



Public Health Care in India

**State Institute of Health and Family Welfare,
Jaipur**



Infrastructure H R & Performance Issues



Health & Disease



Disease

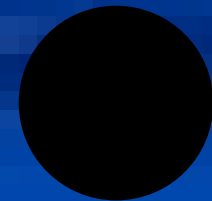
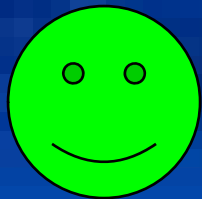


Health

Doctors,

Drugs, Diagnostics

Death



Disability



Health ?

State of complete physical mental and social and spiritual well-being and not merely the absence of disease or infirmity.



System ?

A set of interrelated and independent parts designed to achieve a set goals.

Health System ?

- Traditionally- based on capacity indicators & activities. (e.g. Programs, hospital beds, Physicians & Nurses)



Health System ?

Structure & functions of a Country's MoH having

- ✓ Resources,
- ✓ Management
- ✓ Organization
- ✓ Economic support and
- ✓ Service delivery as it's main component



Public Health

- What is public health?
- Why does it matter?
- How is the public health system structured?
- What does the public health system do for people?
- How is it done?



Core functions of Public Health

- Monitoring health situation
- Disease surveillance
- Health promotion
- Regulations
- Partnerships
- Planning & Policies
- HRD
- Reducing impact of emergencies on health



Why study Health Systems

- ✓ Provides perspective to understand self
- ✓ Prompts and tutors
- ✓ Observe & examine strategies for achieving equity under different situations
- ✓ Draw generalizations
- ✓ System's influence on health status

Determinants of Health System



- **Economic-**
 - Affordability?
 - Availability?
- **Political**
 - Priorities
 - Appropriateness?
 - Accessibility
 - Equity
- **Cultural**
 - Acceptability
 - Utilization
 - Participation

National Health Systems

Issues :

- Generalizations of performance & trend
- Political dimensions-Dynamism
- Forces deciding character
- Impact on Health
- Relevance to human rights



Forces asking for a change in System

- a. New emerging diseases,
- b. Changing disease profile,
- c. Technical and diagnostic advances,
- d. Longevity of life,
- e. Expectations of people,
- f. Subsidies and cross-subsidies
- g. Increasing non-plan expenditure,
- h. Competing priorities and
- i. Improving awareness among people, and
- J. Rising Cost of health care delivery



Problems:

- Indirectly related to health
 - Environment
 - Education
 - Empowerment
- Directly affecting Health
 - Diseases
 - Communicable
 - Non Communicable
 - New emerging
 - Fertility
 - Population
 - Growth rate
 - Total Fertility
 - Nutrition
 - Malnutrition
 - Obesity



Problems–Why

- Access
- Availability
- Utilization



Policies:

- NHP-1983.....NHP-2002
- NPP-2000



NHP-1983

- Re-orientation of Medical education
- Re-structuring and Re-organizing the then existing health care services
- Population stabilization
- Re-orientation of existing health personnel
- Role of practitioners of ISM in Health care delivery
- Goals -
 - Achievement?
 - CDR & Life expectancy



NHP-2002

- Averages of health indices hide disparities
- large gap in facilities still persists
- shortfall in the number of SCs/PHCs/CHCs is of the order of 16 percent. (CHC-58%)
- 'Vertical' implementation structure -extremely expensive
- the rural health staff has become a vertical structure exclusively for the implementation of family welfare activities
- Low utilization- 20 % seeking OPD services, <45 percent seeking indoor treatment, go to public hospitals.



- Integrated disease control network
- Increase in postgraduate seats in Public Health & Family Medicine
- Decentralization-Role of LSG/ NGO
- Medical Grants commission
- legislation for regulating clinical establishments/medical institutions by 2003

Goals to be achieved by 2000–2015



Eradicate Polio and Yaws	2005
Eliminate Leprosy	2005
Eliminate Kalazar	2010
Eliminate Lymphatic Filariasis	2015
Achieve Zero level growth of HIV/AIDS	2007
Reduce Mortality by 50% on account of TB, Malaria and Other Vector and Water Borne diseases	2010
Reduce Prevalence of Blindness to 0.5%	2010
Reduce IMR to 30/1000 And MMR to 100/Lakh	2010
Increase utilization of public health facilities from current Level of <20 to >75%	2010
Establish an integrated system of surveillance, National Health	2005



Challenges

- Manpower- Number & Norms
- Rural / Urban differential
- Geographical divide across States
- S-E groups –accessibility/ reach
- Gaps between Policy & Action
- Health sector expenditure
- Newer Infections



Five year Plan	Period	Major areas addressed
I	1951-55	Infrastructure
II	1956-61	Industry
III	1961-66	Panchayat & Green Revolution
IV	1969-74	Expenditure , Agriculture
V	1974-79	Agriculture
VI	1980-85	Health , Technology
VII	1985-89	Poverty, Agriculture & Justice
VIII	1992-97	Pop., Agriculture , Poverty
IX	1997-02	Employment, Basic facilities
X	2002-07	HRD, Industry, Technology
XI	2007-12	Education, Health, Empowerment

Bhore Committee, 1946

PHCS : nodal points for Health care

Phased expansion

Prevention stressed

Population based



Constitutional commitment: Health: State subject



- Central List
 - International Health, Port Health Research
 - Technical & Scientific Education
- State List
 - All other Health issues
- Concurrent list
 - Epidemics



- Centralized planning ,Decentralized implementation
- Fiscal control of central Govt.
- Dictates States for Objectives & Priorities

Health –State subject ?

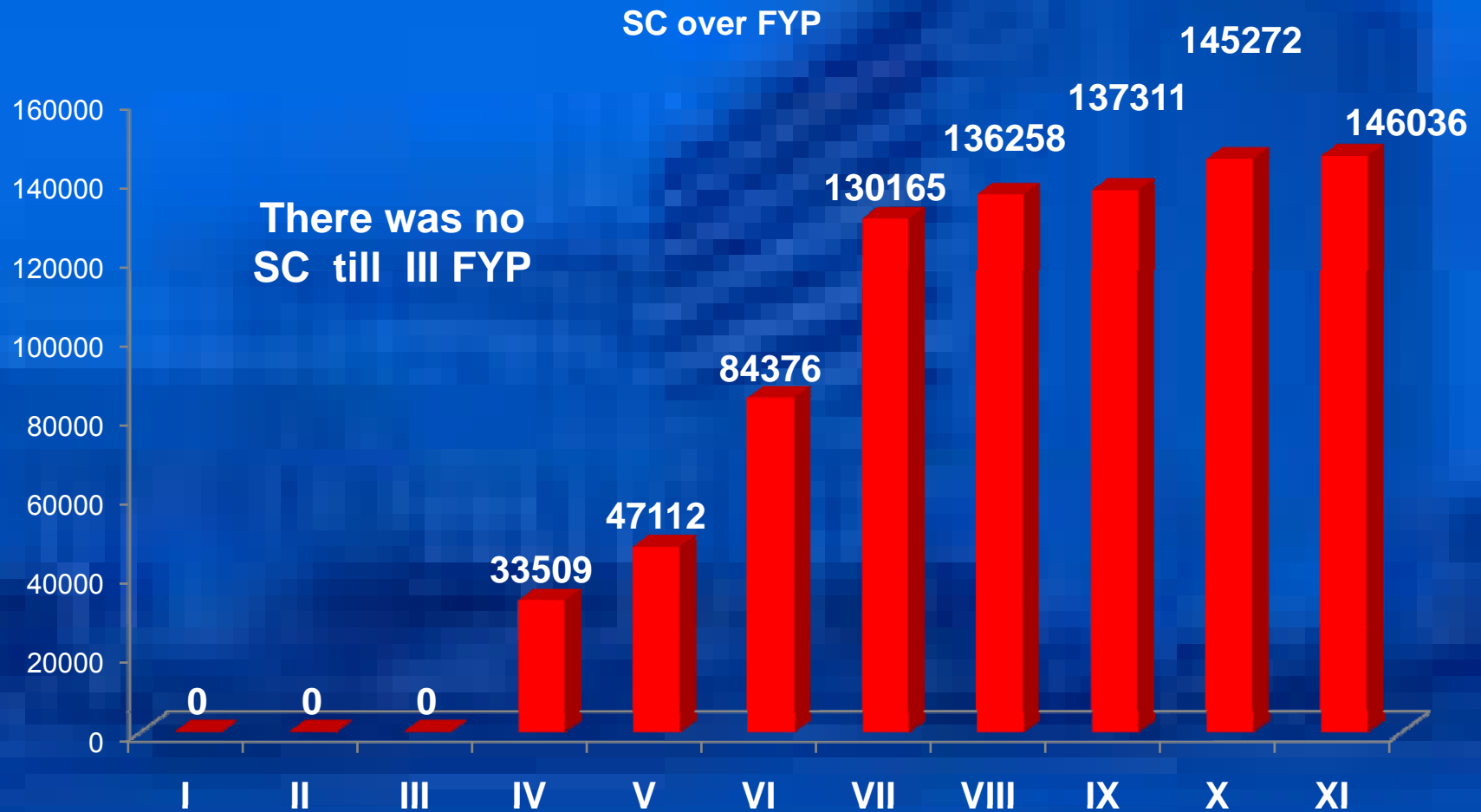


- NO Health Policy for 36 years
- Health left to Committees and Commissions
- Each Committee addressed to a single specific issue.
- Comprehension was missing
- Majority of recommendations of every committee were reiterations of Bhore Committee.
- Individual “Health” Programs developed in isolation based on situational exigency.
- Uni-purpose workers later baptized as Multi-purpose.
- Some Programs worked in complete isolation till 1980 (e.g. NTCP).
- Fragmented approach to Health



