0	0	0	0	8	0	774	2
3	Others	12	158	1	24	0	4	40	3	32	10	61	135
	Subtotal (1 to 3)	14962	728	1138	62	437	274	68	7	52	21	5402	217
4	Central Government Health Scheme	31	1	9	0	2	0	3	0	3	0	34	0
5	Railways Ministry	39	0	0	0	0	0	0	0	0	0	129	0
6	Labour Ministry :												
i)	Employees State Insurance	104	N.A	1	0	3	0	0	0	0	0	29	0
ii)	Mica Mines	3	N.A	0	0	0	0	0	0	0	0	0	0
iii)	Dolomite Mines	13	N.A	0	0	0	0	0	0	0	0	0	0
iv)	Beedi Workers	7	0	0	0	0	0	0	0	0	0	0	0
7	Energy Ministry (Coal Mines)	28	0	0	0	0	0	0	0	0	0	0	0
8	Central Research Councils	6	24	5	12	2	2	0	0	0	0	40	6
	Total	15193	753	1153	74	444	276	71	7	55	21	5634	223

Note:

- Figures are provisional.

Source: P&E Cell, D/o AYUSH, Ministry of Health & Family Welfare

6.2.4 States/UTs wise Number of Licensed Blood Banks in India 2005

S.No.	India/State/UTs	Government	Voluntary	Private Hospital	Private Commercial	Total
	1	2	3	4	5	6
	India	855	288	561	473	2177
1	Andhra Pradesh	67	32	68	49	216
2	Arunachal Pradesh	2	1	N.A	N.A	3
3	Assam	38	4	17	6	65
4	Bihar	43	5	12	22	82
5	Chhattisgarh	13	1	5	11	30
6	Goa	5	N.A	1	3	9
7	Gujarat	30	71	5	64	170
8	Haryana	17	6	16	11	50
9	Himachal Pradesh	14	1	N.A	N.A	15
10	Jammu & Kashmir	21	N.A	1	N.A	22
11	Jharkhand	5	N.A	4	2	11
12	Karnataka	41	19	56	39	155
13	Kerala	35	5	93	9	142
14	Madhya Pradesh	43	17	17	31	108
15	Maharashtra	82	30	66	90	268
16	Manipur	3	N.A	N.A	N.A	3
17	Meghalaya	3	N.A	2	N.A	5
18	Mizoram	3	N.A	2	N.A	5
19	Nagaland	3	N.A	N.A	N.A	3
20	Orissa	5	48	13	2	68
21	Punjab	44	5	31	2	82
22	Rajasthan	46	5	12	6	69
23	Sikkim	3	N.A	N.A	N.A	3
24	Tamilnadu	100	18	65	54	237
25	Tripura	3	N.A	3	N.A	6
26	Uttar Pradesh	69	9	28	45	151
27	Uttaranchal	16	N.A	5	1	22
28	West Bengal	71	6	11	19	107
29	Andaman & Nicobar	2	N.A	N.A	N.A	2
30	Chandigarh	3	1	N.A	N.A	4
31	Dadra & Nagar Haveli	N.A	1	N.A	N.A	1
32	Daman & Diu	1	N.A	N.A	N.A	1
33	Delhi	19	3	21	7	50
34	Lakshadweep	N.A	N.A	N.A	N.A	0
35	Pondicherry	5	N.A	7	N.A	12

Notes:

- NA: Not Available

Source: Drug Controller General (I), DGHS, MOHFW, 2005.

6.2.5 States/UTs wise Number of Mental Hospitals in India during 2004 (Provisional)

S.No.	States/UTs	No. of Mental Hospitals	Total Number of Beds
	1	2	3
1	Andhra Pradesh	2	300
2	Assam	1	336
3	Goa	1	190
4	Gujarat	7	367
5	Jammu & Kashmir	2	100
6	Jharkhand ¹	3	1173
7	Karnataka	2	375
8	Kerala	3	868
9	Madhya Pradesh ¹	2	212
10	Maharashtra	5	3197
11	Meghalaya ¹	1	NR
12	Nagaland ¹	1	25
13	Orissa ¹	1	60
14	Punjab ¹	1	NR
15	Rajasthan ¹	2	312
16	Tamil Nadu ¹	1	1800
17	Uttar Pradesh	4	408
18	West Bengal ¹	7	386
19	Delhi	1	220
	Total	47	10329

Notes:

1. Data related to the year 2004 has not come. Data produced here is for the year 2003
- NR-Information not Received

Source: *Specialized Mental Hospitals, 2005*

6.2.6 States/UTs wise Number of Cancer Hospitals in India during 2004 (Provisional)

S. No.	States/UTs	No. of Hospitals	Total Number of Beds	Admission			Discharged			Deaths			Number of Hospitals Reported
				Male	Female	Total	Male	Female	Total	Male	Female	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra Pradesh	1	250	NR	NR	11204	NR	NR	11007	NR	NR	197	1
2	Assam	1	118	1072	583	1655	1001	563	1564	71	20	91	1
3	Bihar	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
4	Gujarat	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
5	Himachal Pradesh	1	48	188	283	471	184	280	464	4	4	8	1
6	Karnataka	2	429	2130	3021	5151	1920	2878	4798	242	160	402	1
7	Kerala	1	1000	1211	1072	2283	1163	1041	2204	61	53	114	1
8	Madhya Pradesh	5	156	2870	2388	5258	2794	2336	5130	75	50	125	1
9	Maharashtra	2	24	350	476	826	336	456	792	15	19	34	1
10	Orissa	1	146	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
11	Rajasthan	1	140	1524	1151	2675	1452	1095	2545	61	43	104	1
12	Tamil Nadu	4	423	3064	5523	8587	3003	5481	8484	53	46	99	1
13	Tripura	1	50	966	606	1572	915	583	1498	48	21	69	1
14	Uttar Pradesh	1	106	1068	1242	2310	1035	1224	2259	31	12	43	1
15	West Bengal	6	25	612	661	1273	536	575	1111	88	85	173	1
16	Delhi	3	262	6823	7939	14762	6617	7791	14408	201	144	345	2
	Total	35	3177	21878	24945	58027	20956	24303	56264	950	657	1804	15

Notes:

- NR = Information Not Received
- Data related to the year 2004 has not come. Data produced here is for the year 2003
- The sum of male and female may not tally with the total as some states have not reported gender wise information separately.

Source: Specialized Cancer Hospitals, 2005