

Public Hospital Governance in India

**A study of
All India Institute of Medical Sciences
(AIIMS), New Delhi**

- **Dr Shakti Kumar Gupta**, Head, Department of Hospital Administration and Medical Superintendent, All India Institute of Medical Sciences, New Delhi, India
- **Dr Angel Rajan Singh**, Senior Resident Administrator, Department of Hospital Administration, All India Institute of Medical Sciences, New Delhi, India
- **Dr Arunachalam Gunasekar**, Technical Officer (Universal Health Coverage), WHO Country Office for India
- **Dr Parmeshwar Kumar**, Senior Resident Administrator, Department of Hospital Administration, All India Institute of Medical Sciences, New Delhi, India
- **Dr Chandrakant Lahariya**, Routine Immunization and New Vaccines focal person, WHO Country Office for India
- **Mr Kamal Gulati**, Project Manager, Department of Hospital Administration, All India Institute of Medical Sciences, New Delhi, India
- **Dr Antonio Duran**, Chief Executive Officer, Tecnicas de Salud, Spain

Methodology

- Review of existing literature and data sources
- Supplemented by key informant interviews
- The case study used both explicit and tacit knowledge as evidence, the later coming from the participation of senior hospital managers and other national experts as key informants during focused group discussion and / or individual interviews (loosely structured, in-depth discussions).
- Draft discussion guides & topic points were shared across the working group members to enhance comparability of the case studies' findings.
- Conceptual framework given by APO was used as the guidance document

Selection of the Hospital

- Mandate: Focus on the type of public hospitals that account for the large bulk of budgets and patient load. These should be public hospitals that are experiencing policy directed change in their governance ...
- Answer: **ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS), New Delhi, India**
 - Apex Public Hospital (1/11993 or 0.00008%)
 - 0.2% of Public Hospital Beds
 - 0.5% of Federal Health Budget
 - Handles over 10000 walk-in patients per day
 - Rated amongst the best in the World & the Country in various surveys ...

In Newsweek Magazine

Medical Meccas: An Oasis for India's Poorest

Oct 29, 2006 7:00 PM EST

This is what it takes to be India's best public hospital. Last year the government-run hospital, with about 2,000 beds, treated 3.5 million people, achieving mortality and infection rates comparable to the best facilities in the developed world--for fees that come to about \$1 a day for inpatients.

AIIMS FOR EXCELLENCE

cover story INDIA TODAY-ORG-MARG SURVEY ON COLLEGES

Medicine

By Supriya Bezbaruah

Everybody covets a place in the sun. While others push and shove, one medical institute appears to have found an almost permanent abode there. The All India Institute of Medical Sciences (AIIMS), Delhi, which has topped the survey yet again, had only slipped once, and that too narrowly, to the second position in 2002. Indeed the numero uno in medicine, it remains untouched

AIIMS RETAINS THE TOP SPOT BUT COME FROM TWO KARNATAKA COLLEGES MOVE UP TO GRAB THE SECOND

by the swings recorded by other colleges include two Karnataka colleges—the College of Bangalore and the Kasturba College—which have moved up to the top. Pushing Christian Medical College, Vellore, Fortis Medical College, Pune, to the fifth position, Pondicherry, and Maulana Azad Medical College, Delhi, too have slipped.

At AIIMS, however, Director P.V. Srinivasan's success in his stride, "our student institute's success in the world include the best colleges in the world include without interviews."

The exalted status is not without a 1956 by an Act of Parliament, it had legends. "That start made all the difference people you emulate, whose shoes you endocrinologist Nikhil Tandon, a 4

Top 10 Ranking
2004
1 All India Institute of Medical Sciences, Delhi

2003
1 Bangalore Medical College, Bangalore
2 Kasturba Medical College, Manipal

2003

TOP 10 COLLEGES
New Winners of the Exclusive Survey

2004

Top 10 Ranking
2004

- 1 All India Institute of Medical Sciences, Delhi
- 2 Bangalore Medical College, Bangalore
- 3 Kasturba Medical College, Manipal
- 4 Madras Medical College, Chennai
- 5 Christian Medical College, Vellore

- Infrastructure – beyond limit
- Well equipped library and learning resources
- Teacher – student ratio comparable to best in the world
- Exposure to clinical material and research
- Competent & committed faculty and staff

RANKING OF COLLEGES ON THEMES

	REPUTATION	CURRICULUM	QUALITY OF ACADEMIC INPUT	STUDENT CARE	ADMISSION PROCEDURE	INFRASTRUCTURE	JOB PROSPECTS	PERCEPTUAL
AIIMS, Delhi	1 1	1 2	1 2	1 3	1 1	1 1	1 5	1
Bangalore Medical College, Bangalore	2 -	2 -	3 -	3 -	2 -	3 -	3 -	2
Kasturba Medical College, Manipal	3 5	3 7	2 6	2 5	3 6	2 6	4 5	3 7
Madras Medical College, Chennai	4 8	4 5	4 7	4 4	4 5	4 6	2 2	4 6
Christian Medical College, Vellore	6 2	6 1	6 1	6 1	7 4	5 2	7 -	5 2

The best & the rest

Exclusive 20-city survey of hospitals and medical colleges

The Week's Top 10 hospitals

Hospital	2004	2003
All India Institute of Medical Sciences, Delhi	1	1
Apollo Hospitals, Chennai	2	2
Post Graduate Institute of Medical Education & Research, Chandigarh	3	3
Christian Medical College, Vellore	4	4
Sankara Nethralaya, Chennai	5	5
Bombay Hospital, Mumbai	6	8
National Institute of Mental Health and Neurosciences, Bangalore	7	5
Jaslok Hospital, Mumbai	8	7
Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	8	10
Jawahar Institute of Postgraduate Medical Education & Research, Pondicherry	9	9
Tata Memorial Hospital, Mumbai	10	9

2010 & 11

THE INDIA TODAY-NIELSEN SURVEY

INDIA'S BEST COLLEGES

Medicine

The All India Institute of Medical Sciences stands lonely at the top as traditional toppers make way for new aspirants in a major churn in the rankings. What makes AIIMS the leader for 14 years?



STUDENTS OUTSIDE THE ACADEMIC BLOCK AT AIIMS, DELHI

TOP 25 MEDICINE

OVERALL RANK 2011	2010	College Name	RANKING ON THEMES						Overall Score
			Reputation	Quality of Academic Input	Student care	Infrastructure	Job Prospects	Reputational Rank	
1	1	All India Institute of Medical Sciences (AIIMS), Delhi	1	1	1	1	1	4	100
2	5	Maulana Azad Medical College (MAMC), Delhi	3	3	3	3	3	5	89.44
3	11	University College of Medical Sciences and GTB Hospital, Delhi	7	8	6	7	9	7	87.66
4	2	Christian Medical College (CMC), Vellore	11	14	15	15	10	14	86.85
5	3	Armed Forces Medical College (AFMC), Pune	10	11	11	15	10	11	85.61
6	7	Lady Hardinge Medical College (LHMC), Delhi	2	2	2	2	2	6	75.61
7	4	JIPMER College, Puducherry	4	4	4	4	4	11	68.20
8	-	B.J. Medical School, Ahmedabad	18	19	21	21	17	20	68.02
9	9	Grant Medical College, Mumbai	7	9	6	8	6	8	66.90
10	-	Kasturba Medical College (KMC), Manipal	4	5	6	5	7	5	60.25
11	10	Seth G.S. Medical College, Mumbai	22	21	23	23	22	22	62.29
12	-	Vardhman Mahavir Medical College and Safdarjung Hospital, Delhi	4	5	6	5	7	5	61.85
13	22	Medical College and Hospital, Kolkata	31	32	30	30	31	31	61.85
14	15	King George Medical College, CMM Medical University, Lucknow	11	12	13	13	12	12	61.85
15	12	Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh	12	13	12	12	11	11	61.85

TOP 25 MEDICINE

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2	5	Maulana Azad Medical College (MAMC), Delhi	3	3	3	3
3	11	University College of Medical Sciences and GTB Hospital, Delhi	7	8	6	7
4	2	Christian Medical College (CMC), Vellore	11	14	15	15

WHAT SETS AIIMS APART

- TEACHING** Intensive curriculum, close mentoring, clinical exposure and research-focus make AIIMS the best.
- RESEARCH** 1,559 publications in high-impact journals, 300 projects and a budget of Rs 56 crore last year. AIIMS does 50 per cent of India's medical research.
- PATIENT CARE** A year of internship gives MBBS students the rare exposure to a massive patient-load of 30 lakh.
- EXAMS** Toughest all-India medical entrance; 45,000 students apply for 77 MBBS seats.
- ETHICS** Giving back to society is the mantra. Students are exposed to social and ethical issues of clinical practice.
- BRAND** With all-round excellence, AIIMS is now the favourite hunting ground for India's new corporate hospitals.

Data Sources (Indicative)

- AIIMS Act, Rules and Regulations
- AIIMS Amendment Bill – 1999, 2007, 2012
- AIIMS Annual Reports
- AIIMS-Ministry of Health & Family Welfare – Public Accounts Committee Report 2004-05
- Annual Report of the Ministry of Health & Family Welfare, Govt. Of India (2010) (CAG Report)
- Parliament of India (Rajya Sabha) Committee on Subordinate Legislation 178th Report – Report on AIIMS Regulation 1999
- Valiathan Committee Expert Committee Report on AIIMS
- Report on Ministry of Health & Family Welfare No.4, 2001.
- Report of the Committee constituted to look into the aspect of Improvement in Standard of Research Activities in Autonomous Institutes of Medical Education in under the Ministry of Health & FW.
- Report of the Committee on the Welfare of Scheduled Castes and Scheduled Tribes (14th Lok Sabha) – 2006-2007
- Report of the Committee to enquire into the Allegation of Differential Treatment of SC/ST Students in AIIMS
- Note on Employee Health Scheme provided at AIIMS
- Result Framework Document for Department of Health & Family Welfare (2011-2012)
- Key Informant Interviews & Focused Group Discussion

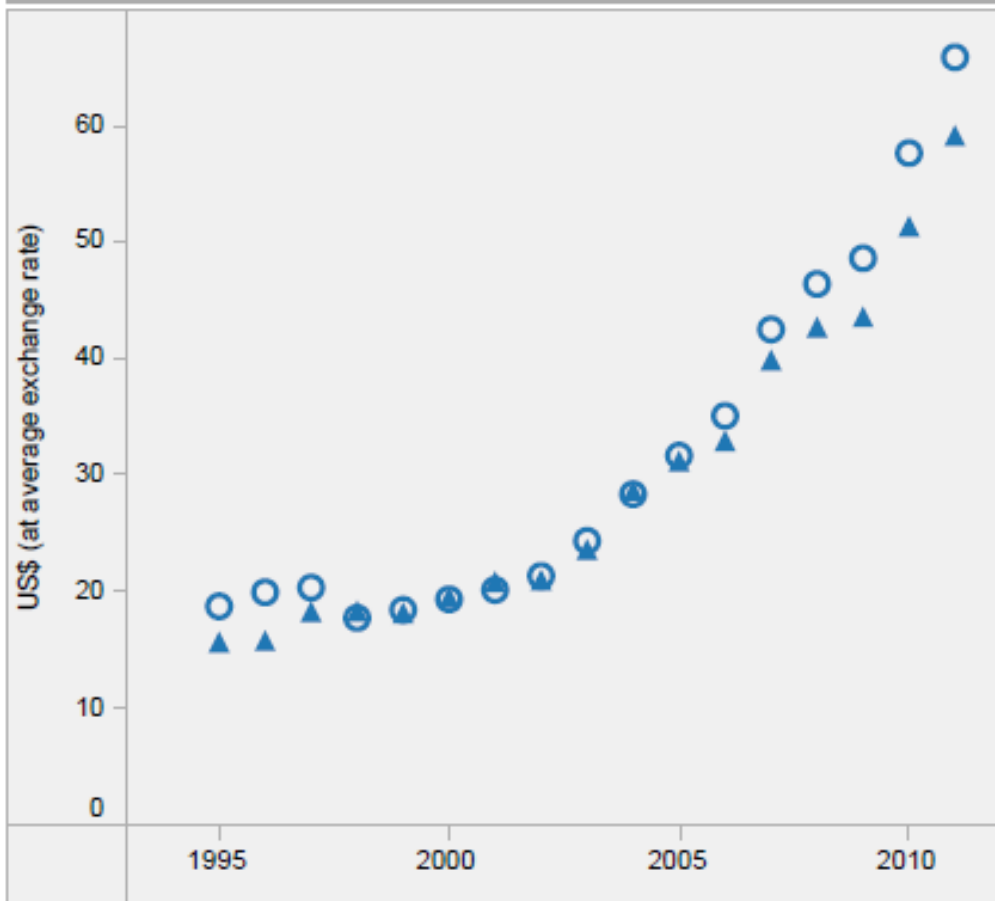
Country Profile (2013)

- World's largest democracy
- 2nd most populous country - (1.23 billion) - 17.5% of world's population vis a vis 2.4% of the world area
- 29 States of wide population variations (from 0.6 million in the hilly state of Sikkim to almost 20 million in the Uttar Pradesh), and 6 Union Territories.
- Population density (382 per sq.km) also varies widely, Arunachal Pradesh having a sparse population of 17 per sq.km whereas the National Capital Territory of Delhi has more than 11,000 living per sq.km.