Health Care Infrastructure

Sub Center over FYP

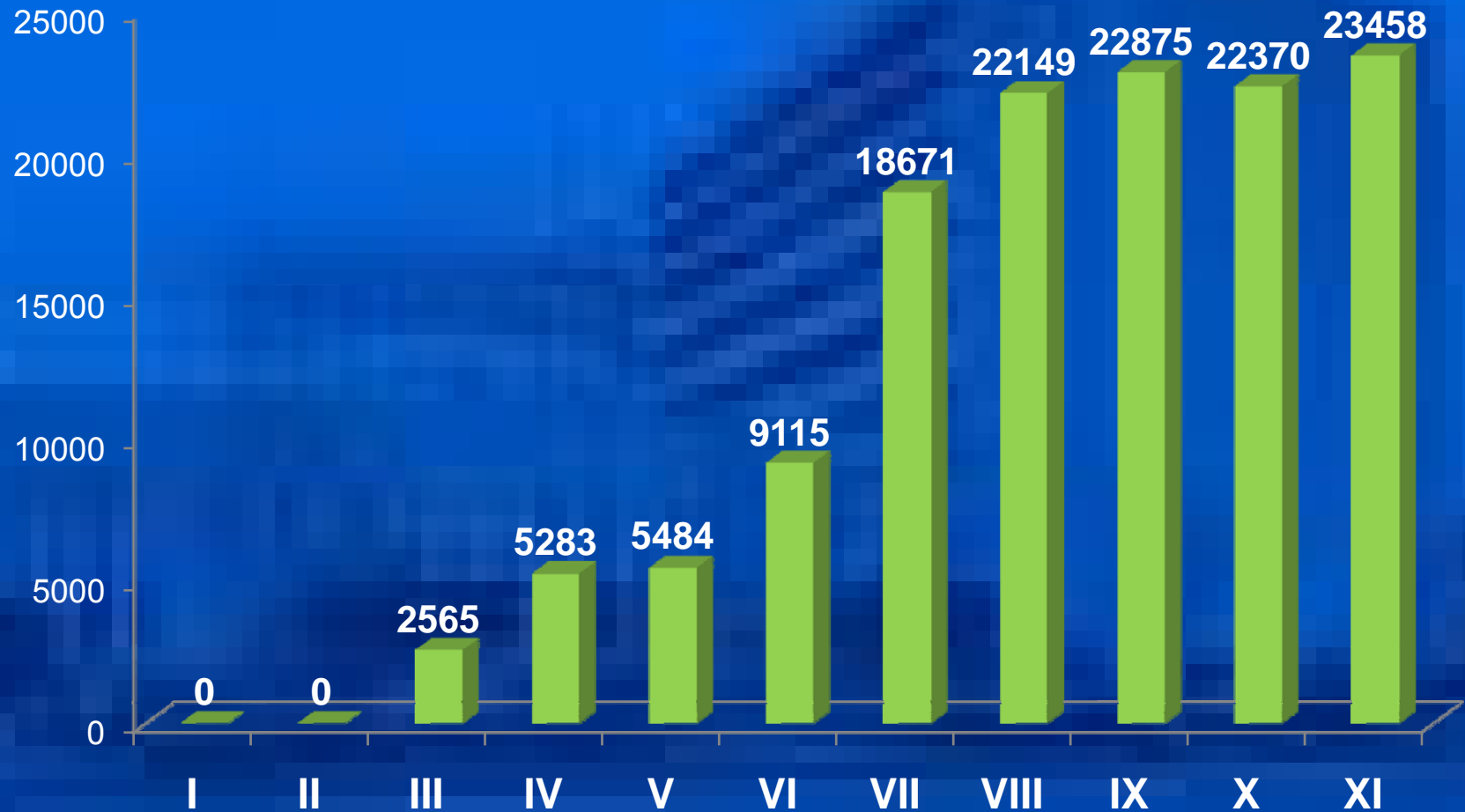


Source: CBHI NHP-2010



PHC over FYP

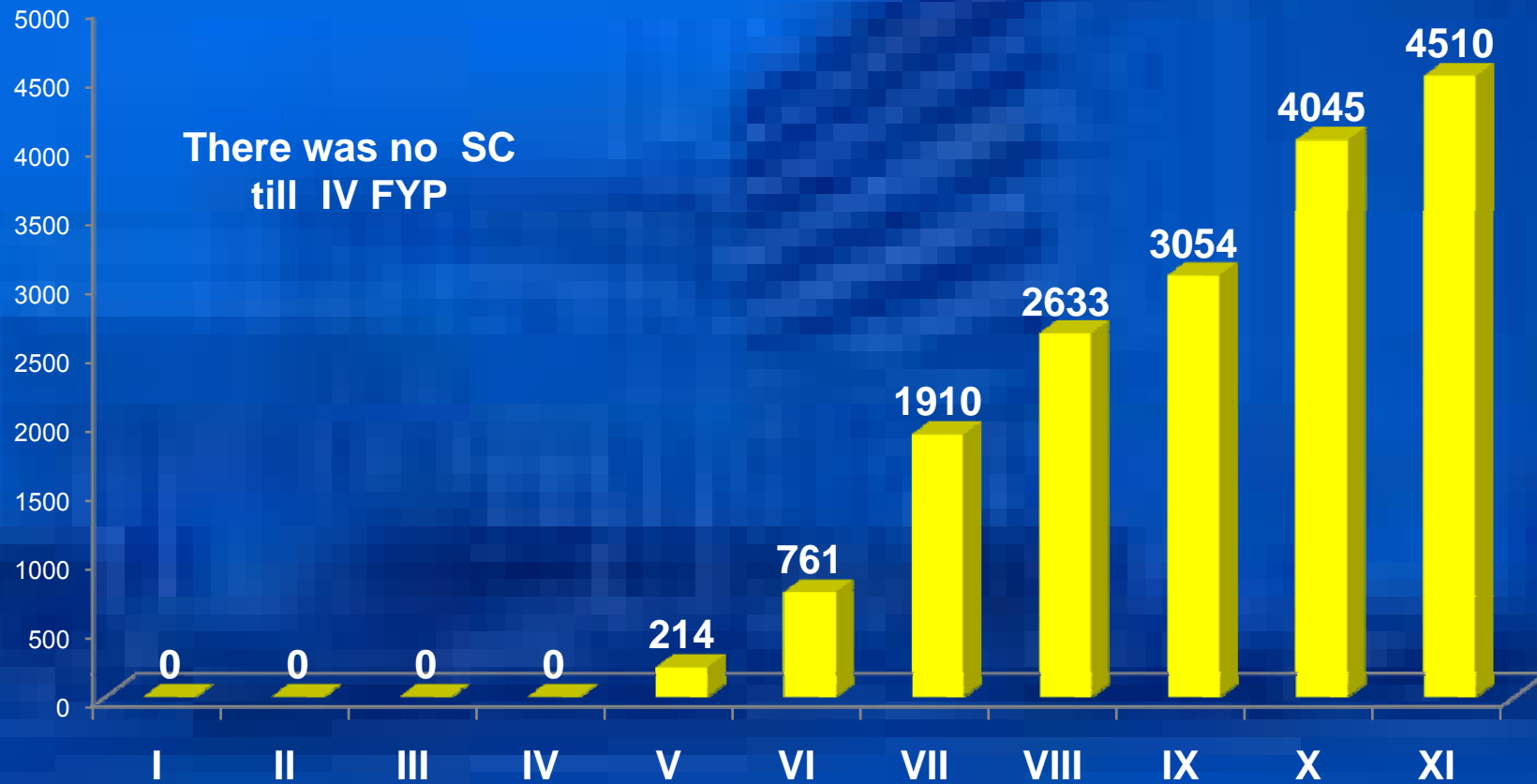
PHC over FYP



Source: CBHI,NHP-2010

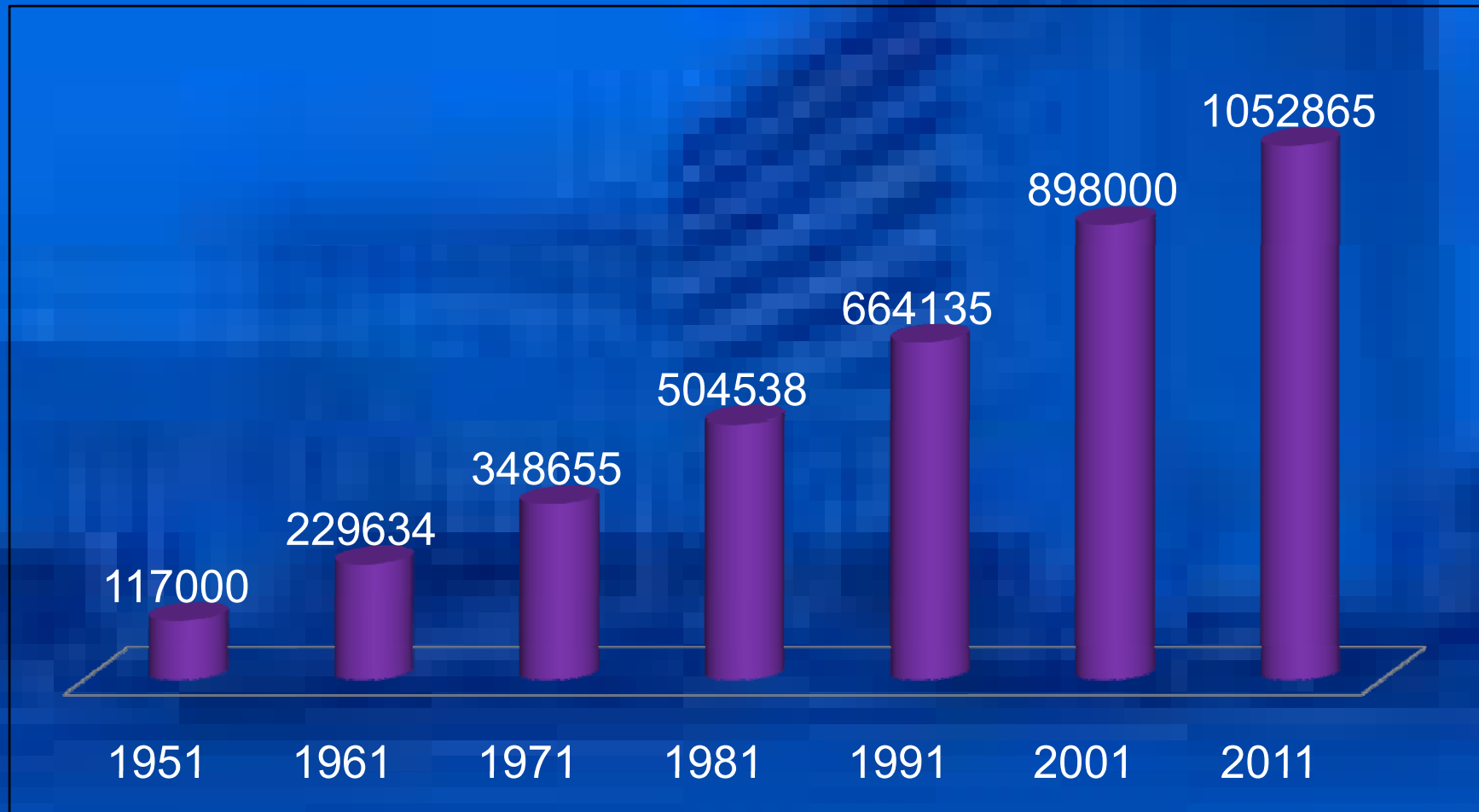
CHC over FYP

CHC over FYP



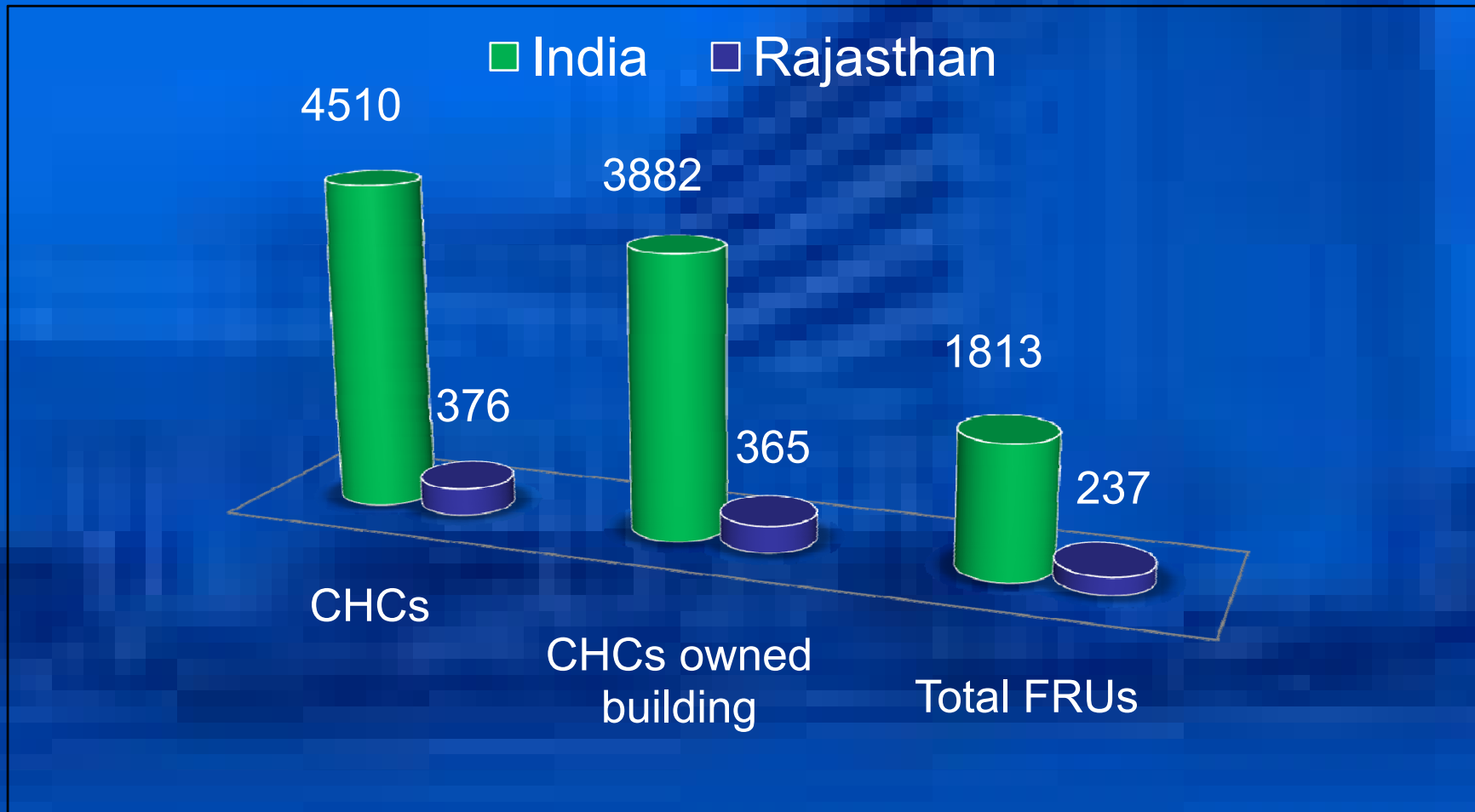
Source: CBHI,NHP-2010

Total Beds (India)



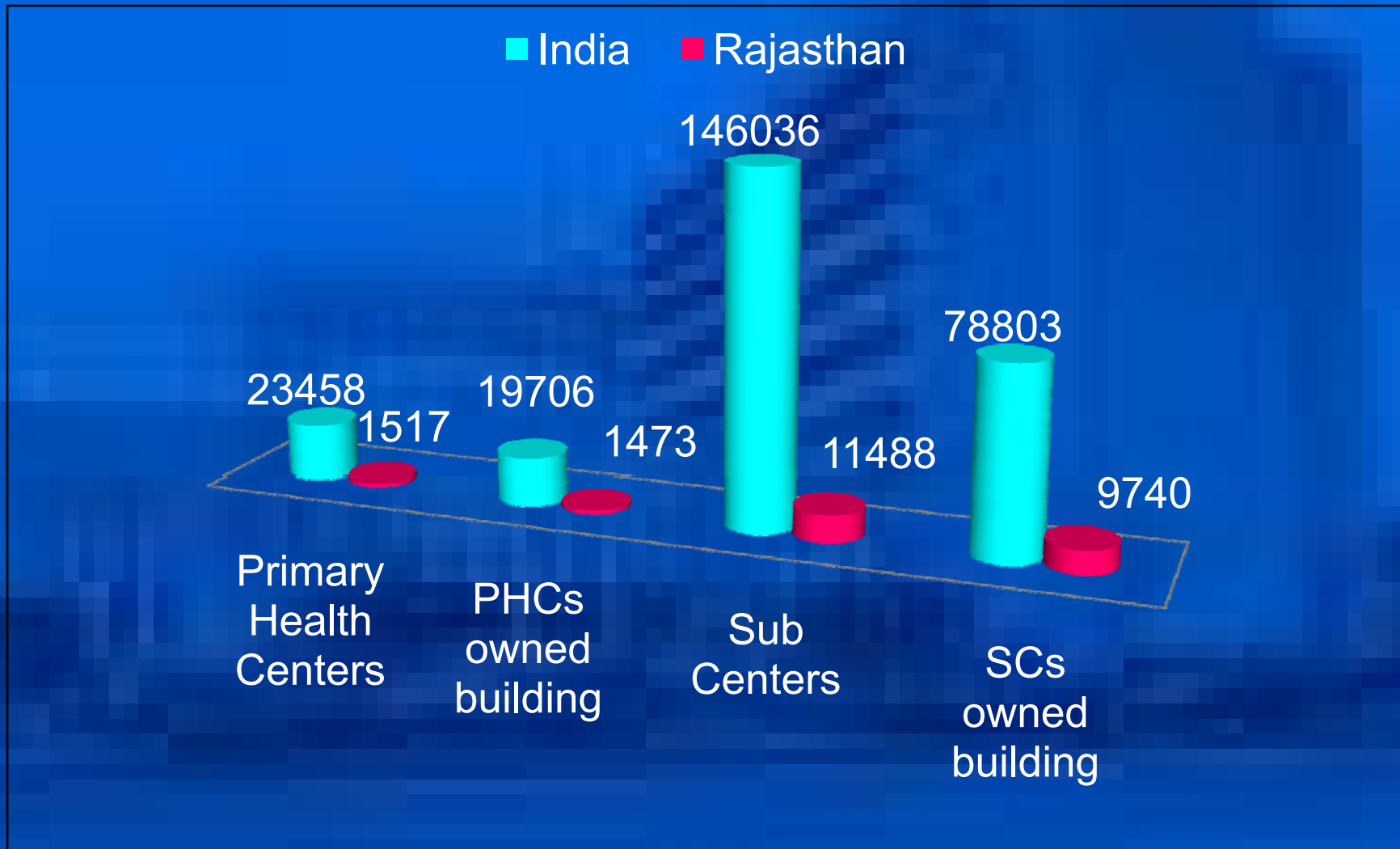
Source: CBHI,NHP-2010

Health Facilities 2011



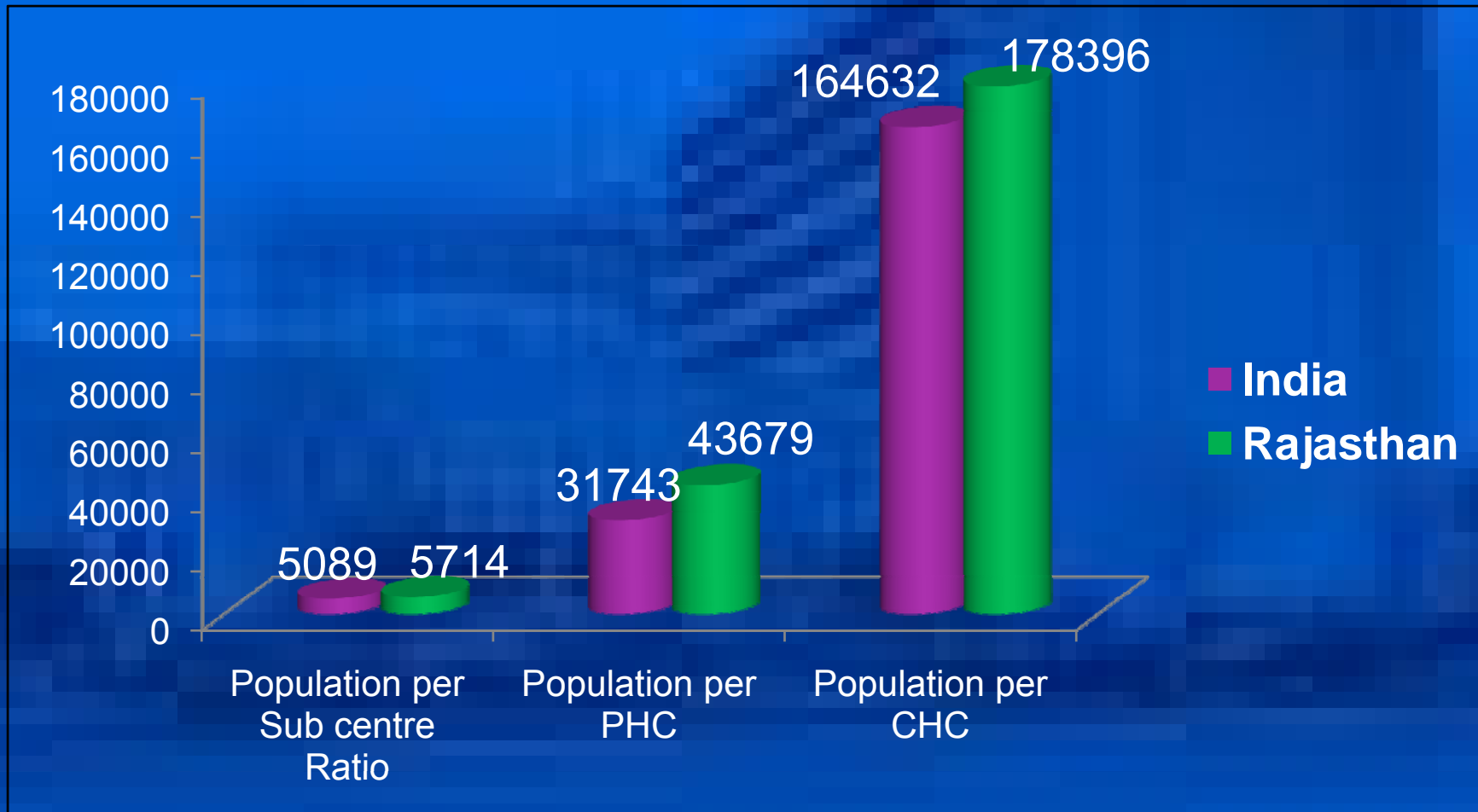
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Health Facilities 2011