Country Profile (2013)

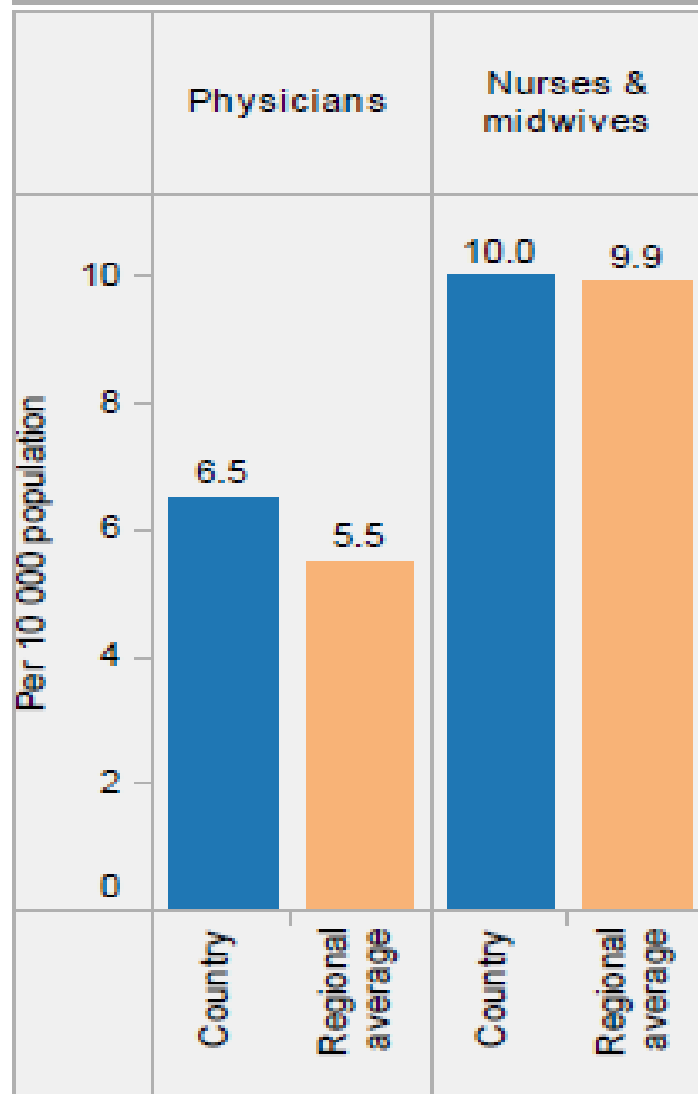
- 11th largest economy (GDP \$ 1.842 trillion)
- Per capita income - \$1219
- Total health expenditure : 3.7% of GDP
 - Public Health Expenditure: 1.2%
- Drastic Inter-state differences in health status:
 - there is an 18 year difference in life expectancy between Madhya Pradesh at 56 years and Kerala at 74 years;
 - a difference of 44 in infant mortality rates between Madhya Pradesh at 56 and Kerala at 12 (Government of India, 2013).

Per capita total expenditure on health



△ India
○ SEAR

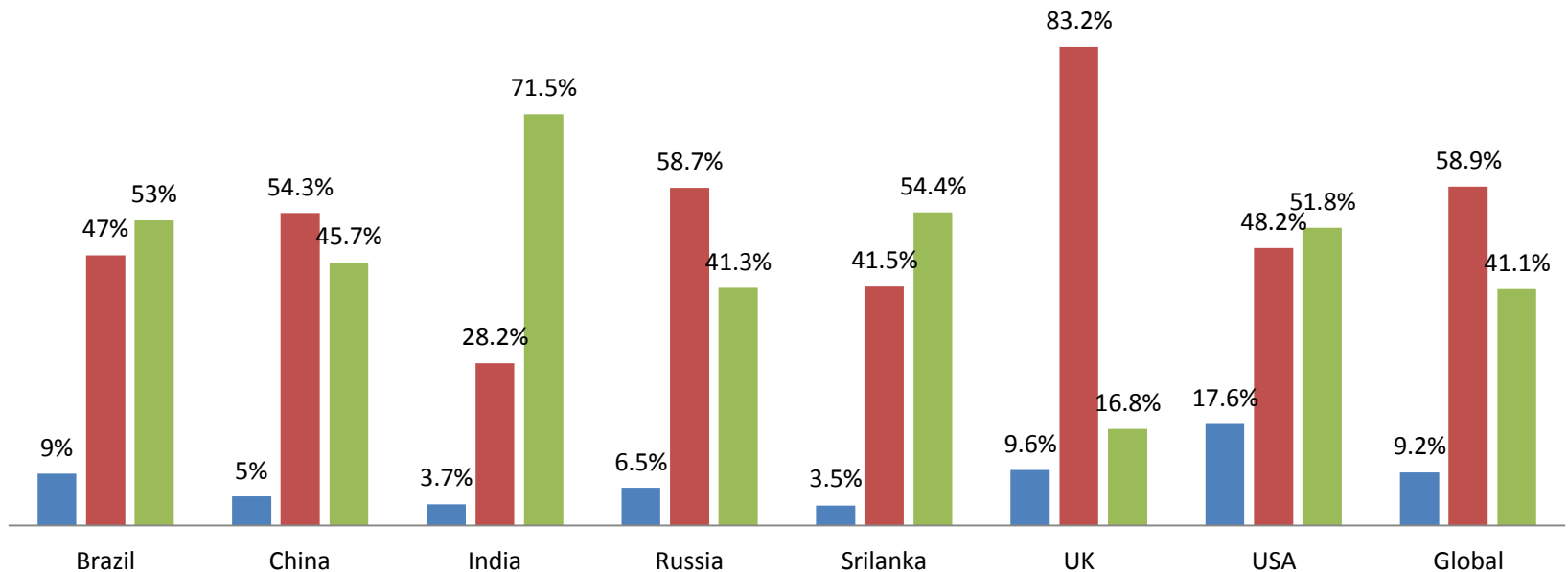
Health workforce*



Source: WHO 2013

Healthcare expenditures (total, public and private) in India and selected countries, 2013

- Total expenditure on health as % of GDP
- Public expenditure on health as % of total expenditure on health
- Private expenditure on health as % of total expenditure on health



Source: WHO 2013

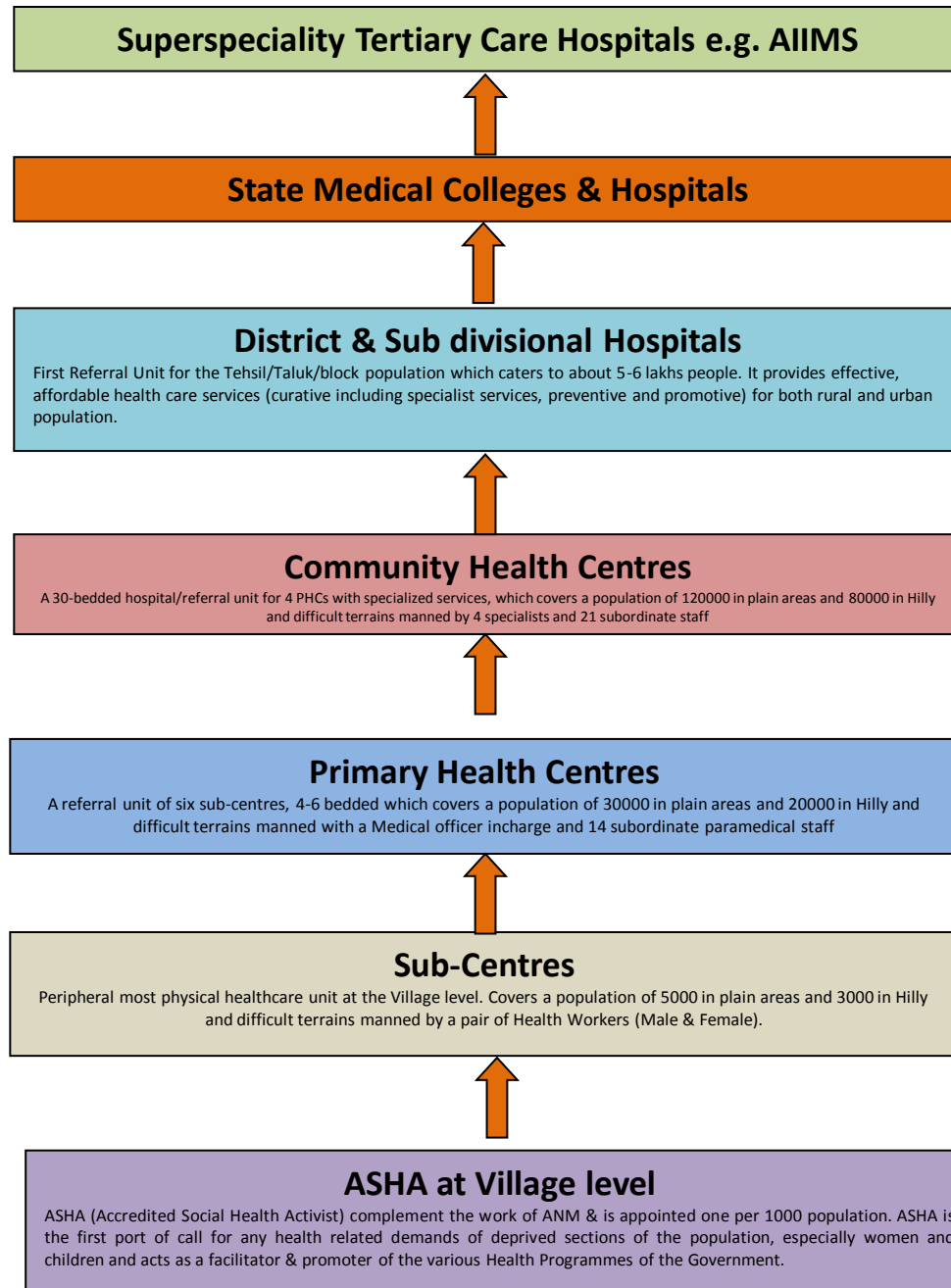
Public Health System in India

Structure & Organization

- Under the Indian Constitution, health is a state subject.
- The Central government retains aspects of policy-making, planning, guiding, assisting, evaluating and coordinating various provincial health authorities as well as providing funding to implement national programmes while States are responsible for the functioning of their respective healthcare systems.