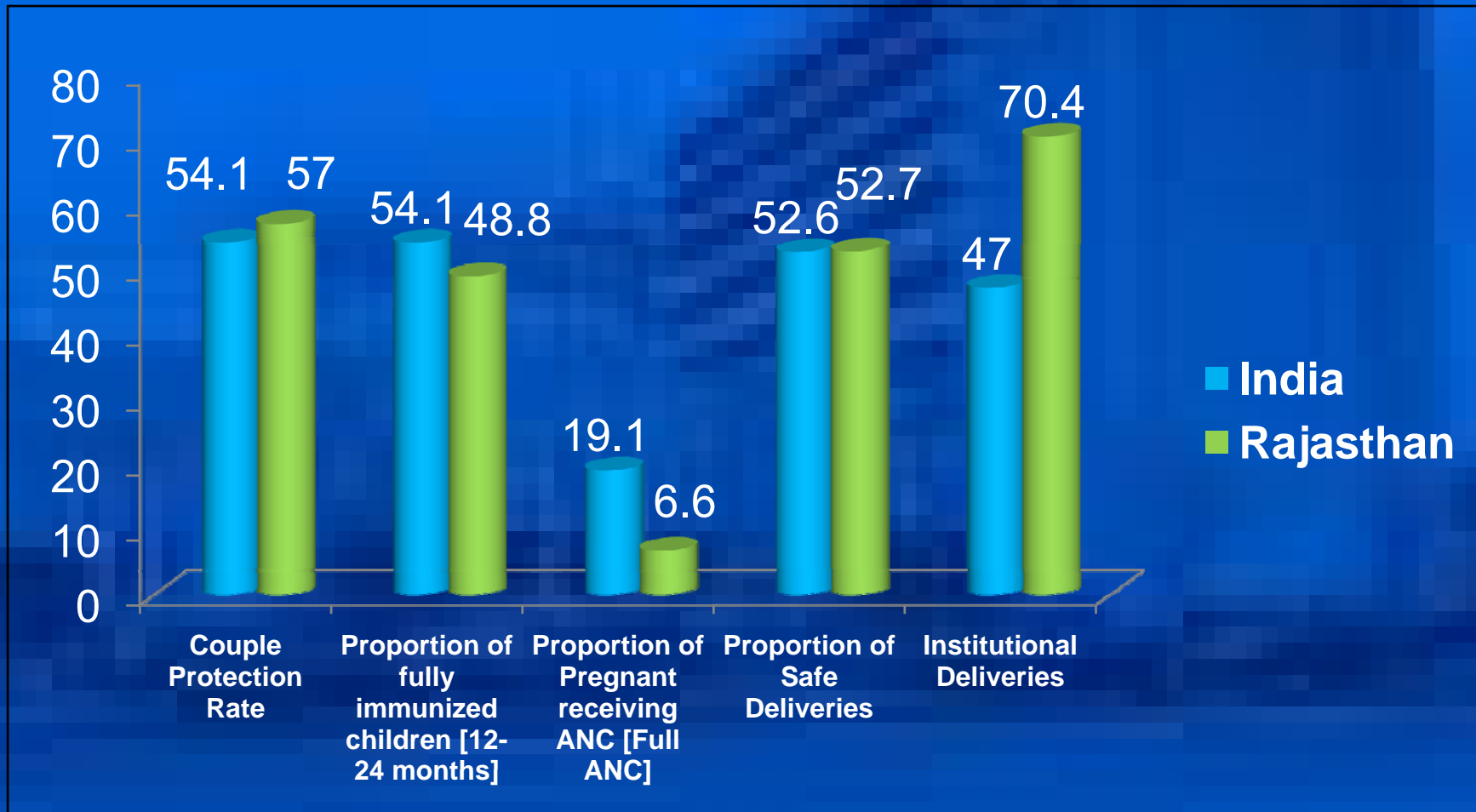
Source: CBHI,NHP-2010

Infrastructure Status



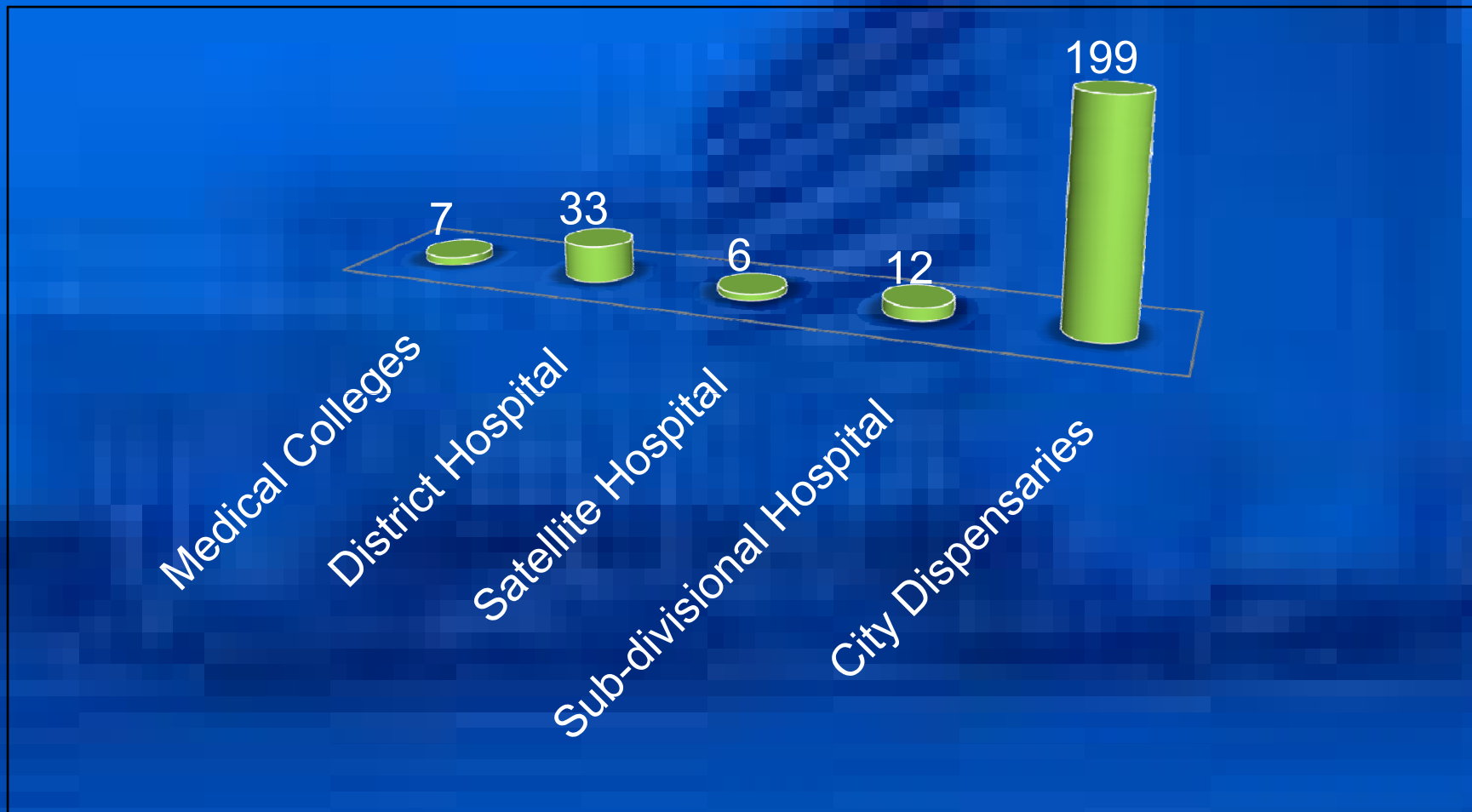
Source: DLHS-3

Healthcare Delivery Status



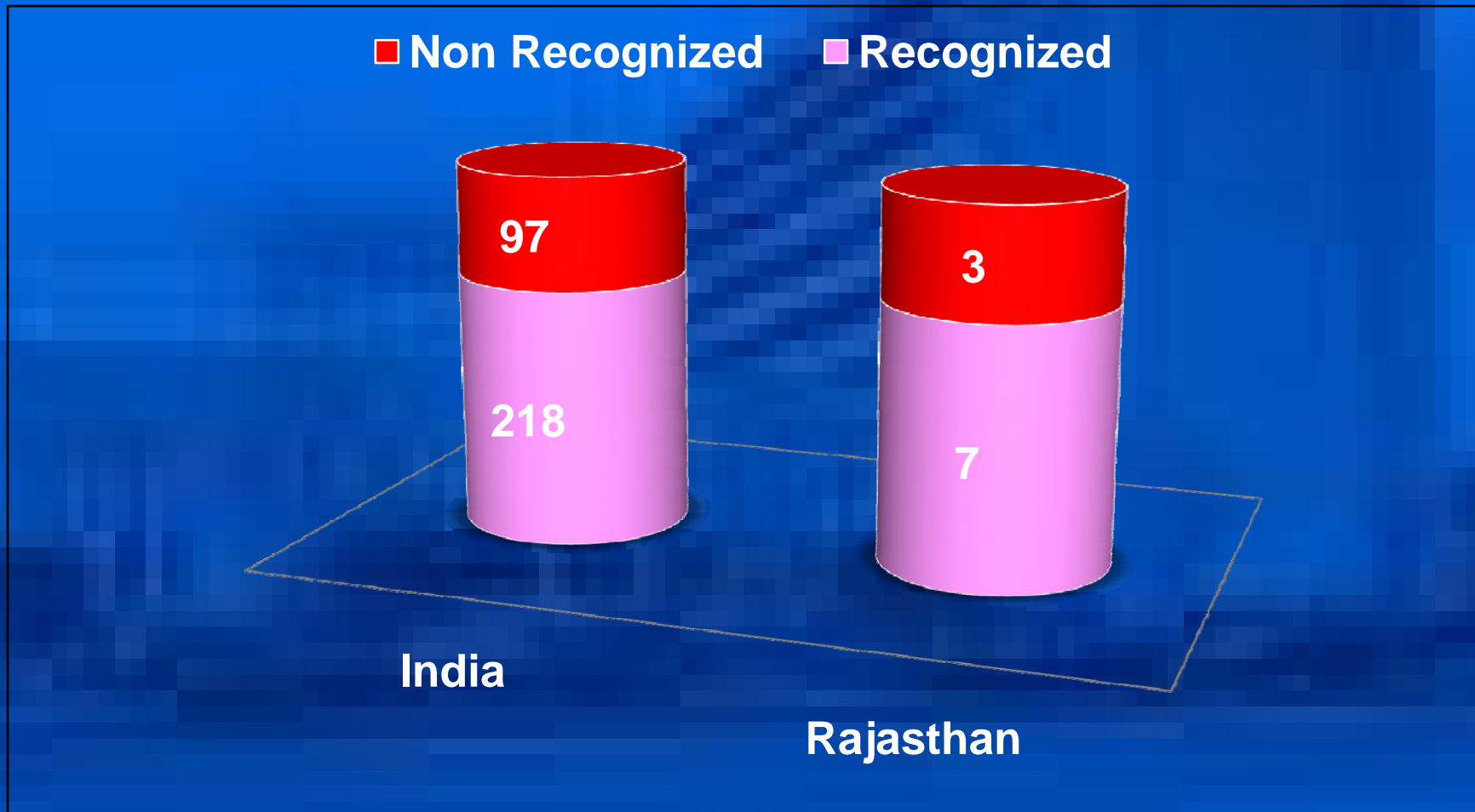
Source: DLHS-3

Health Care Infrastructure: Rajasthan (March, 2011)



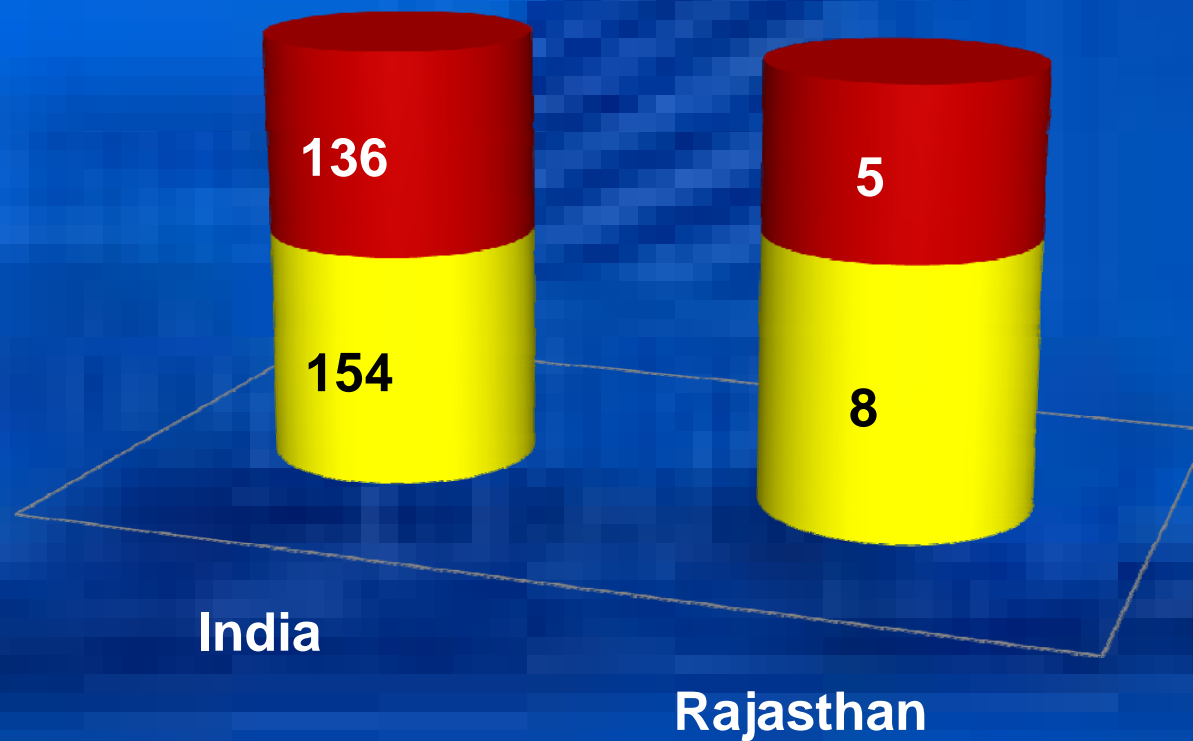
Source: CBHI,NHP-2010

Medical Colleges, 2011

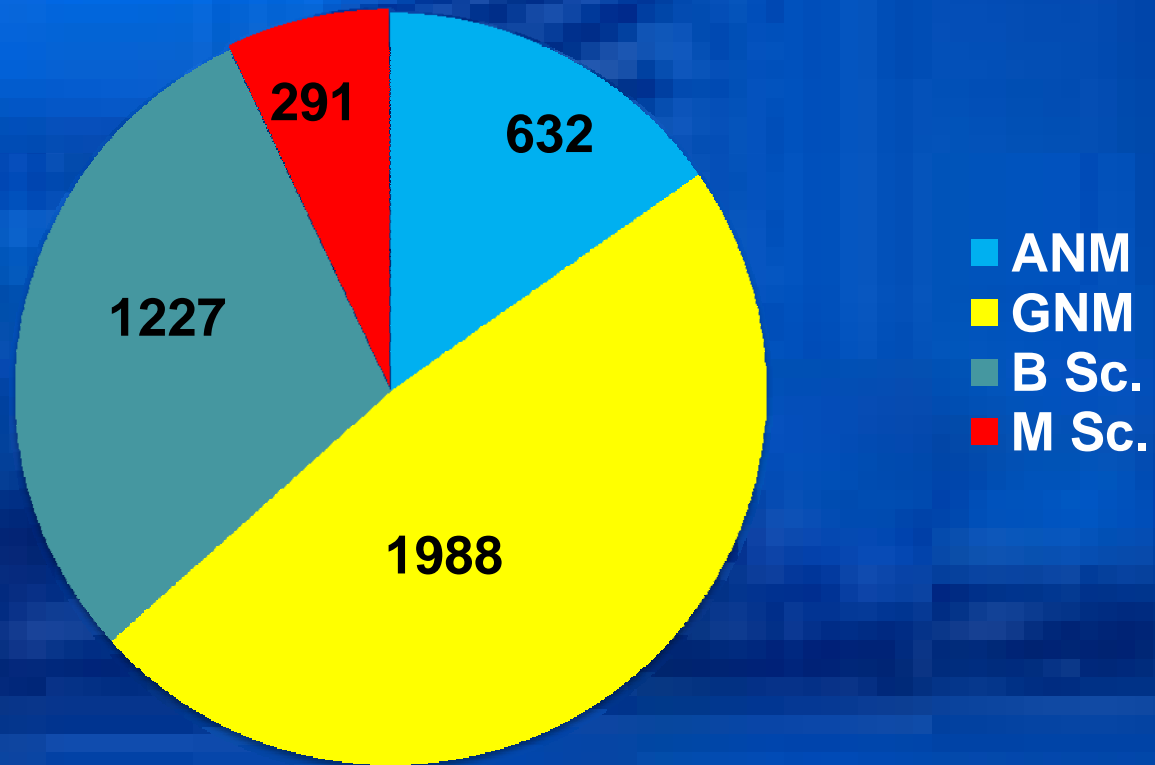


Dental Colleges, 2011

■ Recognized ■ Non Recognized



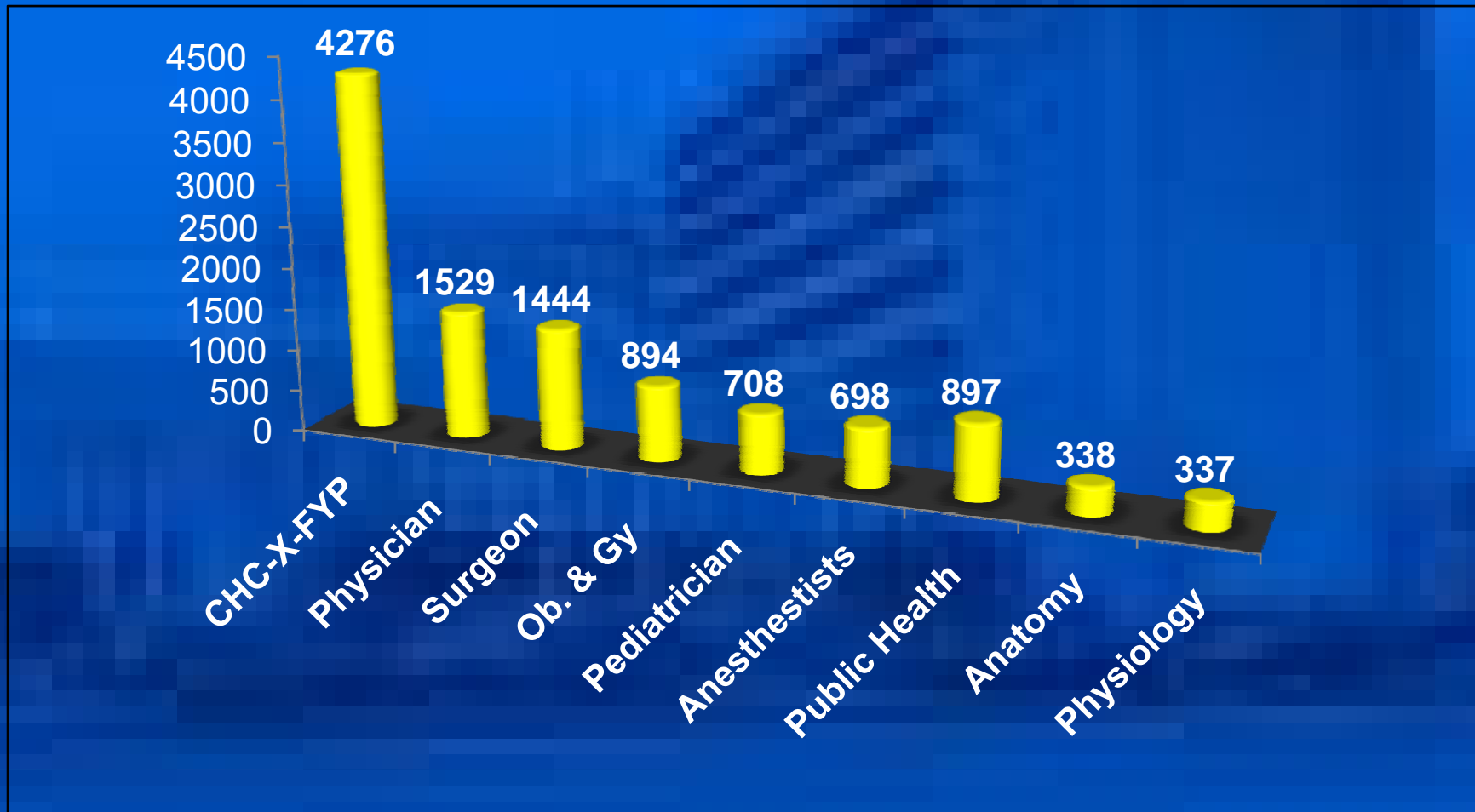
Nursing Schools (India)



Source: Indian Nursing Council

SIHFW: an ISO 9001:2008 certified Institution

CHCs : IPHS Vs PG seats March 2008



Source: CBHI



Some Medical Statistics: Rajasthan

Population : Medical College	6675000
Undergraduate Intake	1150
Post Graduate seats	739
UG:PG Seats	1.56
No. of Specialties	35