Structure & Organization

- The organisation at the national level consists of the Union Ministry of Health and Family Welfare (MoHFW).
- In each State, the organisation is under the State Department of Health and Family Welfare that is headed by a State Minister and with a Secretariat under the charge of the Secretary/Commissioner



Public Health System in India (2012)

- Subcentres : 148,366
 - PHCs : 24,049
 - CHCs : 4,833
 - Hospitals : 11,993
 - Bed compliment : 9 per 10,000 ppl
-
- Shortfall of 23% sub-centres, 26% PHCs and 40% CHCs

Source: Central Bureau for Health Statistics

Development of Healthcare in India

Year	Activity
1946 (pre-independence)	‘Health Survey and Development Committee Report’ popularly referred to as the ‘Bhore Committee Report’ Recognized the vast rural-urban disparities health services and hence based its plan with the “rural population” specifically
1961	Planning Commission proposed increasing hospital beds and organizing hospitals’ out-patient departments into polyclinics for providing much of the treatment. Encouraged establishing convalescent homes and inns near hospitals to help reduce pressure on hospital in-patient facilities.
1978	Alma ata declaration
1983	National Health Policy rated healthcare services development as ‘urban oriented and curative’ Focus back on a ‘comprehensive public health system’ with a primary healthcare approach
1986	Consumer Protection Act, provided a mechanism for grievance redressal

Development of Healthcare in India

Year	Activity
1990s	<p>A liberalization-privatization process enabled the entry of the corporate sector in health</p> <p>Many states provided land, water and electricity at subsidized rates on the condition that they provide outpatient and inpatient care free of cost to people “below the poverty line”</p> <p>The strategy however had serious policy omissions:</p> <ul style="list-style-type: none">(i) failure to establish a regulatory framework and accreditation processes for governing the private sector;(ii) absence of a surveillance and epidemiological system resulting in poorly designed health interventions; and(iii) inadequate investments in developing skilled human resources.
1997-2002	<p>India’s 9th Five-year Plan recognized the growing demand for complex, costly diagnostic and therapeutic modalities, and lack of skilled manpower, equipment and consumables</p>

Development of Healthcare in India

Year	Activity
2002 National Health Policy (2002)	Focus on : (i) greater involvement of the private sector in public health delivery through Public Private Partnership, outsourcing, etc, (ii) introduction of social insurance packages; (iii) Stressed regulating the private health sector through statutory licensing and monitoring of minimum standards.
2005	Govt. of India launched National Rural Health Mission (NRHM), aimed at strengthening state health systems with special focus on Reproductive and Child Health (RCH) and Disease Control Programmes.
2006	“Pradhan Mantri Swasthya Suraksha Yojana” (PMSSY) to establish 8 AIIMS-like institutions and upgrade 13 government medical colleges to correct imbalances in availability of tertiary healthcare services and also augment quality medical education facilities

Development of Healthcare in India

Year	Activity
2008	<p>Non-contributory publicly funded Rashtriya Swasthya Bima Yojna (National Health Insurance Scheme)</p> <p>To protect below poverty line households from major health contingencies requiring hospitalization affecting the vast majority of workers in the unorganized sector, including agriculture.</p>
2013	<p>Government approved National Urban Health Mission - a submission under an overarching National Health Mission, with the modalities of service funding, organization and delivery in nascent stages of development.</p>

Private Health Sector

- Consists of the 'not-for-profit' and the 'for-profit' sectors.
- Not-for-profit
 - Non-government organisations (NGOs),
 - Charitable institutions, missions, trusts, etc;
- For-profit sector
 - Various types of practitioners and institutions i.e. General Practitioners (GPs), super specialists, consultants, nurses and paramedics
 - Registered/Rural Medical Practitioners (RMPs)
 - Unqualified providers (quacks)

Private Health Sector

- At the time of independence, private health sector provided only 8% of total healthcare services
- Grown exponentially to emerge as major service provider (~80% of total out-patient & 60% of total inpatient care)
- Accounts for 80% of the market in India now, the highest proportion in the world in volume as USD 23.72 billion
- Approx. 93% of all hospitals, 64% of beds and 82% of doctors are in the private sector (World Bank, 2001)
- In 2012 private sector contributed 70% of new beds added between 2002 and 2010
- Proportion of private sector beds to total beds increased from 49% to 63%



All India Institute of Medical Sciences, New Delhi

Factors leading to the Birth of AIIMS

- In 1947 the country only had 20 medical schools and about 1200 students
- Bhore Committee (1946) recommended that no time should be lost in establishing one “All-India Medical Institute” to ensure quality medical education, research and patient care
- AIIMS would excel in postgraduate courses and function as a university demonstrating high standards to all other medical colleges in the country
- Initial funding for setting up AIIMS was provided by the Government of New Zealand under the Colombo plan
- Training and financial assistance from the Rockefeller Foundation
- AIIMS was established in 1956 with a large measure of autonomy through an Act of Parliament i.e. the AIIMS Act, 1956

Governance Structure

- AllIMS makes decisions at the institutional level with accountabilities/incentives
- Decision-making structure has an apex management authority called 'Institute Body', with 17 members
- An 11-member 'Governing body' functions under this 'Institute body' as executive authority.
- President of the Institute is the Chairperson of both these Apex Bodies.
- Director is the Chief Executive Officer of the Institute
- Director General of Health Services is the ex-officio member of the Institute body.

Organizational Structure

President

Institute Body

Governing Body

Standing Committees

Director (COO)

Deputy
Director
(Admn)

Medical
Superintend
ents

Deans

Chiefs of
Centres

Heads of
Depts

Sr. Financial
Adviser

Autonomy

The spirit behind the Autonomy envisaged for AIIMS can be appreciated from the extract of the speech delivered by the then Union Health Minister, Raj Kumari Amrit Kaur while piloting the bill with regard to AIIMS in Lok Sabha on the 18th February 1956:

“Subject to such minimum control as the Government of India may exercise through its rule-making powers, the Institute will enjoy a large measure of autonomy in order that it may fulfill the objectives...The Government of India will, of course, make itself responsible for providing adequate funds for the maintenance of the institute....The future of the Institute will lie ultimately in the hands of the Directors, the Professors and other members of the teaching staff and students...”

Autonomy

- Further, while clarifying regarding the representation of the Ministry of Health in the Institute Body, the Health Minister had stated categorically that other than Director General Health Services, Govt. of India, who is the ex-officio member, there won't be any additional representation from the Ministry of Health.
- To respect the assurance given to Parliament after establishing the Institute, she remained the President of the Institute (while being only Rajya Sabha Member [Upper House of the Parliament]) without being Health Minister from 1957 to 1964 after which the practice of appointing the Union Health Minister as the President of the Institute came in vogue.

Autonomy

- AllMS has always argued that the autonomy of the Institute stands undermined by nominating the Health Minister as the President even though none of the provisions of the AllMS Act provides for such a nomination.
- The Ministry of Health and Family Welfare was of the opinion that this did not in anyway jeopardize the autonomy of AllMS.
- AllMS was setup under an Act of Parliament, it has to be accountable to the legislature as well. This accountability is best ensured if both the Union Health and Family Welfare Ministry and Secretary (Health), Govt. of India are brought on board of the Institute.

Autonomy

- Another facet of its autonomy relates to medical education and the purposeful move by its founders to keep AIIMS out of the ambit of Indian Medical Council (IMC).
- This was probably done as IMC did not recognize certain foreign medical qualifications which would have disqualified several faculty members who were to establish their respective departments during the early years of the institute.
- This has also enabled AIIMS to experiment with medical education curriculum and seek out and make initiatives in various fields of medical science, in training, in research and most importantly in patient care.

Autonomy

- The autonomous structure of AIIMS notwithstanding, the effect of government policies, successive five year plan priorities, as well as the focus of the different governments that have ruled the country have all had an impact on the governance and therefore on the evolution of AIIMS.
- From that perspective, **AIIMS is a semi-autonomous system constantly interacting with and influenced by with its external environment.**

Growth Pangs ...

- In the early years of its inception, AIIMS established itself as a Centre for Excellence primarily focusing on imparting high quality medical education in India.
- Underdevelopment of the primary & secondary healthcare system and the virtual non-existence of a mandatorily enforced referral system resulted in a manifold increase in the patient load at AIIMS.

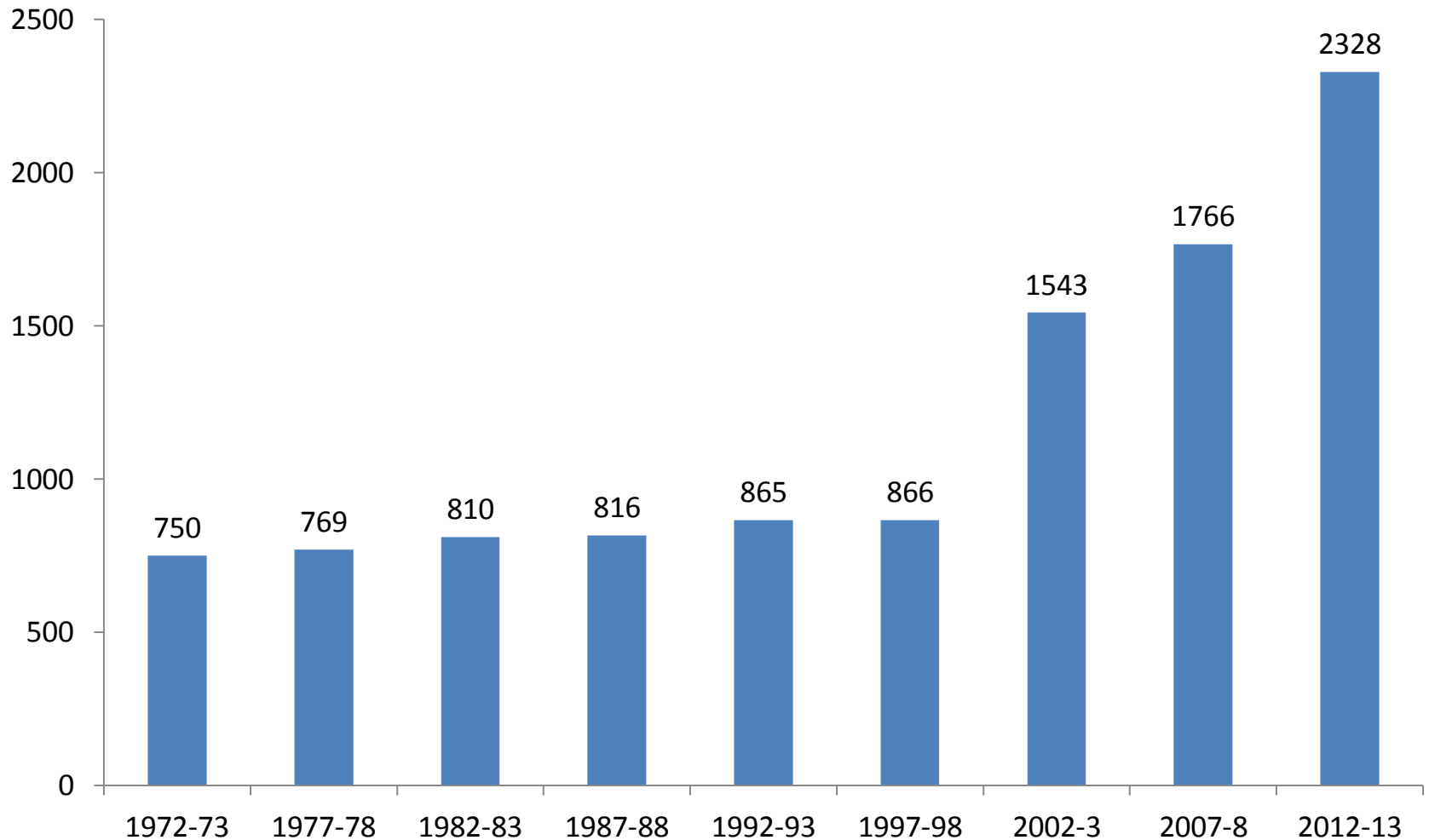
Growth Pangs ...