Source: CBHI

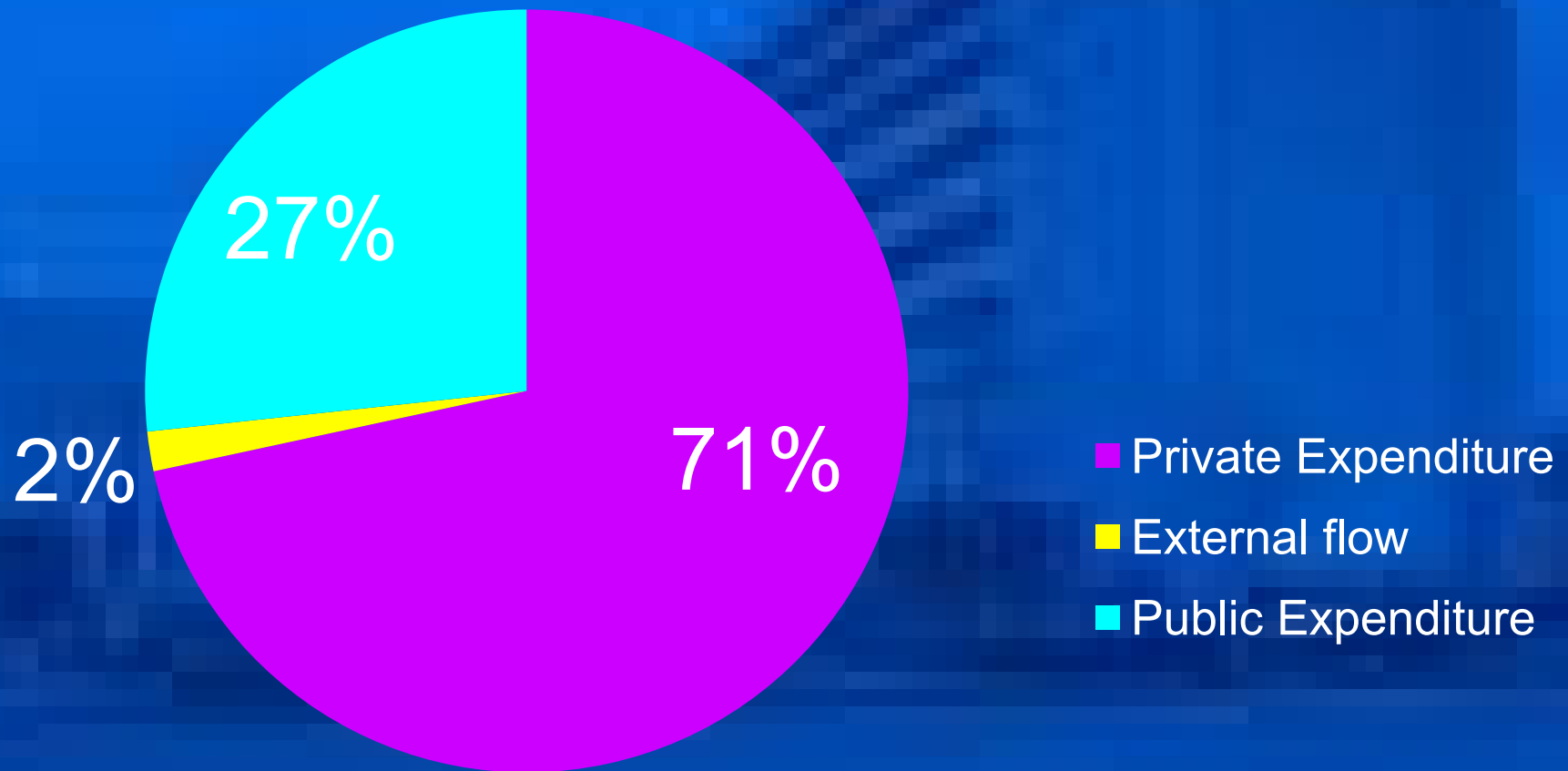


Health Expenditure



Share in health care spending

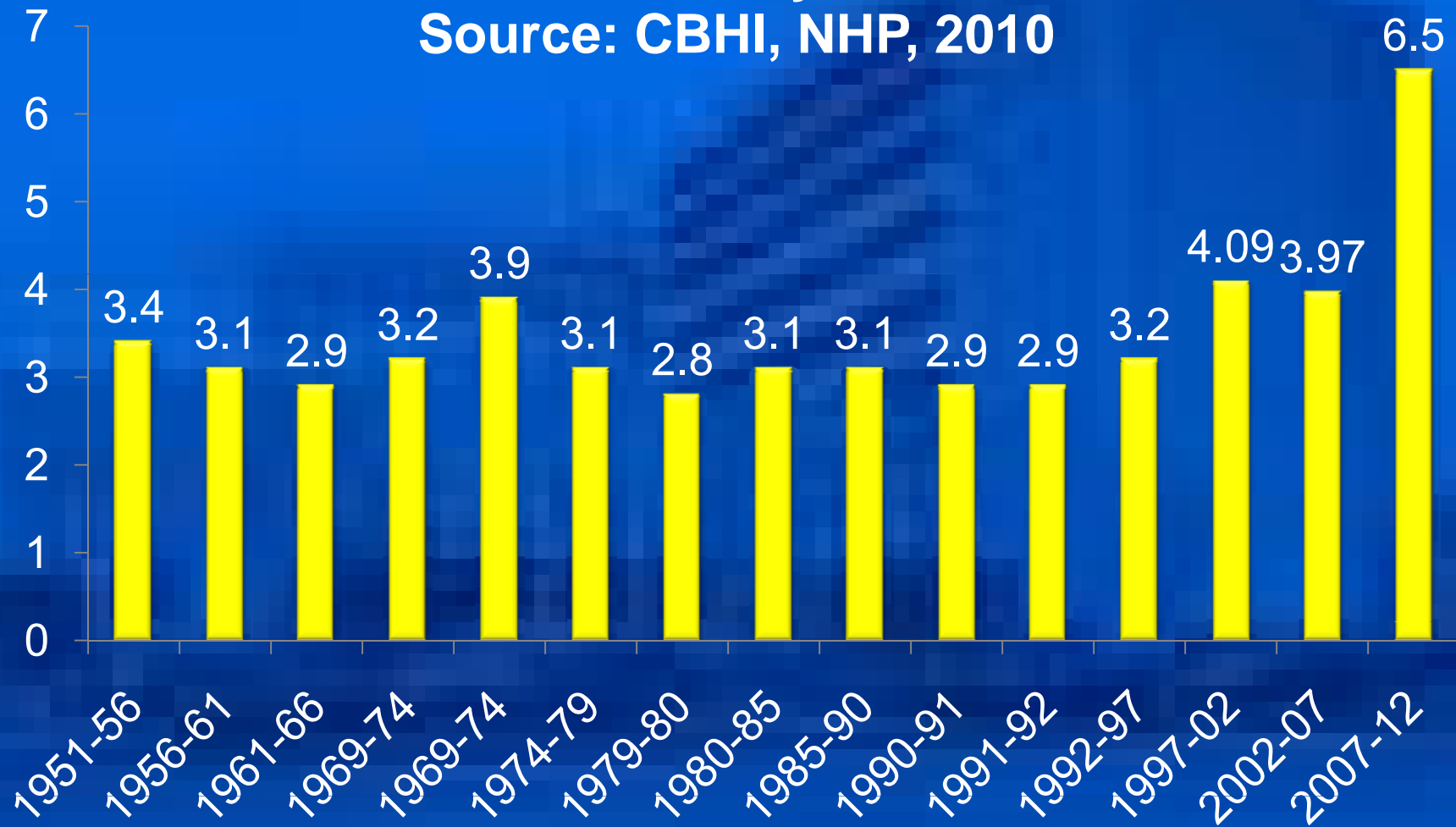
source:CBHI,NHP-2010





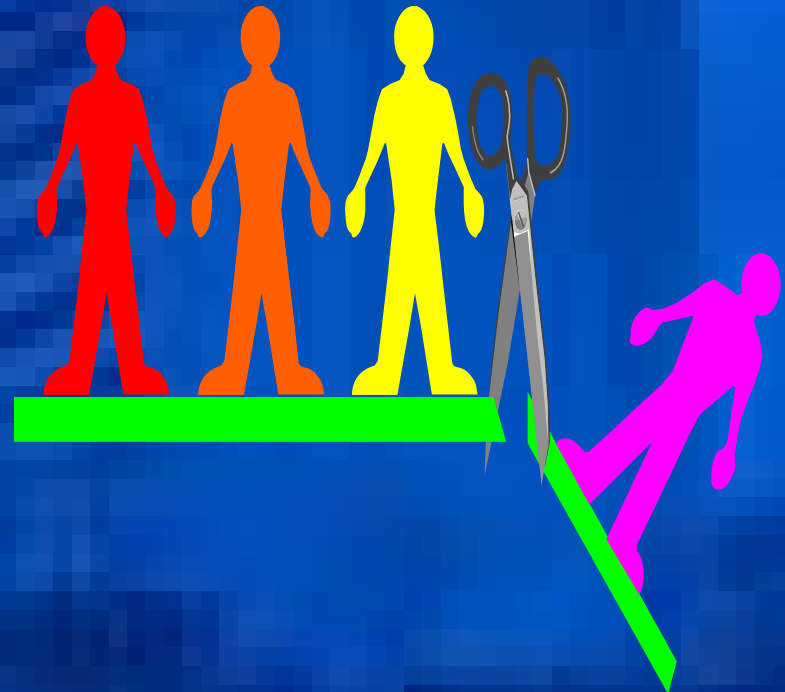
Health Expenditure as % of total Plan Outlay

Source: CBHI, NHP, 2010



Who *really* pays?

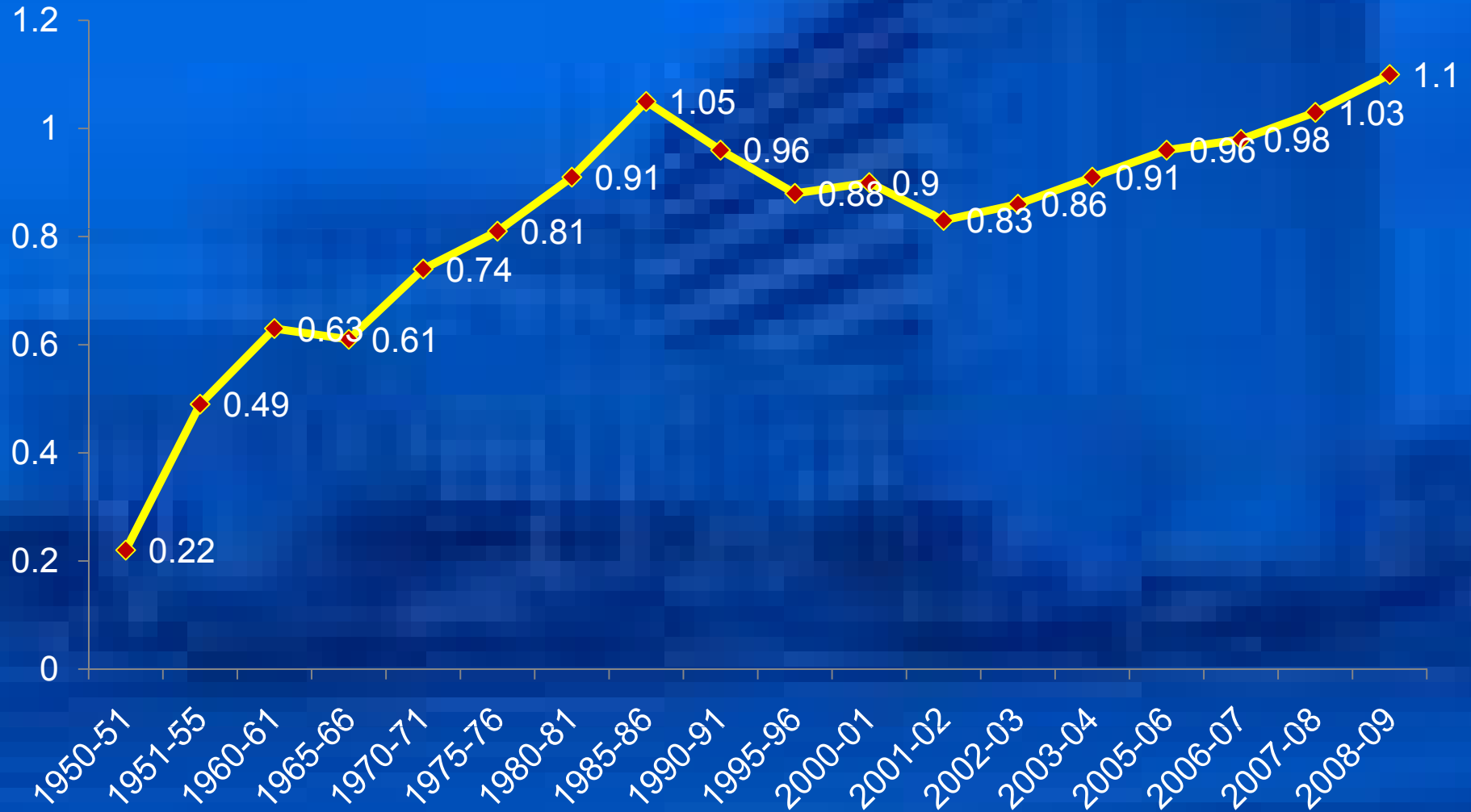
- Opportunity cost - if we choose to do one thing, the cost of doing that is the value which would have been obtained from the best alternative choice
- Who pays - the person who does not receive treatment