- This enlarged patient care component has gradually transformed AIIMS into a tertiary level teaching hospital with dual patient care roles viz. Referral & General Hospital
- There has been a paradigm shift in the mandate of AIIMS from primarily Medical Education & Research to Patient Care.
- AIIMS has gone through many adaptive responses to become one of the largest public sector hospitals in the country, from nearly 750 beds in 1970s to 2,328 beds now

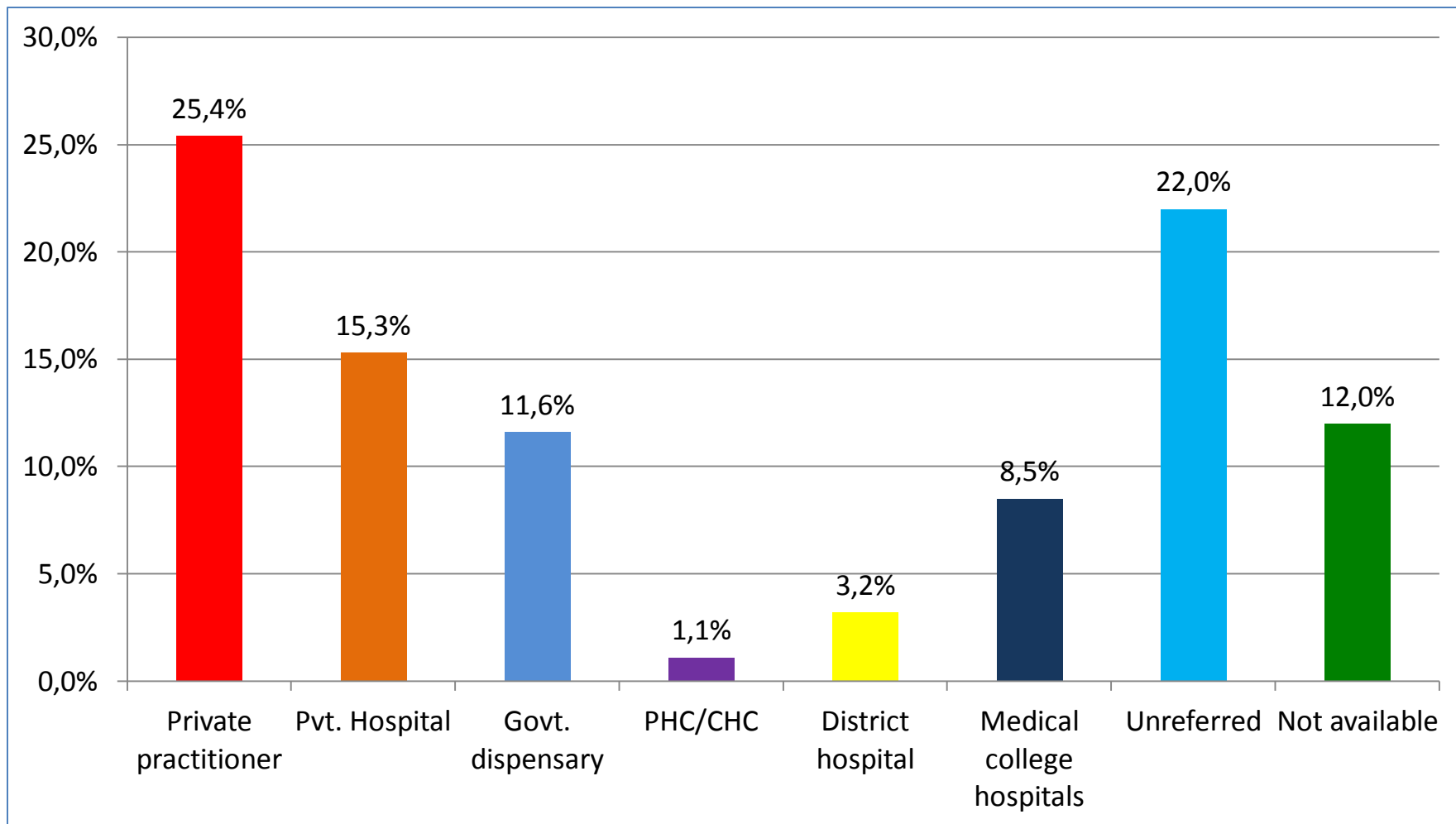
AIIMS Hospital & Specialty Centres

Centre	No. of beds
Main hospital	1052
Cardiothoracic and Neurosciences Centre	423
Dr. B.R. Ambedkar Institute Rotary Cancer Hospital	180
Dr. Rajender Prasad Centre for Ophthalmic Sciences	302
Jai Prakash Narain Apex Trauma Centre	203
Centre for Dental Education and Research	20
National Drug Dependence Treatment Centre	50
Comprehensive Rural Health Services Project	50
TOTAL Beds	2328

Rise in bed compliment at AIIMS (1972-73 to 2012-13)

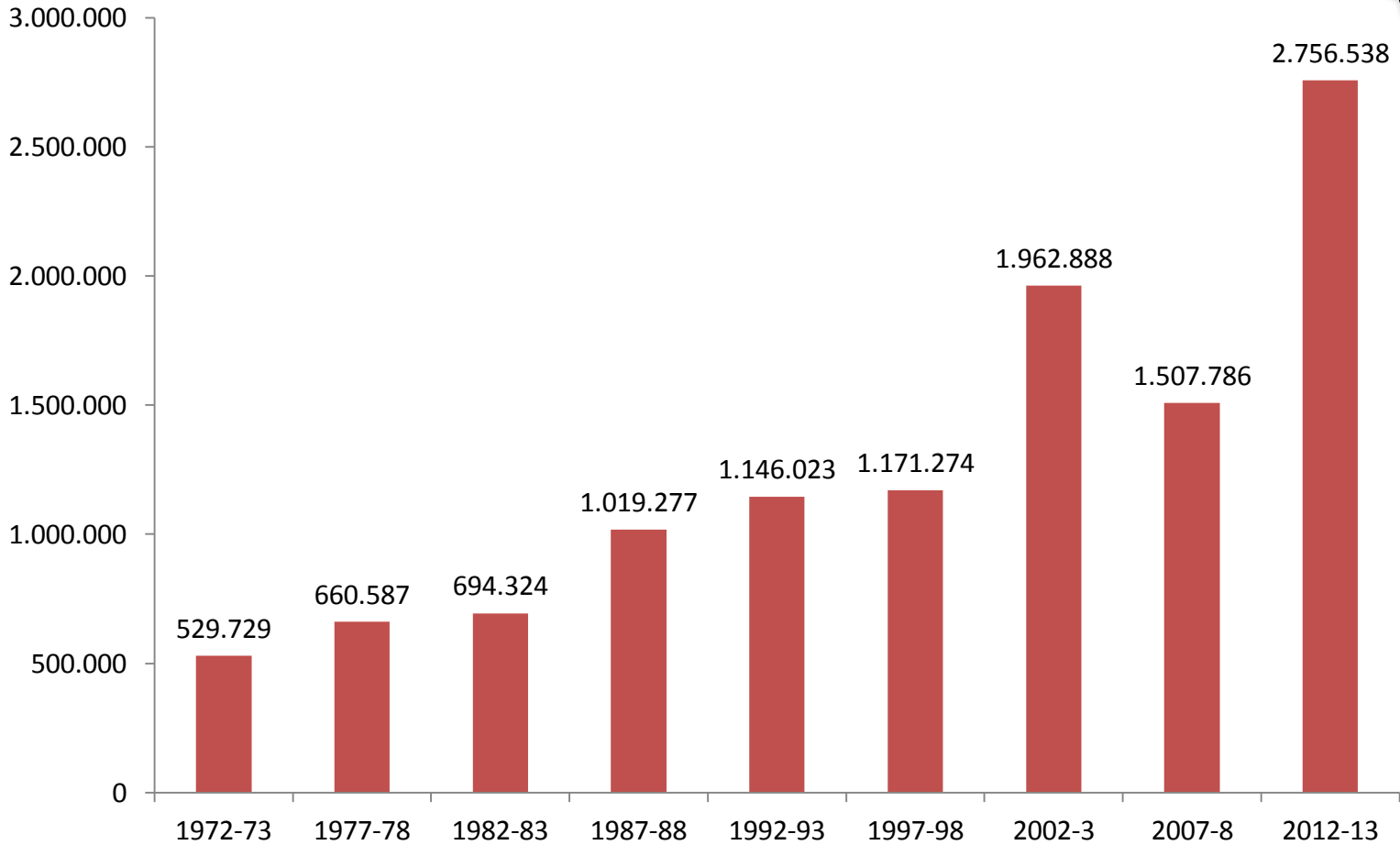


Referral source for AIIMS patients (2012)



OPD Patients

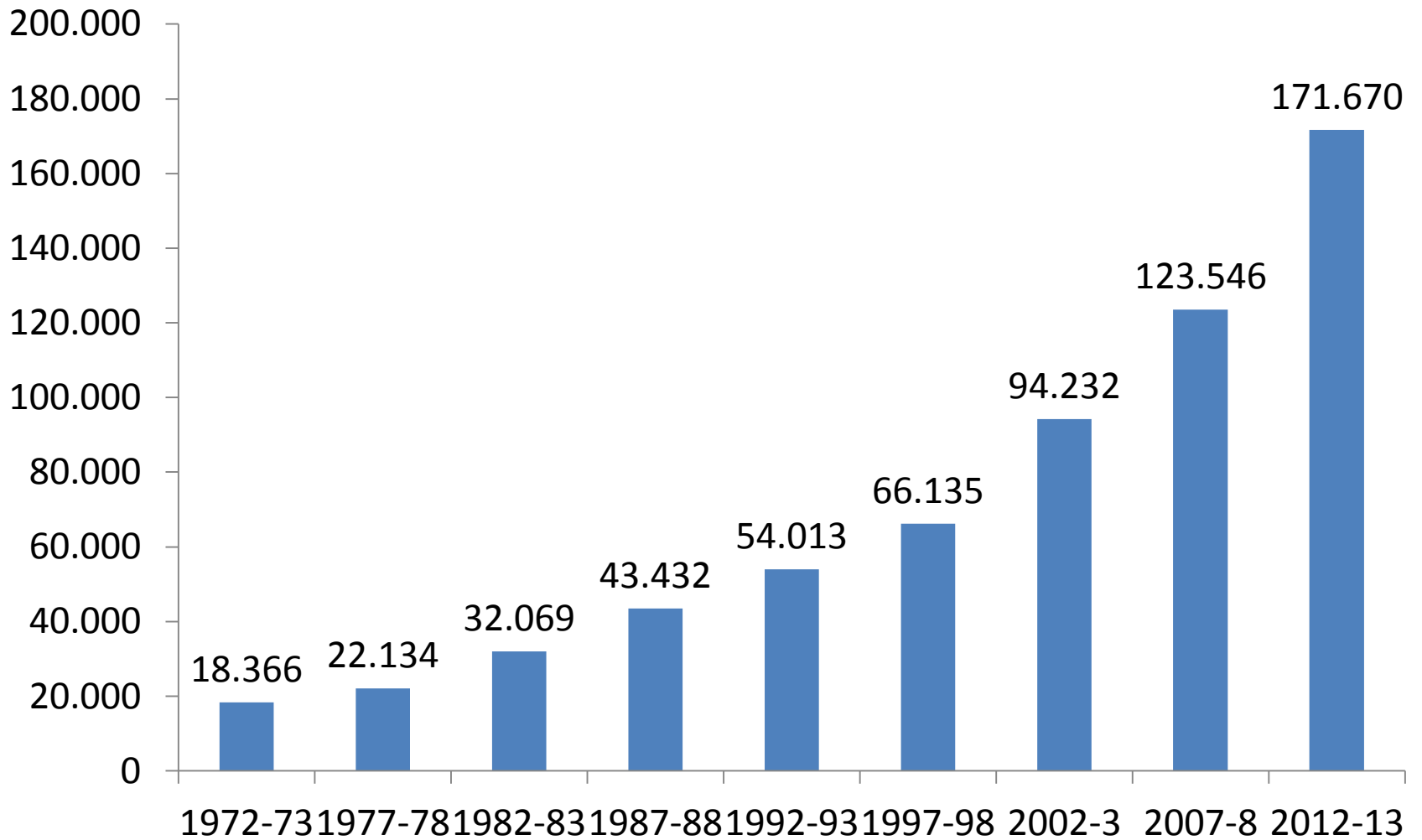
**2.7
Million**



Source: AIIMS Annual Reports

- In its 2009 Report the Valiathan Committee suggested the expansion of AIIMS OPD as only a temporary reprieve.
- It recommended that the OPDs of four other medical colleges in Delhi should also be expanded to draw away 8000 patients a day thus reducing pressure on AIIMS OPD.

Total number of Inpatients



Source: AIIMS Annual Reports

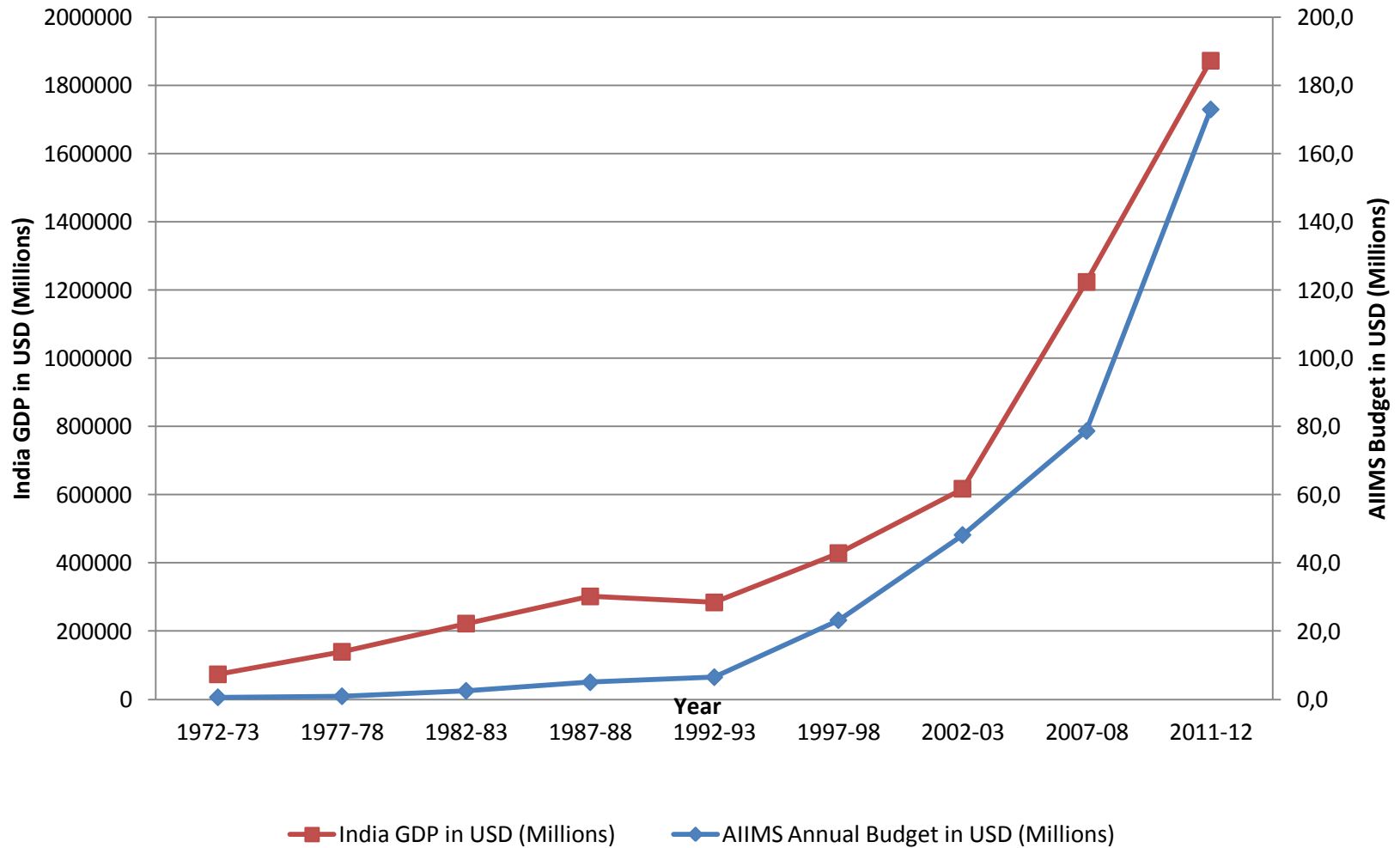
Financial Framework

- AllMS budget is allocated during the Union Budget by the Federal Govt.
- Also receives funds through
 - Intramural resources
 - Hospital receipts (revenue receipts)
 - Patient treatment accounts
 - Extramural resources (from Governmental and Non-Governmental agencies and individuals)
 - Grants for specific research projects
 - Donations
 - Poor patient and Patient treatment funds

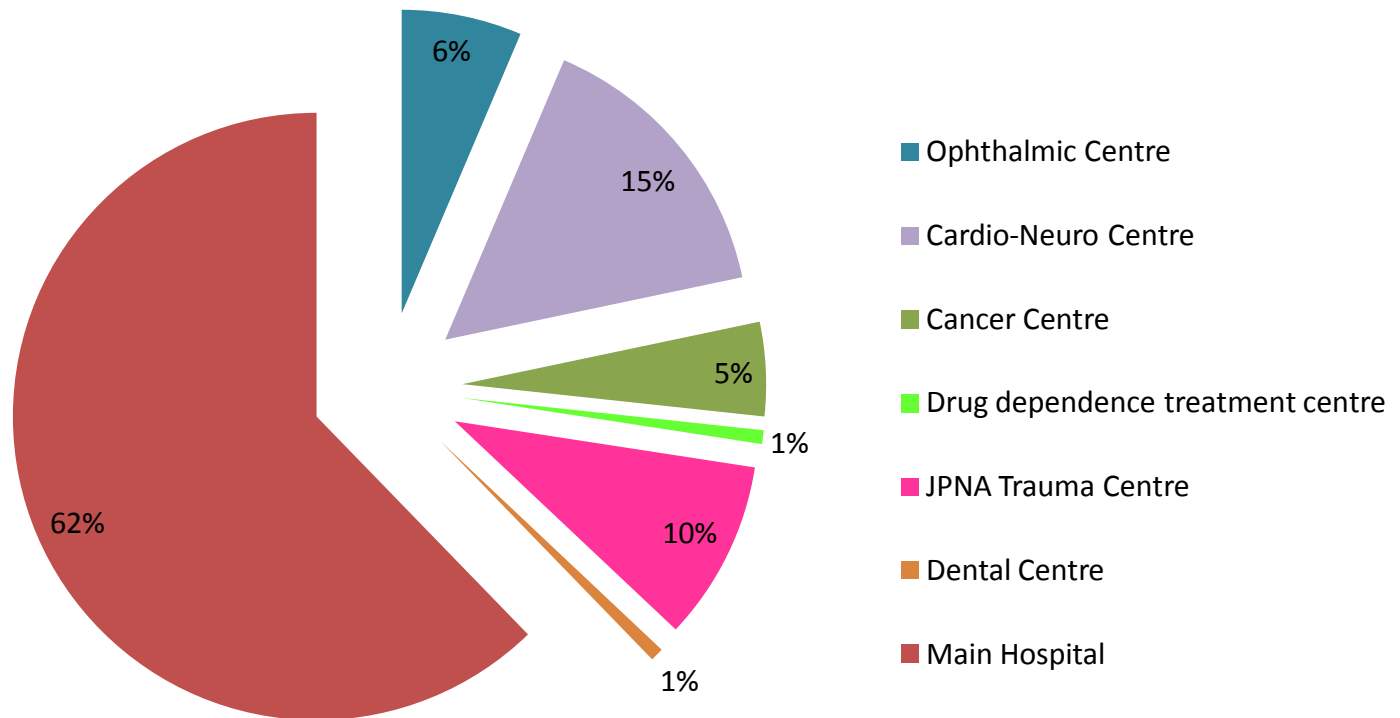
Financial Framework

- The annual budget of AIIMS from the Central Government has increased commensurate with patient load and healthcare technology development;
- The increase in allocation from \$0.6 million in 1972 to \$173 million in 2011-12 also mirrors India's GDP increase
- Notably, even on occasions when the Government of India's healthcare outlay has fallen, allocation to AIIMS continued to rise.

Growth of India's GDP and AIIMS Budget (1972-73 to 2011-12)



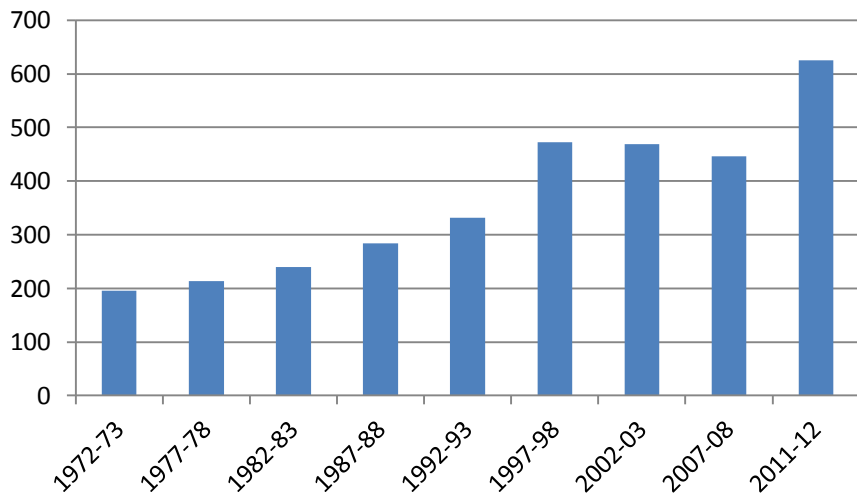
AIIMS Budgetary Allocation (2010-11)



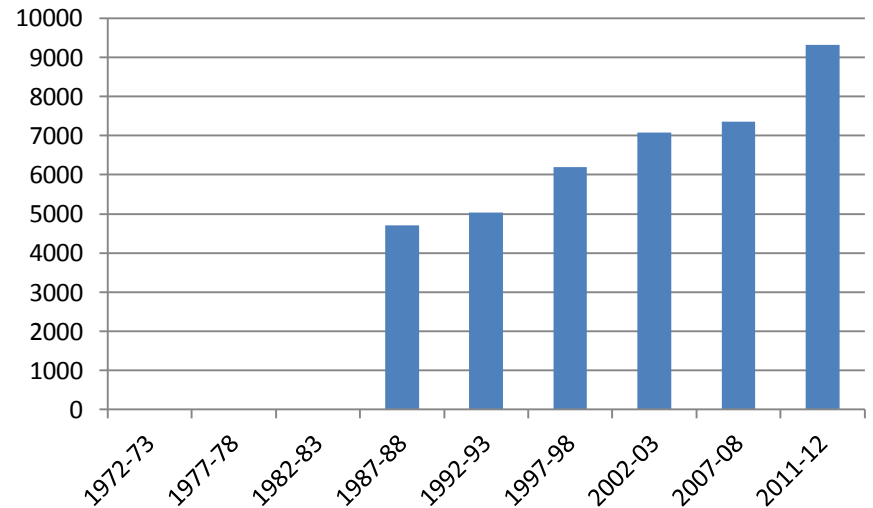
Staffing

- AIIMS plans its staffing requirements based on its patient load, teaching and research requirements etc, independent of the Medical Council of India's "Minimum Standard Requirements for Medical College".