Total Govt. Expenditure on Health as % of GDP

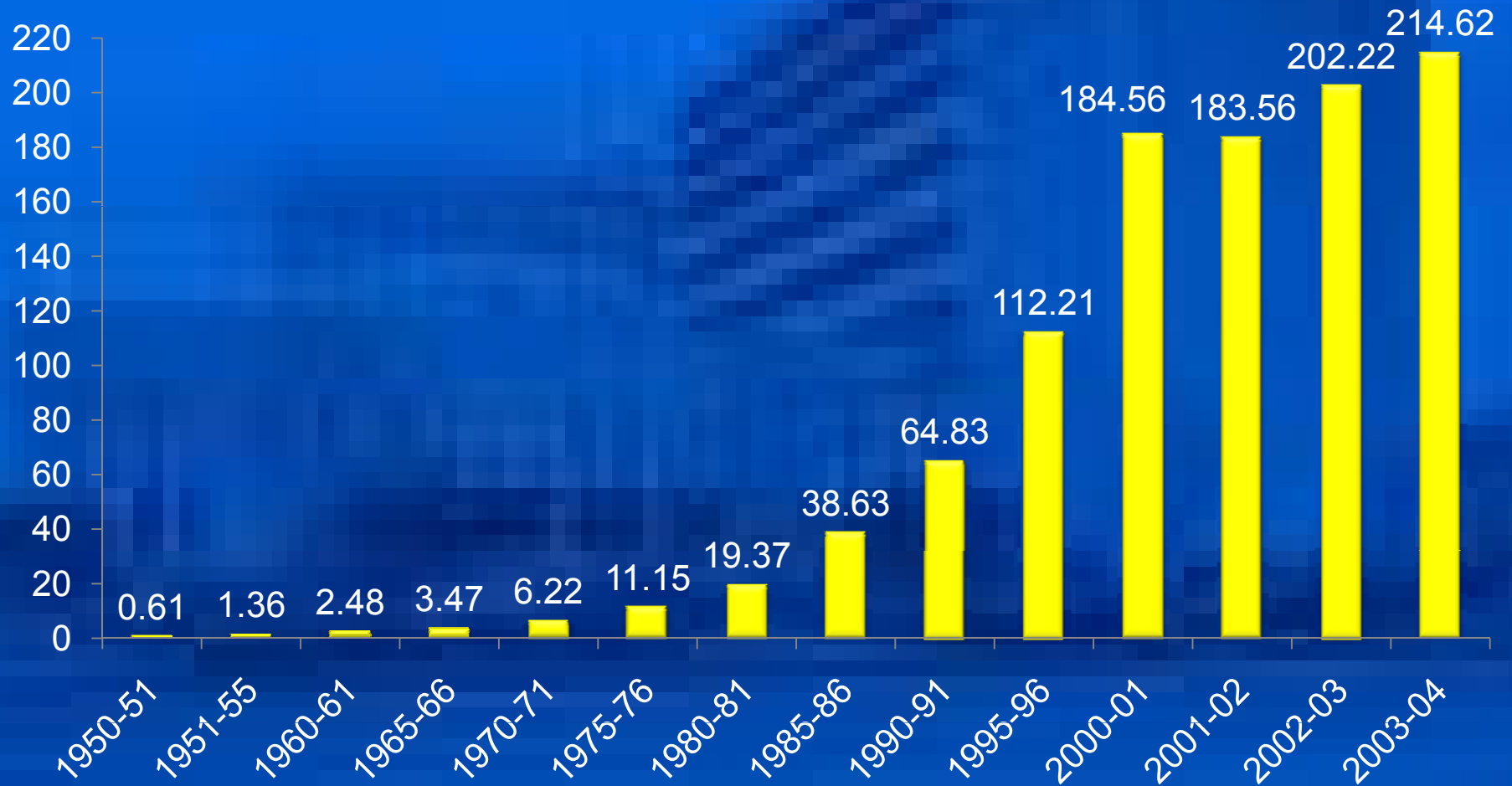
Source: CBHI, NHP, 2010





Per Capita Public Exp. on Health

Source: CBHI, NHP, 2010





Status of Expenditure in FYPs

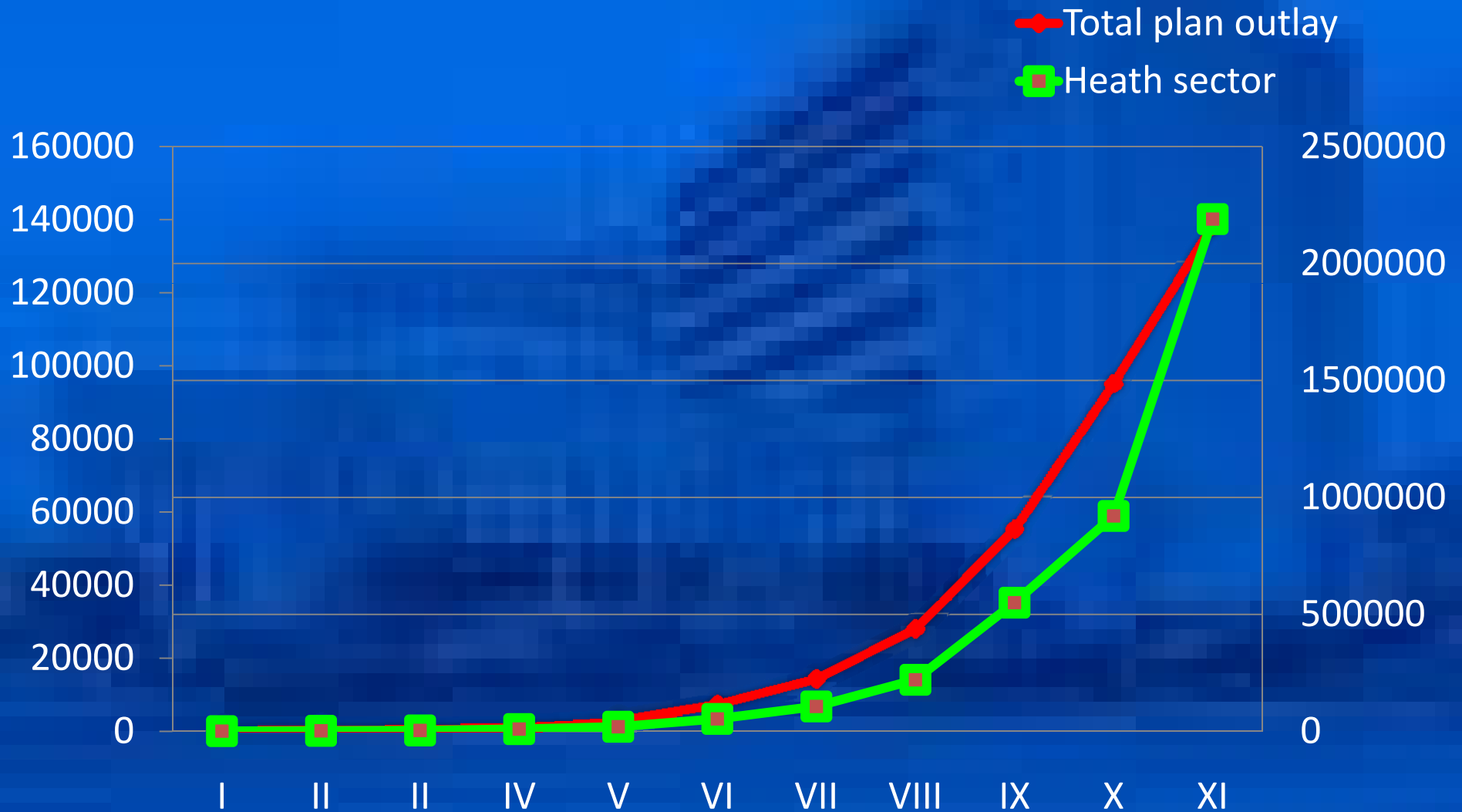
Source: CBHI, NHP, 2010

FYPs	Total Plan Investment	Health	Family Welfare
I	1960	65.2	0.1
II	4672	140.8	2.2
III	8576	225	24.9
IV	15778.8	335.5	284.4
V	39322	682	497.4
VI	97500	1821	1010
VII	180000	3392	3256.2
VIII	798000	7575.9	6500
IX	859200	10818	15120.2
X	1484131.3	31020.3	27125
XI	2156571	136147.0	



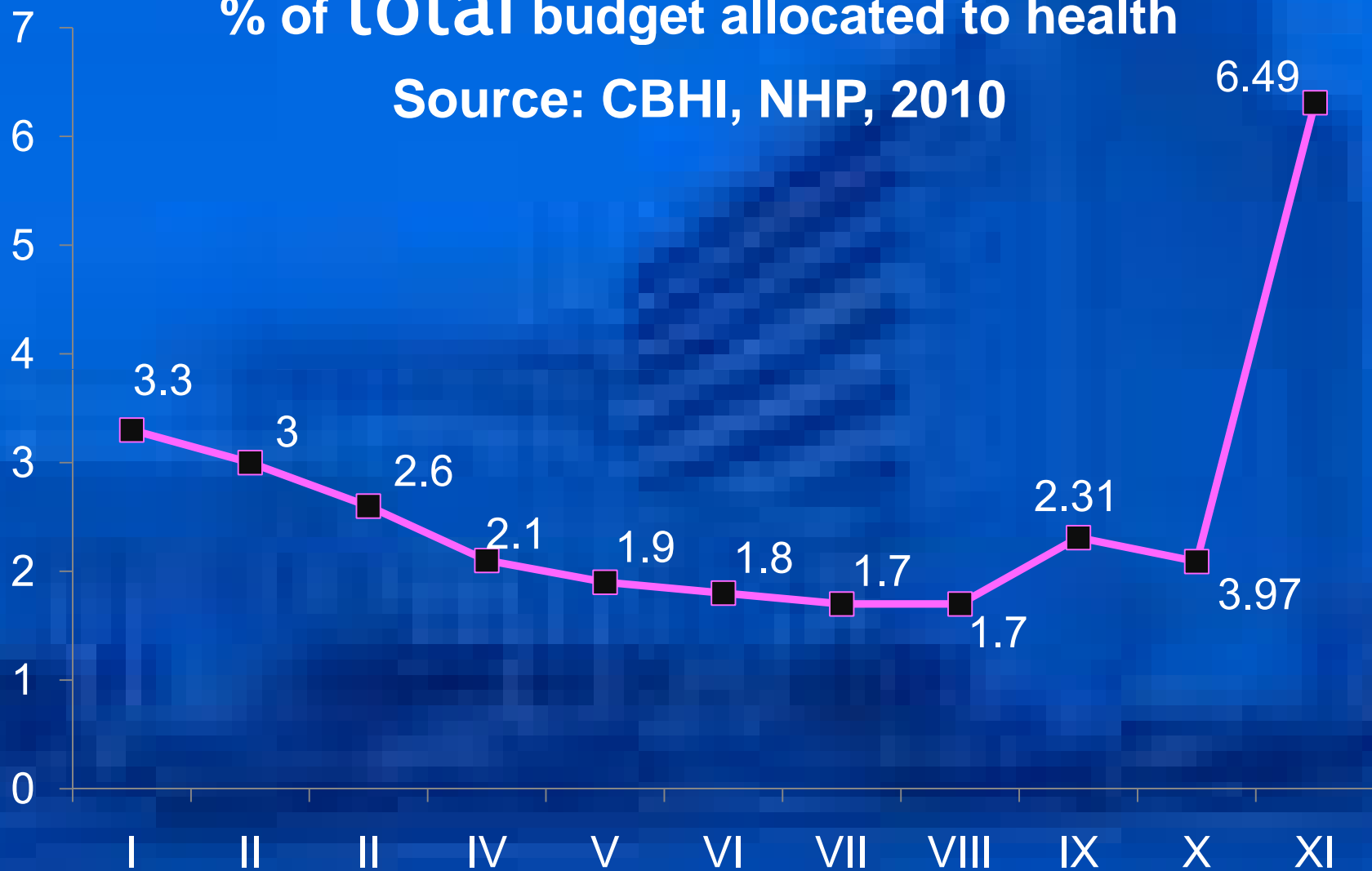
Total Outlay – Plan and Health (including AYUSH & FW)

Source: CBHI, NHP, 2010

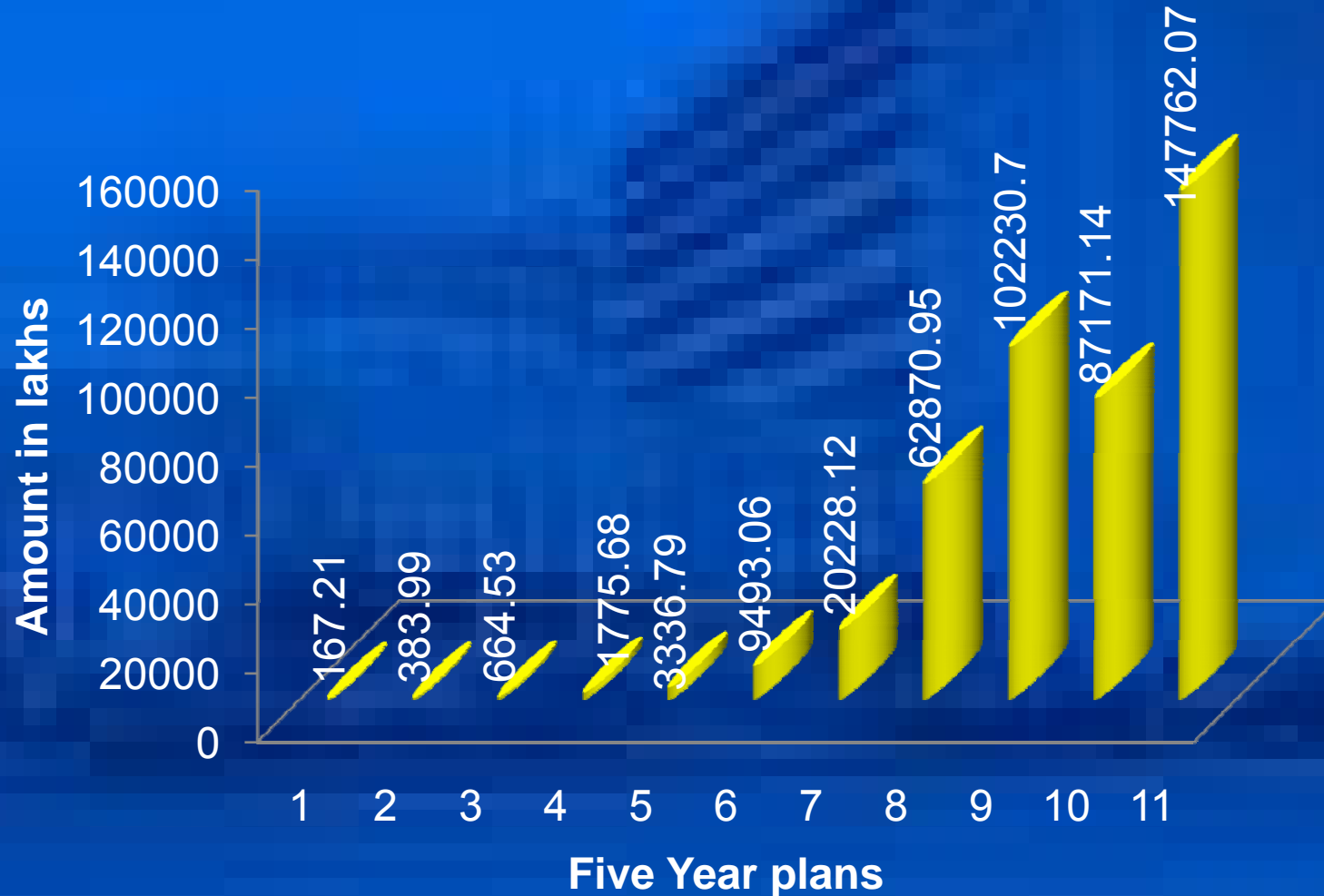


% of total budget allocated to health

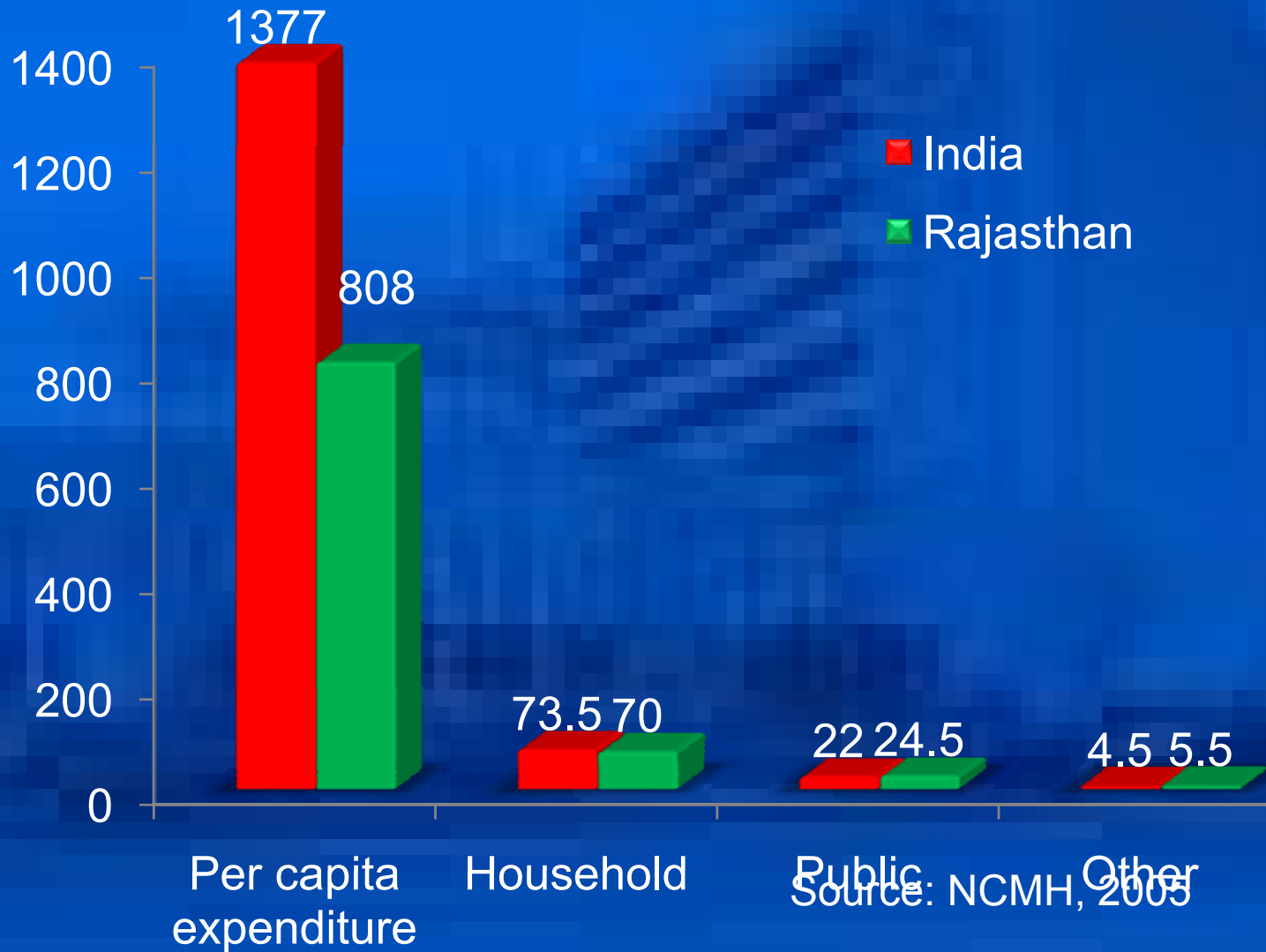
Source: CBHI, NHP, 2010



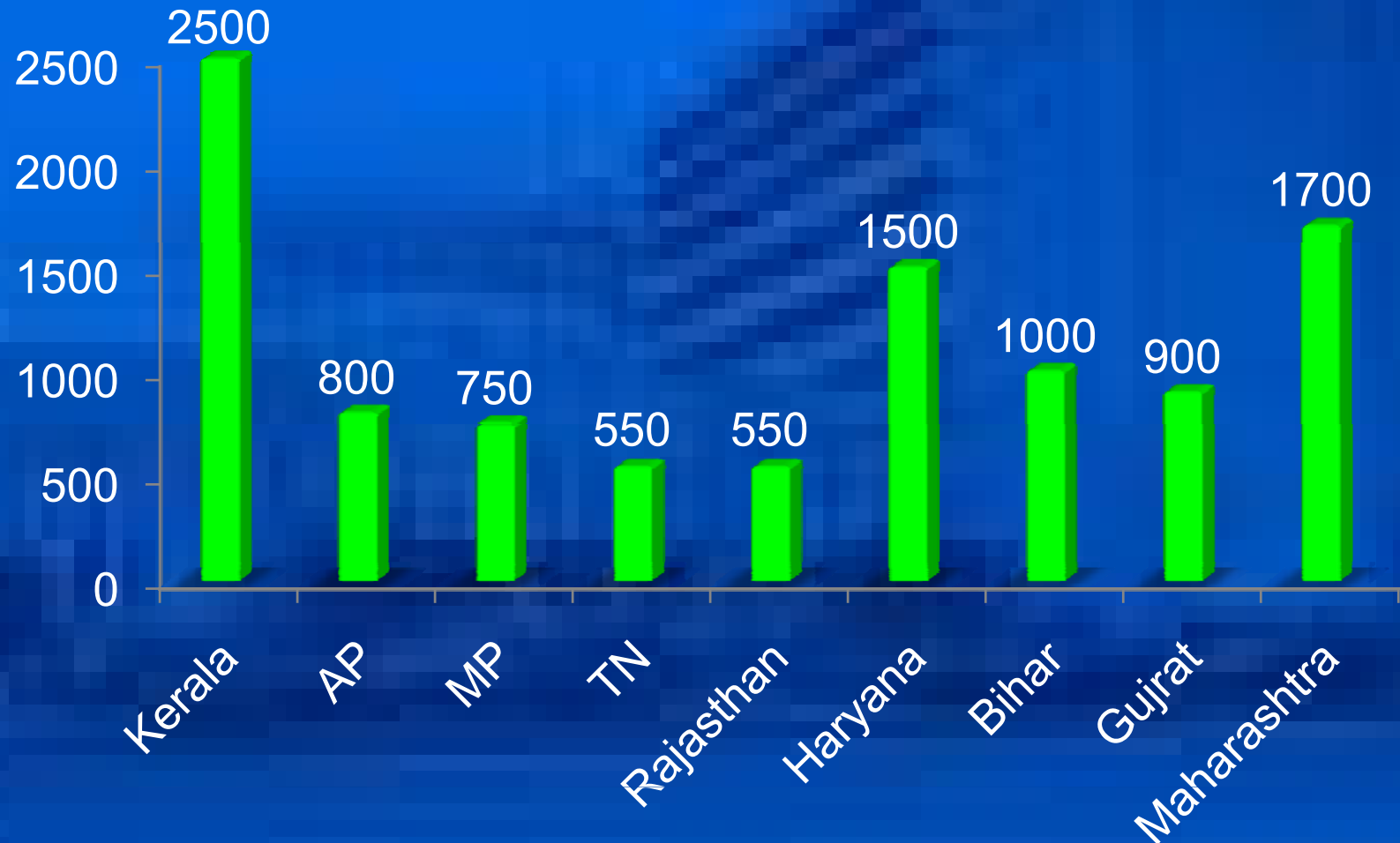
Budget Rajasthan



Health Care Spending (2004-05)



Out of pocket expenditure on Health (2004-05)



Based on NHA-2000-01, extrapolated for 2004-05

Health Spending: Facts

- **Public Domain**
 - Center: Rs.35 bi (0.13% GDP)
 - State: Rs.186 bi (0.72% GDP)
 - Local: Rs.25 bi estimated (0.10% GDP)
 - Social Insurance: Rs. 12 bi (0.05% GDP)
- **Private Domain**
 - Out-of-pocket: Rs.1200 bi (4.62% GDP)
 - Insurance (public sector) Rs.8 bi (0.03% GDP)
 - Pharma Industry Rs. 250 bi (0.96% GDP)



Human Resource in Health



People are resource
But
To maintain this resource
We need Resources

Doctors (Allopathic in India)



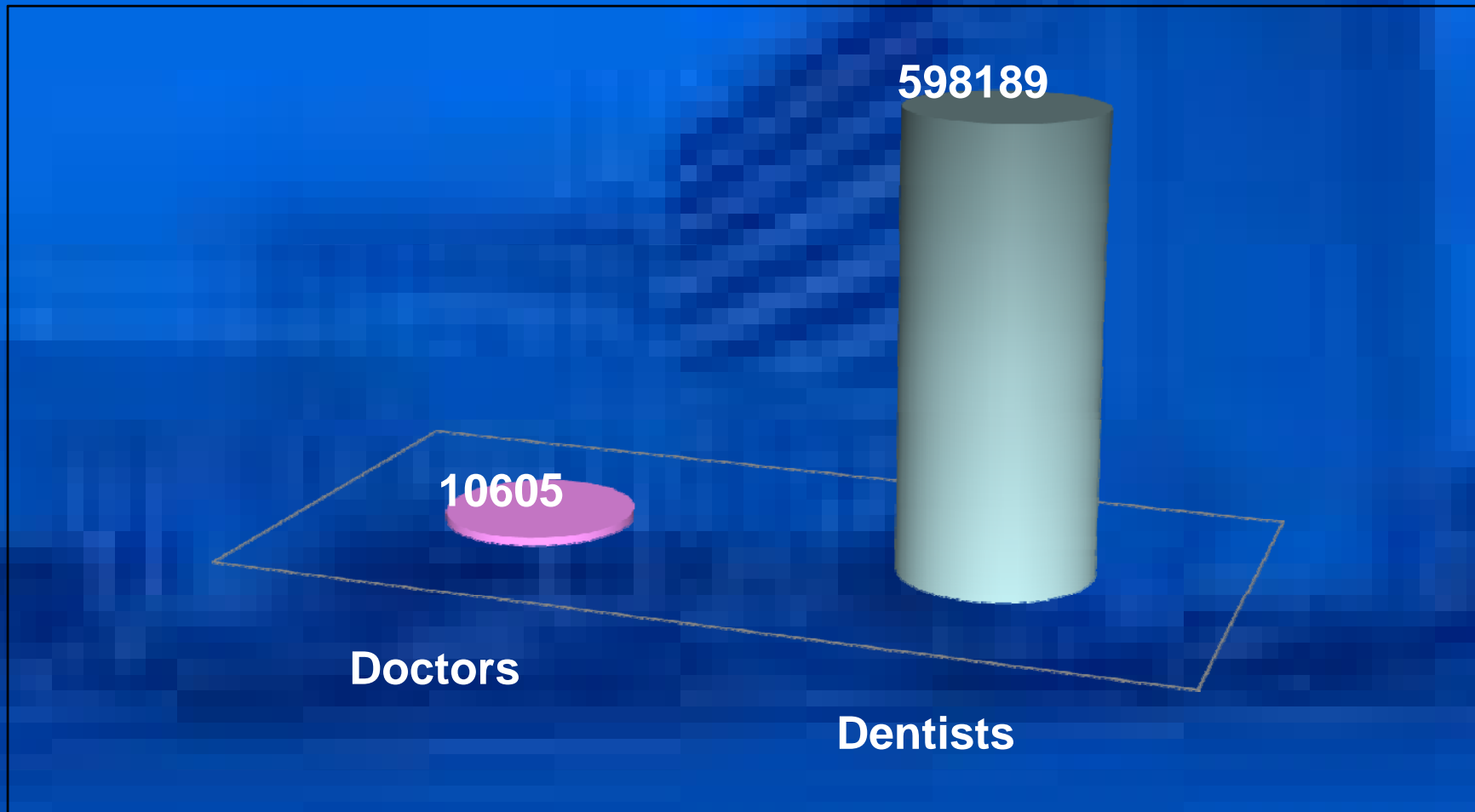
Source: CBHI,NHP-2010

Nurses (India)