Faculty



Non-Faculty



AIIMS performance

Average length of stay (days)

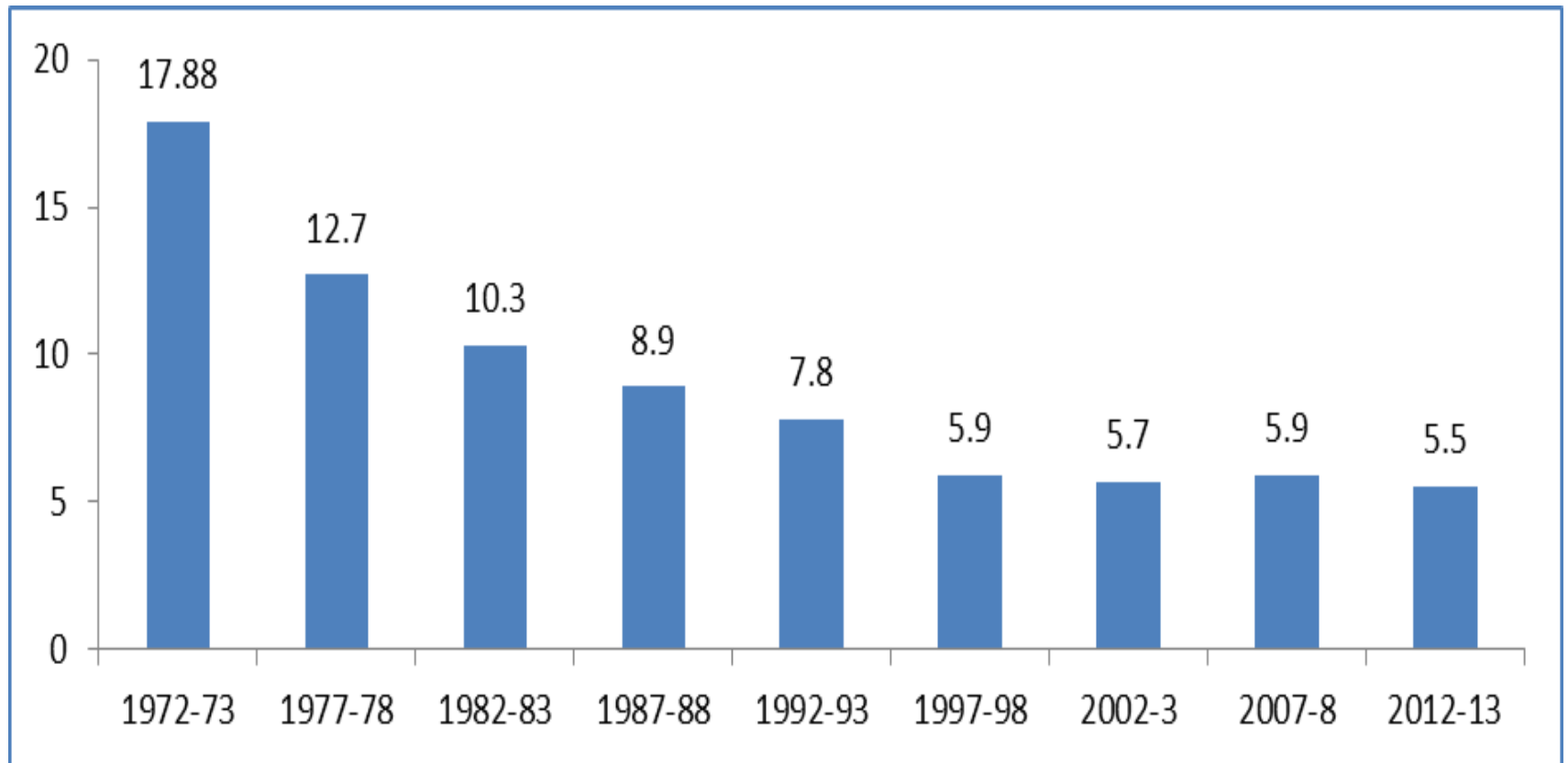
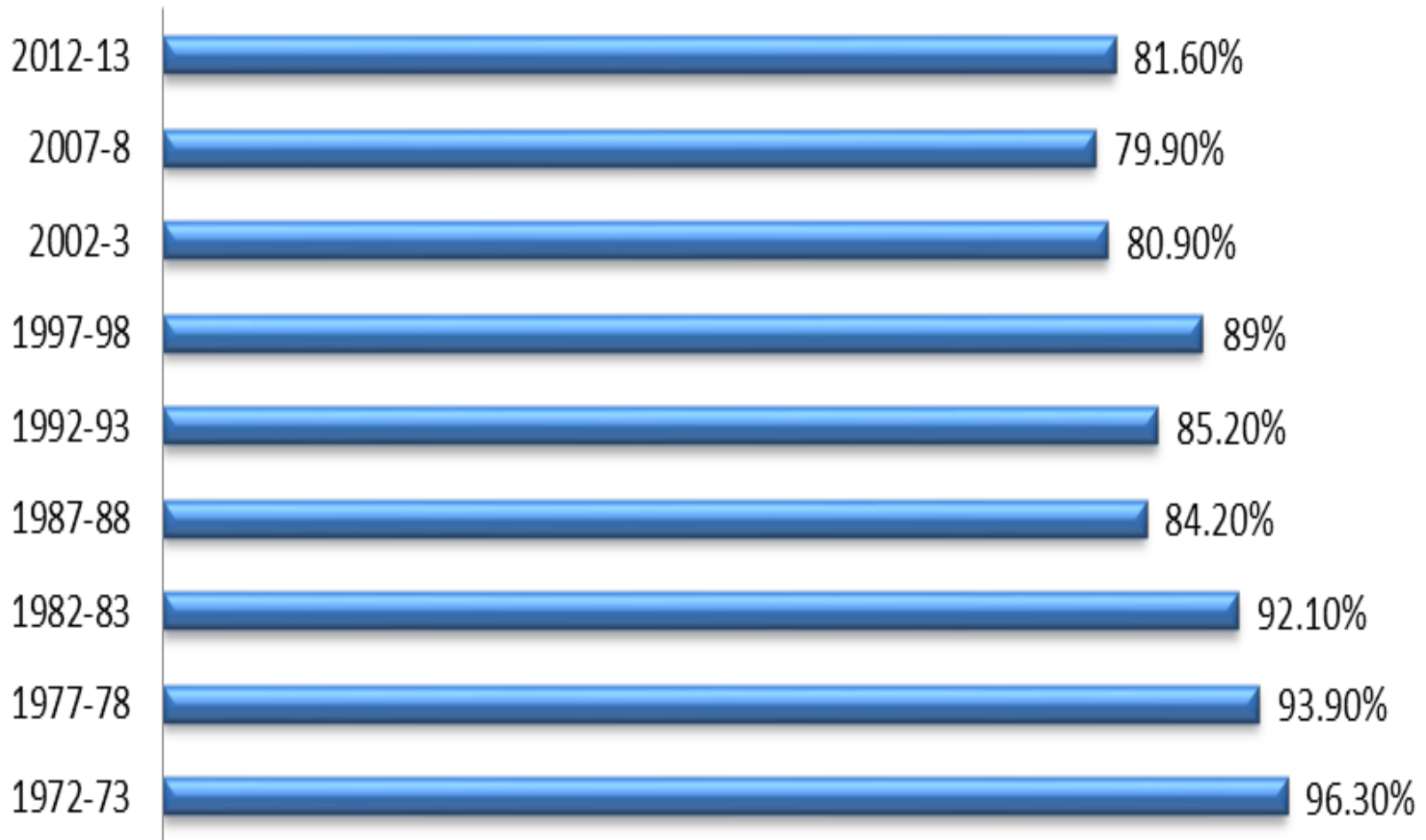
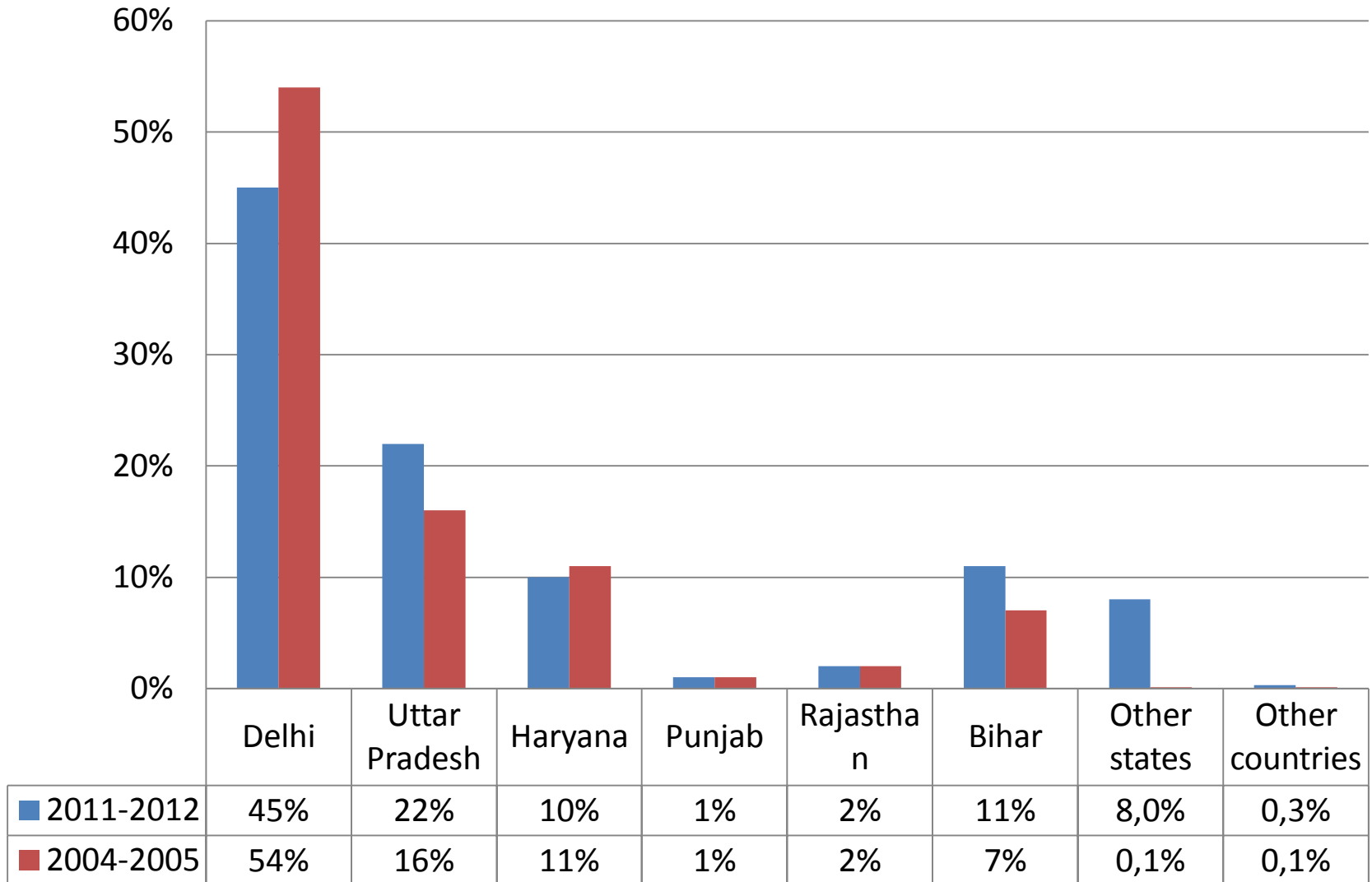


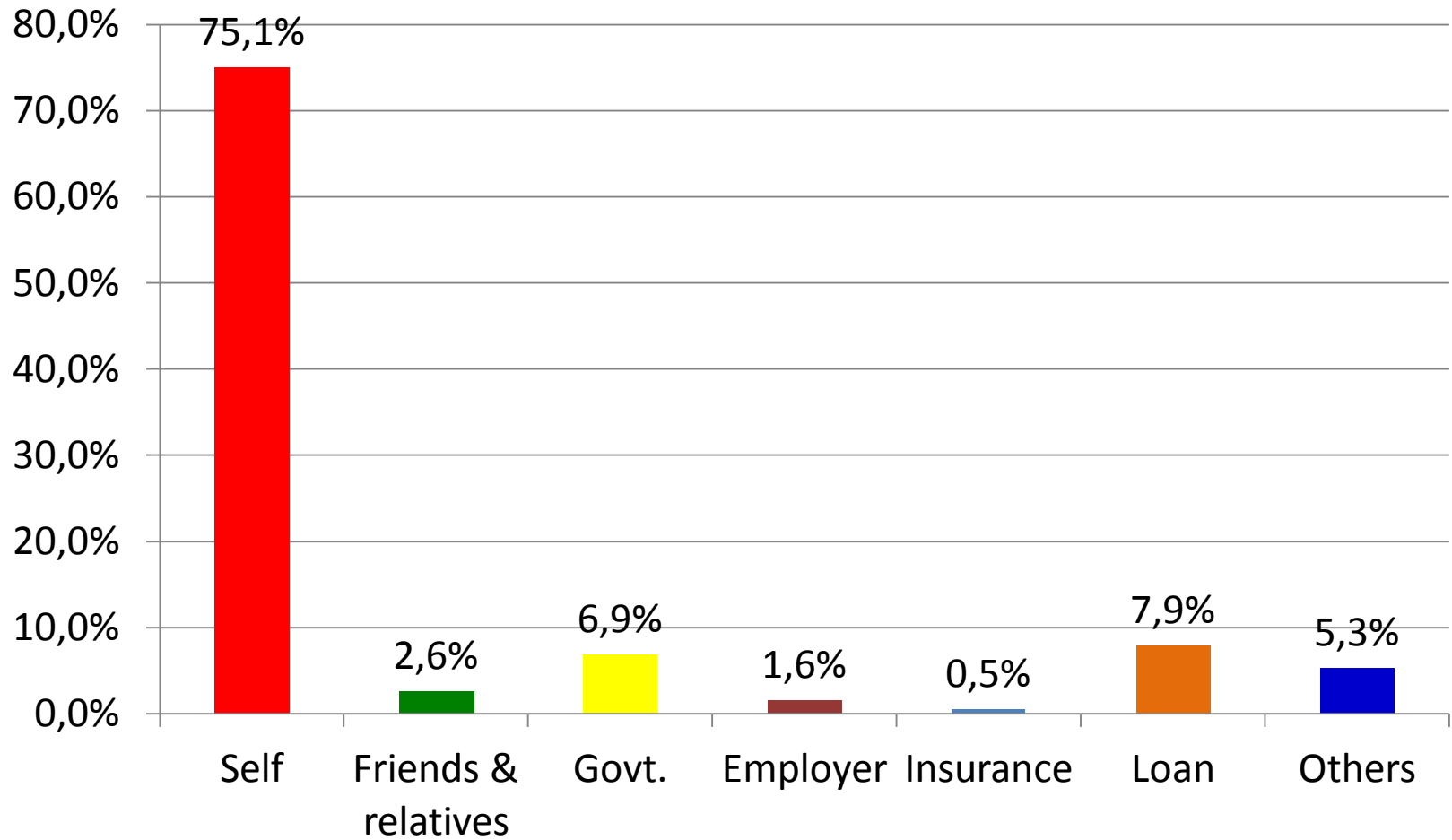
Figure 8: Average bed occupancy rate in AIIMS



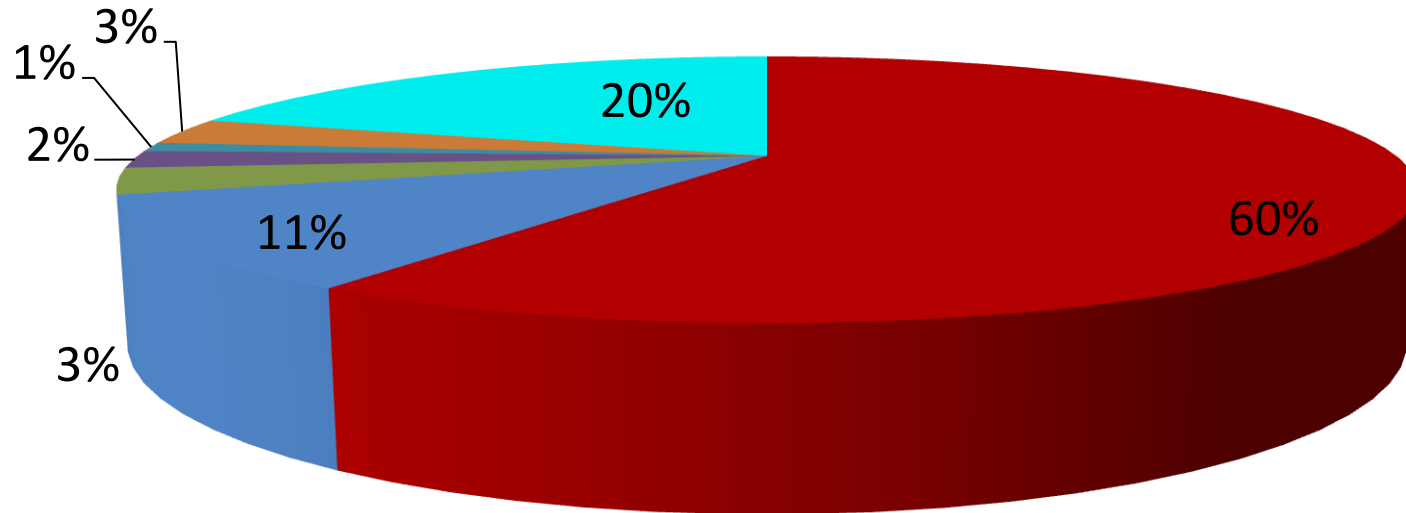
State of origin of patients admitted at AIIMS



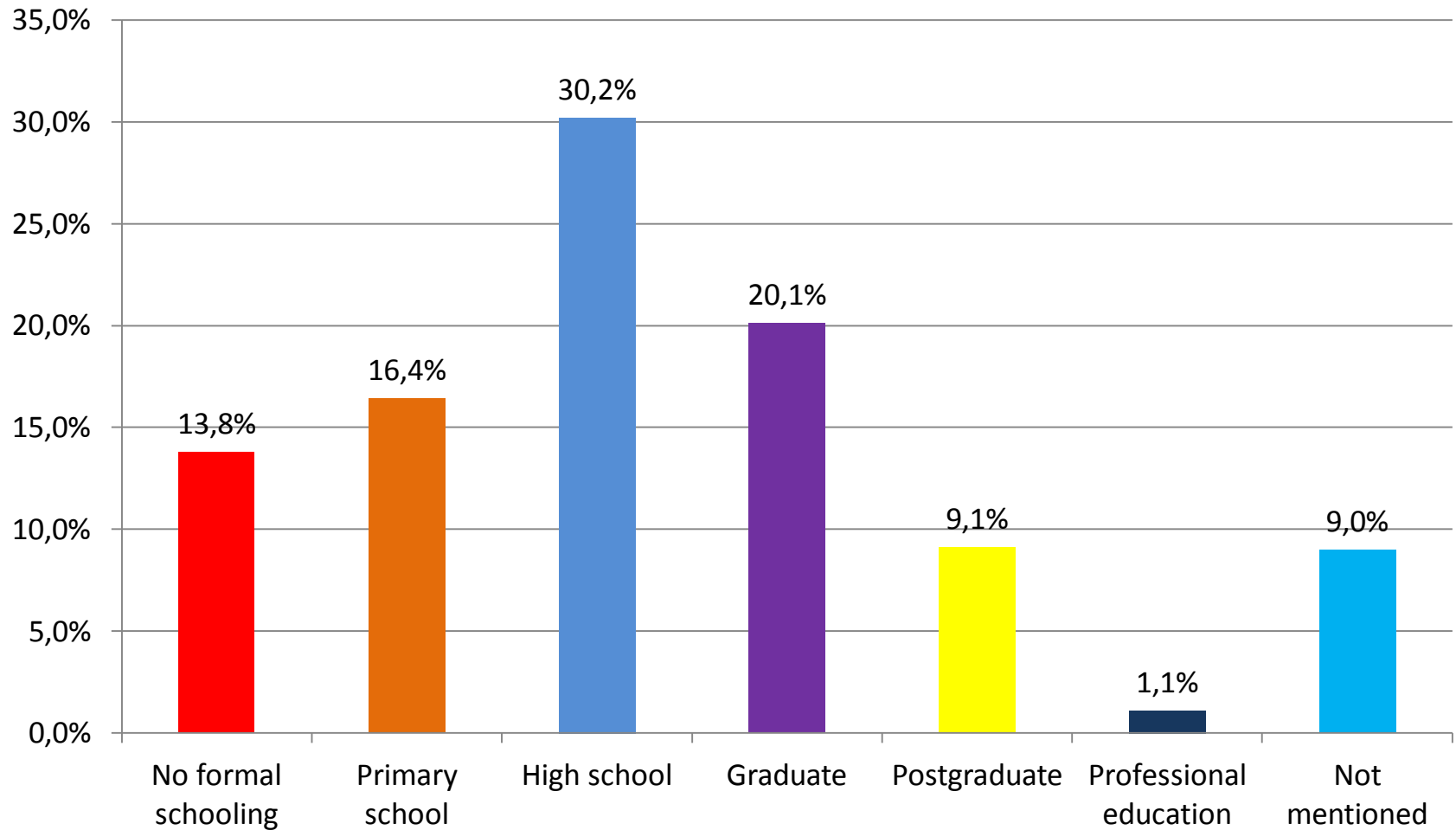
Source of payment for the patients admitted at AIIMS (2011)



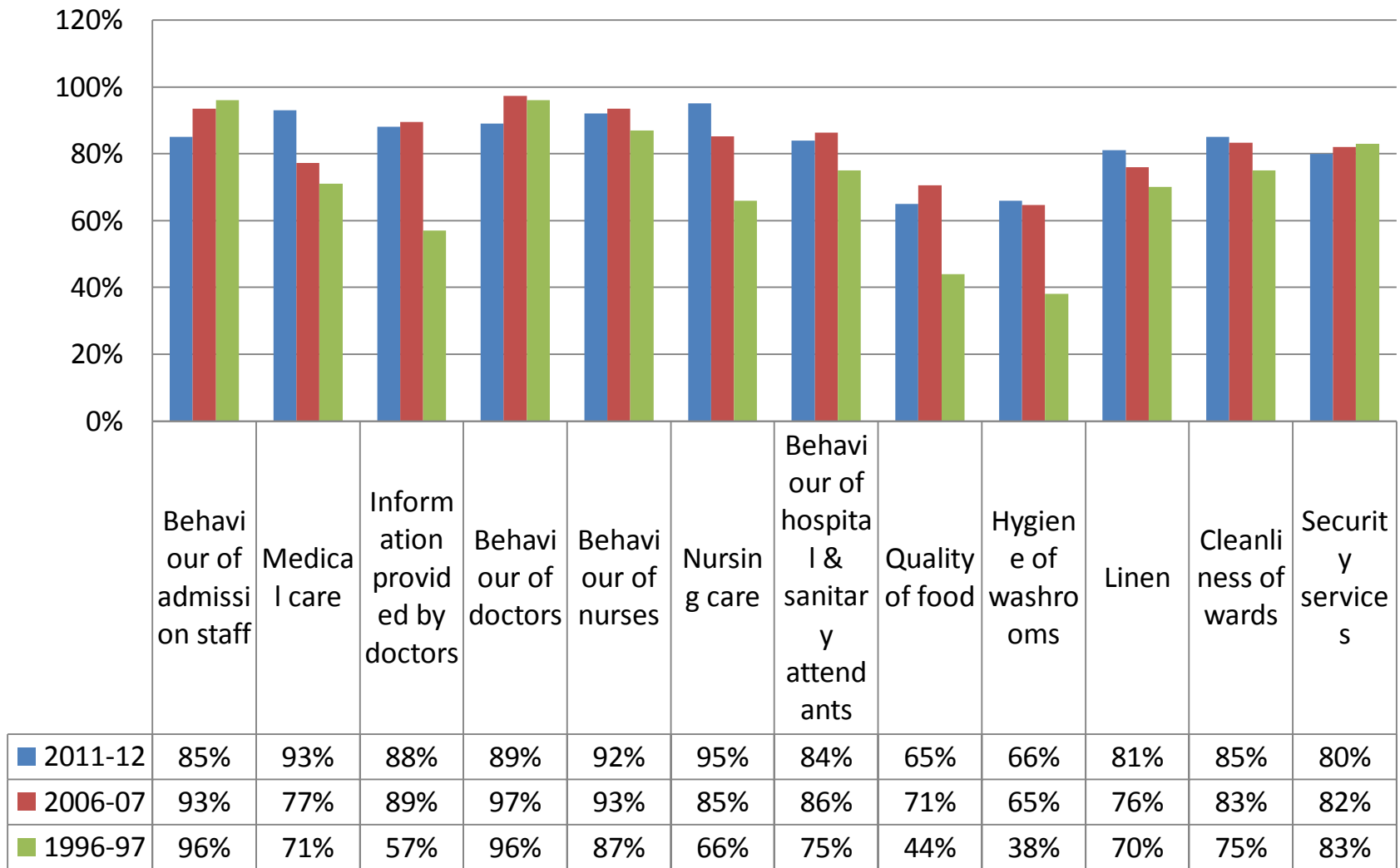
Family income per month of inpatients (USD)



Education status of patients admitted in AIIMS (2011)



Trends in patient satisfaction at AIIMS (1996-97 to 2011-12)



OPD patient load vis-à-vis maximum patient handling capacity in selected departments of AIIMS

Department	Max. Handling Capacity	Patient Load
Pediatrics	140	250
Surgery	77	215
Ophthalmology	288	650
Cardiology	286	650
Neurology	133	257
Neurosurgery	51	167

Cost of Services at AIIMS

- In-Patient Care costs approx \$ 38 /day
- Providing Diet to each patient costs \$ 2 /day
- General Surgical Procedures cost \$ 1,000
- ICU Care costs \$125/day
- Kidney Transplant costs approx \$ 3600
- Robotic Urology Surgical Procedures costs between \$ 1800 – 2500

Whereas patient in a general ward pays only \$ 0.6 per day which includes diet, medicines and other consumables..

Cardiac procedures

Procedure	Charges (in US dollars) at:				
	AIIMS	FORTIS ESCORTS	APOLLO HOSPITAL	MEDICITY	MAX HOSPITAL
Bypass Surgery	1200	5080	3900	6400	3400
Valve Replacement Surgery	1983	8080	6900	6500(includes single valve cost)	6700
Surgery for CHD (Hole in Heart)	1000	3780	2800	4000	1300
Angiography	80	320	255	300	207
Angioplasty	2216	4940	4600	2200 plus Stent cost	1300(Stent cost + Balloon + Guide wire)
Cardiac Cath	120	320	360	300	207

Neurosurgical procedures

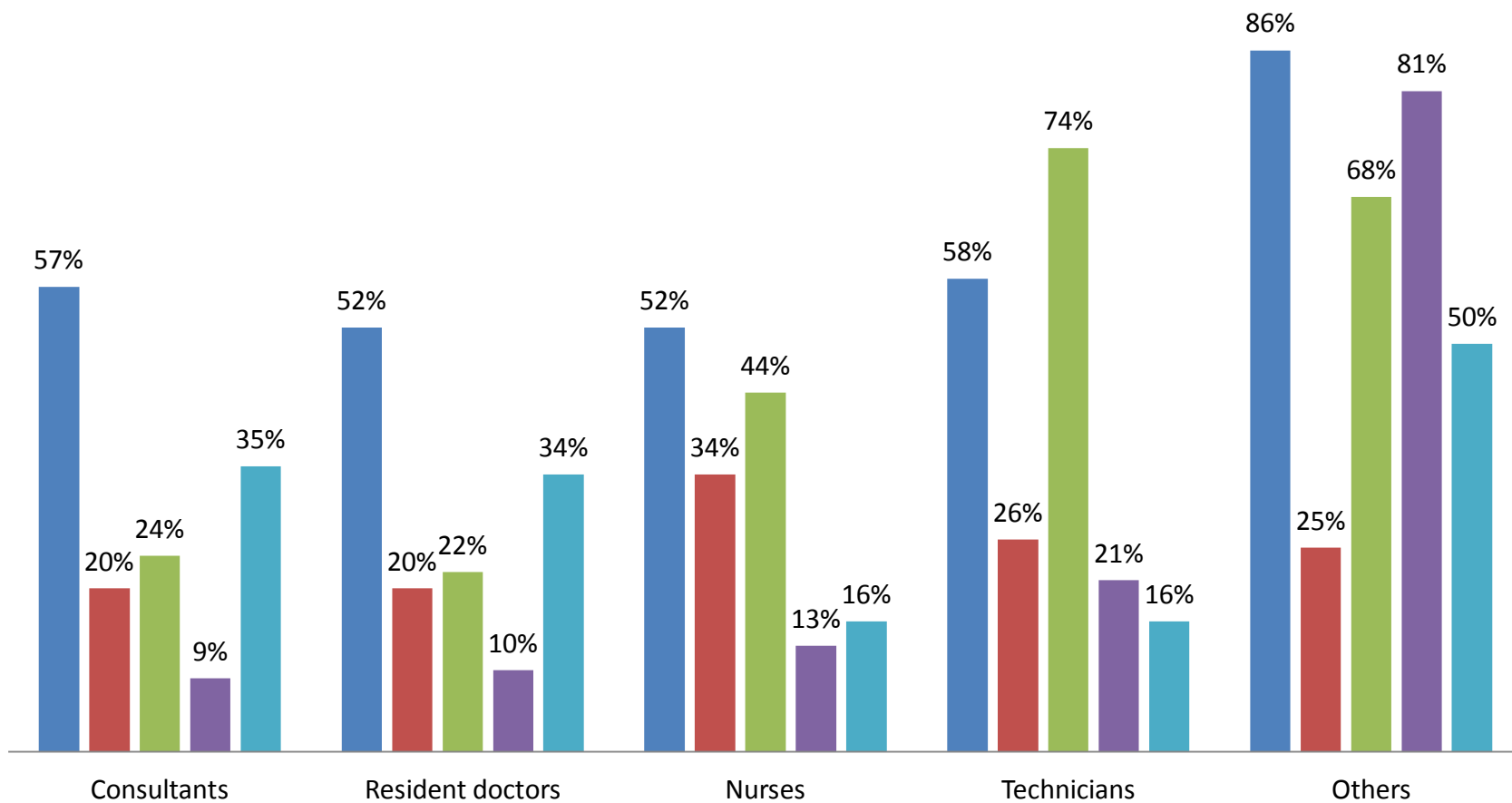
Procedure	Charges (in US dollars) at:				
	AIIMS	MAX SAKET	APOLLO	PARAS	MEDICITY
Burr hole	40	240	300	400	300
VP Shunt	100	1800	2136	1480	2146
Spine Surgery	300	1827	2734	1720	2000
Trans-sphenoidal surgery	300	1827	2734	2000	2000
Complex Craniotomy (incl Brain Tumor)	400				2000

Patient Centric Initiatives

- 24x7 pharmacy
 - offer 56% Discount
- Package System
- Pre-paid Cash Card System
- Inn's (Dharamshalas)
- Railway Reservation Counters
- Patient Assistance Services

Employee Satisfaction at AIIMS

■ Overall satisfaction ■ Work load ■ Work environment ■ Work content ■ Professional growth



Employee Focused Initiatives

- Employee Health Service
- Priority Counters at various service points
- Assured Promotion Scheme
- Outsourcing of Services
- Learning Resource Allowance
- Academic Leave
- Conference Grants

Lessons learnt and Conclusion

- India's "uniqueness" is also reflected in its health system
- While for example more resources, more information, more technology, more doctors, etc all have favored quality and choice, they have also made governance more complex, with an extraordinary development of the private sector in health and a change in the role played by some hospitals, AIIMS being a very important example.

Summary-analysis of factors related to AIIMS governance in 1969-70 and 2013

Components	AIIMS (1960-70)	AIIMS (2013)
Primary mandate	<p>Education, Research, & Patient care, in that order.</p> <p>Developing patterns of teaching in medical education to demonstrate a high standard of medical education to all other medical institutions in India.</p>	<p>The focus on education continues while the research component has increased manifold. Increase in patient load over the decades has resulted in allocation of a large proportion of resources for patient care.</p>
Patient care	Referral institution	Referral & general institution

Components	AIIMS (1960-70)	AIIMS (2013)
Organizational behavior	a) Centralized, close-knit and smaller institute b) Outsourcing not mandate	a) Partial decentralization due to emergence of various Centres& super-specialties. b) Beginning with security services in 1980s, many services including housekeeping have been outsourced. Accountability & responsibility frameworks have shifted. Interaction of permanent employees with outsource contractual staff is complex,
Autonomy	Largely autonomous as enshrined in AIIMS Act.	Complete autonomy not deemed desirable by successive national governments.
Accountability	Primarily to the Parliament through Ministry of Health and Family Welfare (MoHFW)	To parliament, MoHFW, various regulatory bodies and to the public at large through laws including Right to Information Act and Consumer Protection Act
Role of Government	Providing adequate funds. Minimal control	In addition to funding, exercising control over policy-making, performance auditing & accountability

Components	AIIMS (1960-70)	AIIMS (2013)
<p data-bbox="65 154 481 264"><i>Relation to external environment</i></p> <p data-bbox="65 287 481 401">Patients' perspective</p> <p data-bbox="65 482 481 725">Private hospitals & increased paying capacity of the consumer</p>	<p data-bbox="483 287 1012 401">Considered primarily for research & education</p> <p data-bbox="483 482 1012 796">Few private hospitals to match the quality of AIIMS, thereby having no direct effect on functioning of AIIMS</p>	<p data-bbox="1014 287 1812 401">An institute for rendering accessible and affordable, quality patient care.</p> <p data-bbox="1014 482 1812 1058">Affluent patients have, to an extent been largely weaned away to private hospitals. However, continued faith in AIIMS doctors result in second opinions being sought at AIIMS and sometimes, patients initially treated at private hospitals are shifted to AIIMS because of either untreatable complications or spiraling cost.</p> <p data-bbox="1014 1072 1812 1379">Yearly attrition rate of doctors in AIIMS is nearly 5.5%. The attrition of nurses is more due to better opportunities abroad (and probably not related to private sector boom in India)</p>

Components	AIIMS (1960-70)	AIIMS (2013)
Limiting factors for growth	Limited Funding, scarcity of trained manpower, paucity of technology, absence of global networking	Land, limitations in infrastructure, complex administrative processes, older system hindering modernization, growth of medical science, and attrition.
Patient demographics	Limited to patients from Delhi and referral cases from other parts of country.	Large influx of patients from Delhi, neighboring states and countries

Conclusions

- Over the years the pressures of an inadequate primary and secondary healthcare system in the country compounded by the absence of a structured referral system, has gradually led to the diversion of a substantial percentage of AIIMS resources into patient care services vis-a-vis education and research.
- AIIMS has gradually shifted from a 'referral' to a 'referral and general' role.

Conclusions

- The level of its autonomy has changed over time - the institute which was originally accountable to the Parliament only, now has a closer control exercised by the government; the accountability mechanisms have also become broader and more complex and other mechanisms such as people's charter and 'right to information' to ensure accountability have been introduced.

Conclusions

- There have been increasing demands for the revamp of the existing Autonomy Structure including a greater stakeholder participation in decision and policy making viz. adequate representation of the faculty, staff & students in the governing & institute body, insulation from political environment, performance-based appraisal, etc. to enable it to continue its ability to attract & retain the best talent from across the globe.

Conclusions

- The study of AIIMS cannot be separated from the health systems of India.
- Any attempt to develop health services in India should take into account how the service delivery institutions are interconnected with each other and how they are organized internally.
- The creation of new AIIMs across India is a challenge that offers many opportunities but needs to be handled carefully.

Conclusions

- ***Hospital performance is substantially influenced by its governance, in turn related to its external and internal (“managerial”) environment.***