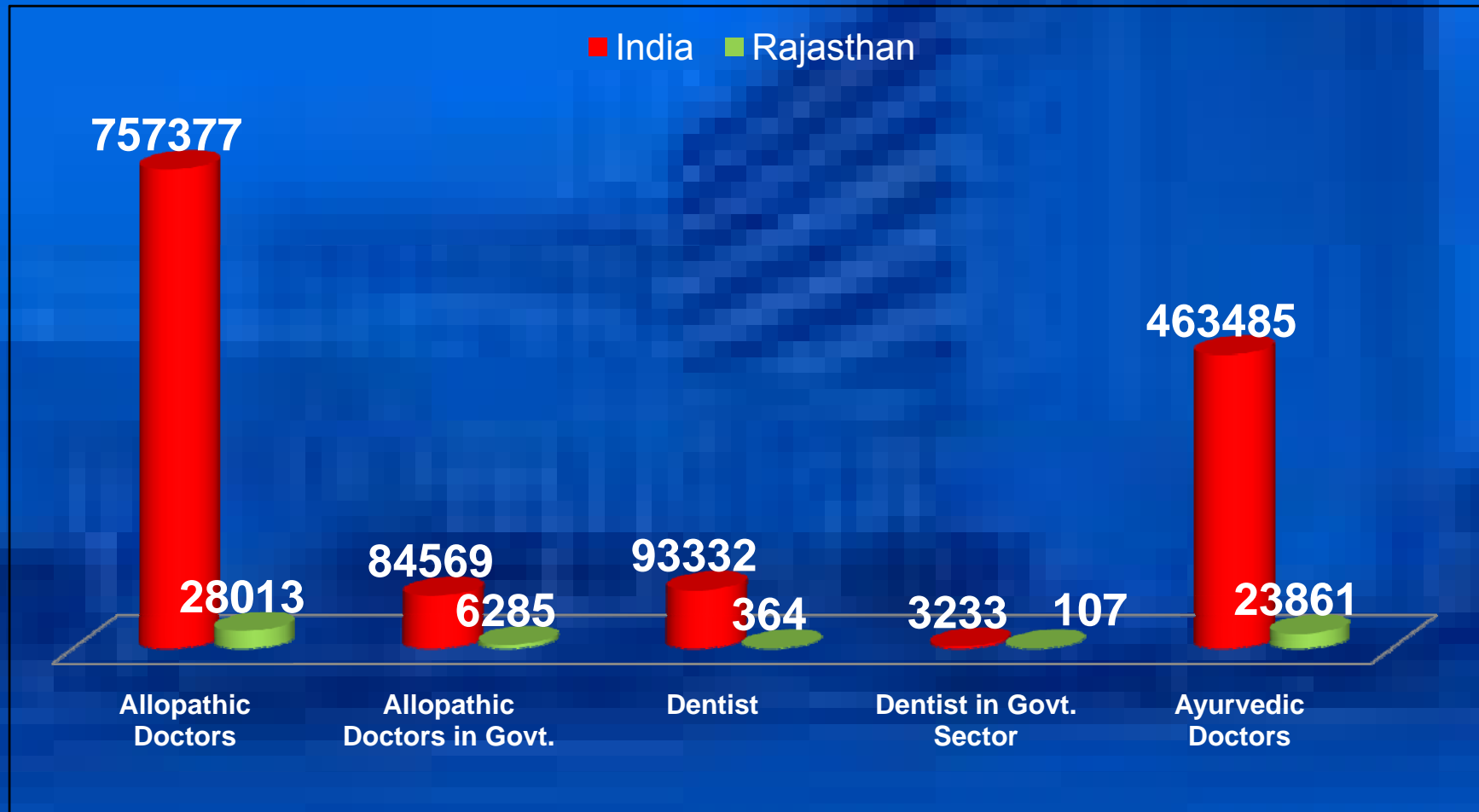
Source: CBHI,NHP-2010

Average Population Served in Rajasthan;2010



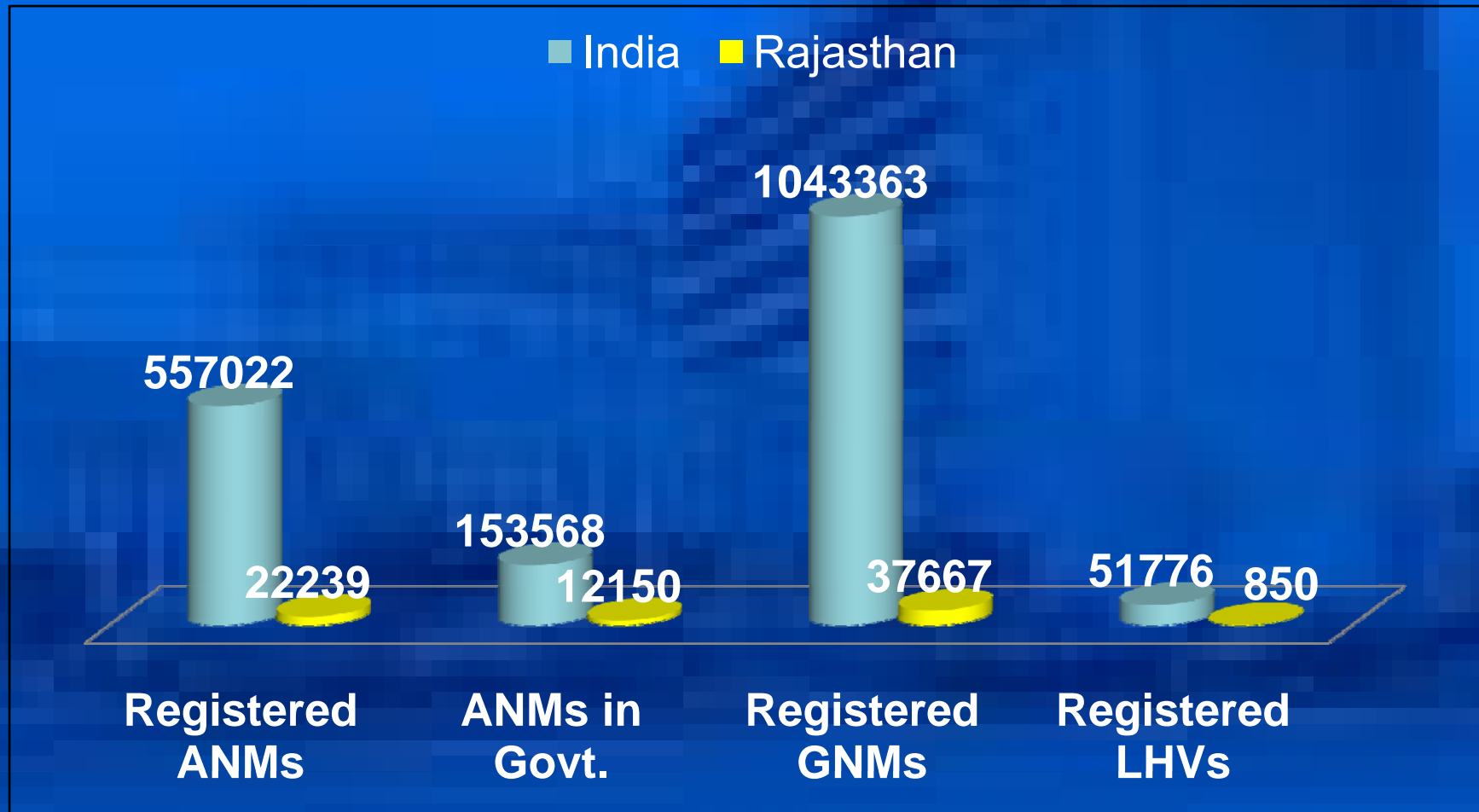
Source: CBHI,NHP-2010

Manpower Status 2010



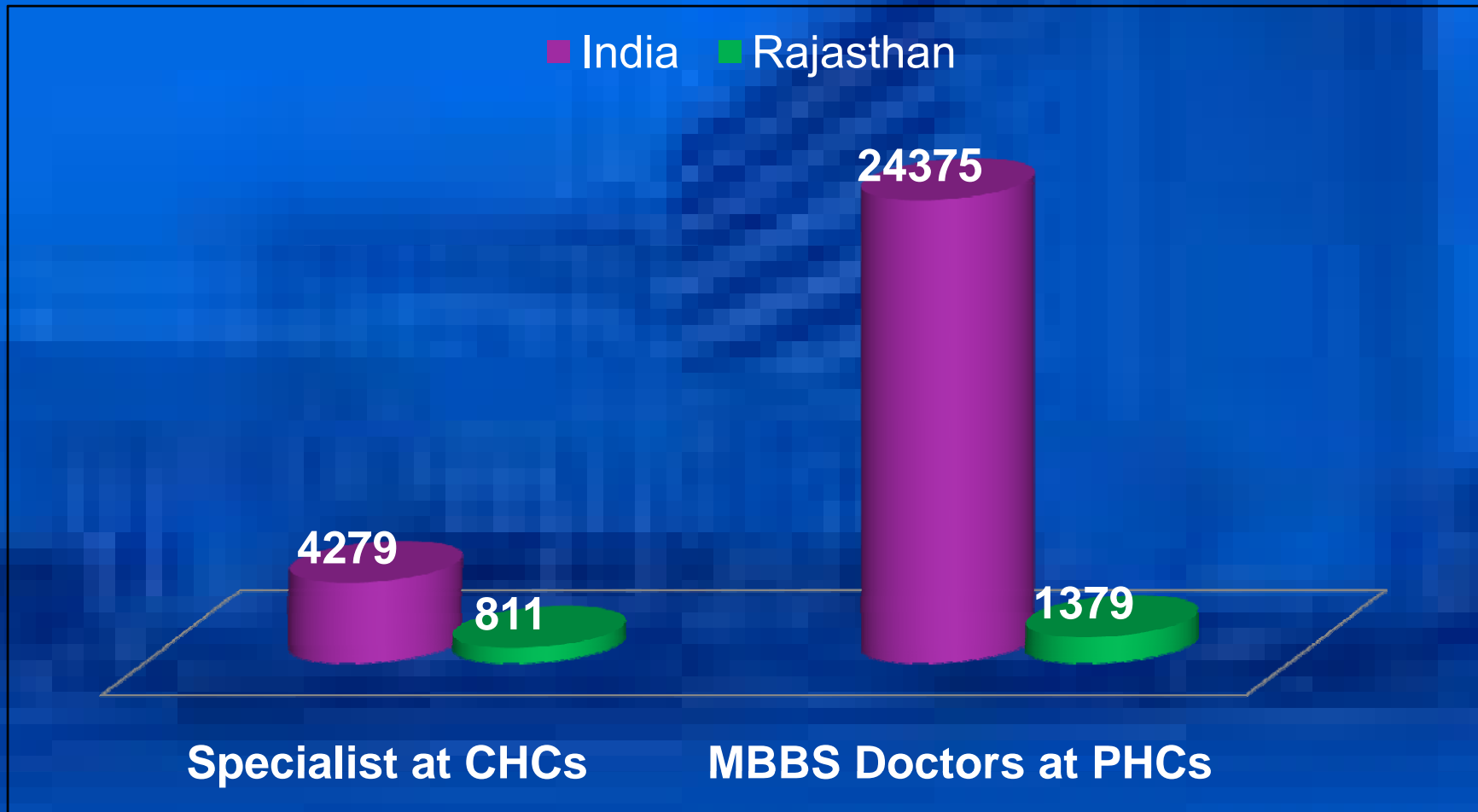
Source: CBHI,NHP-2010

Manpower Status 2010



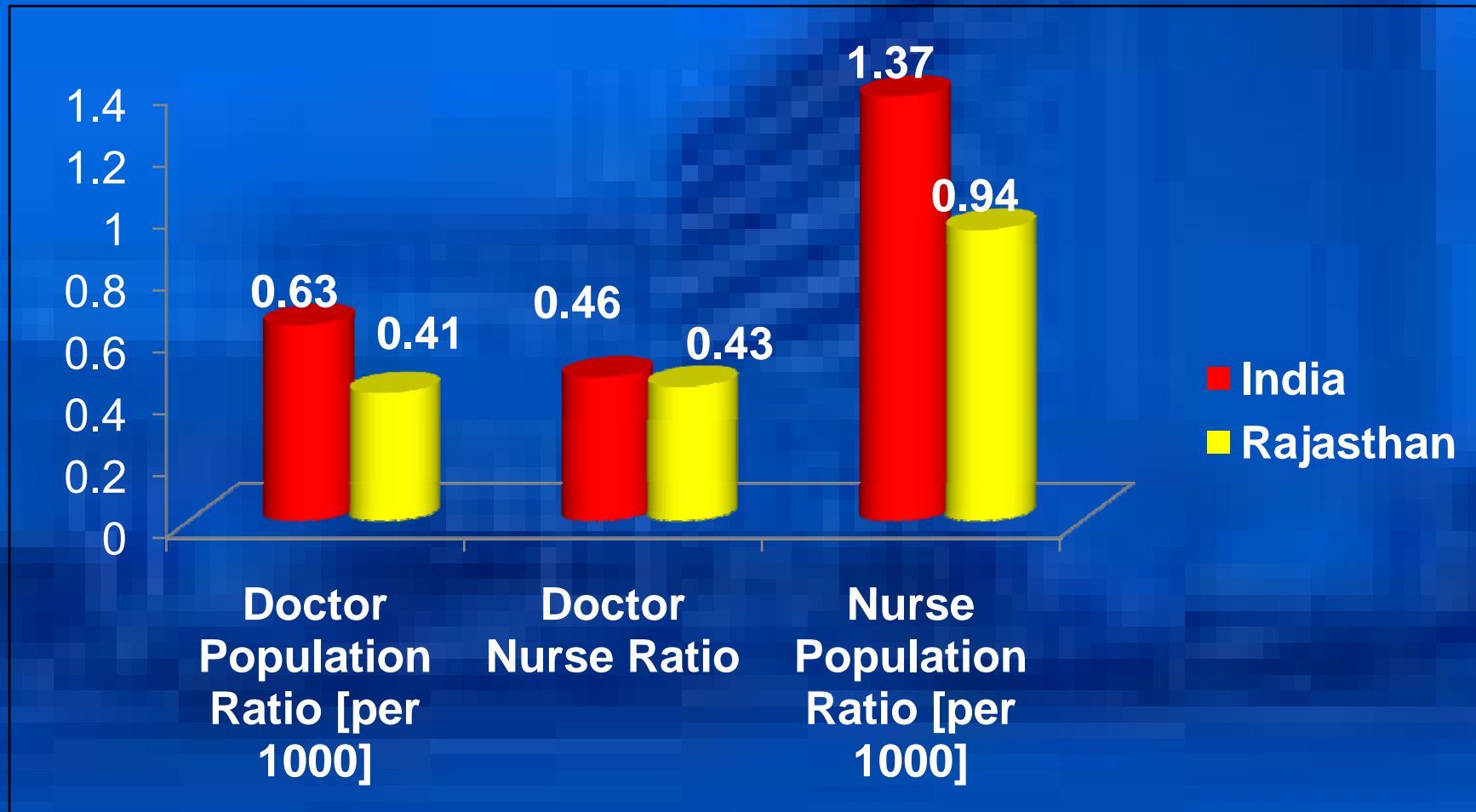
Source: CBHI

Manpower Status 2010



Source: CBHI

Service Provider Status (2008)





Health system's performance



Goals to be achieved by 2000–2015

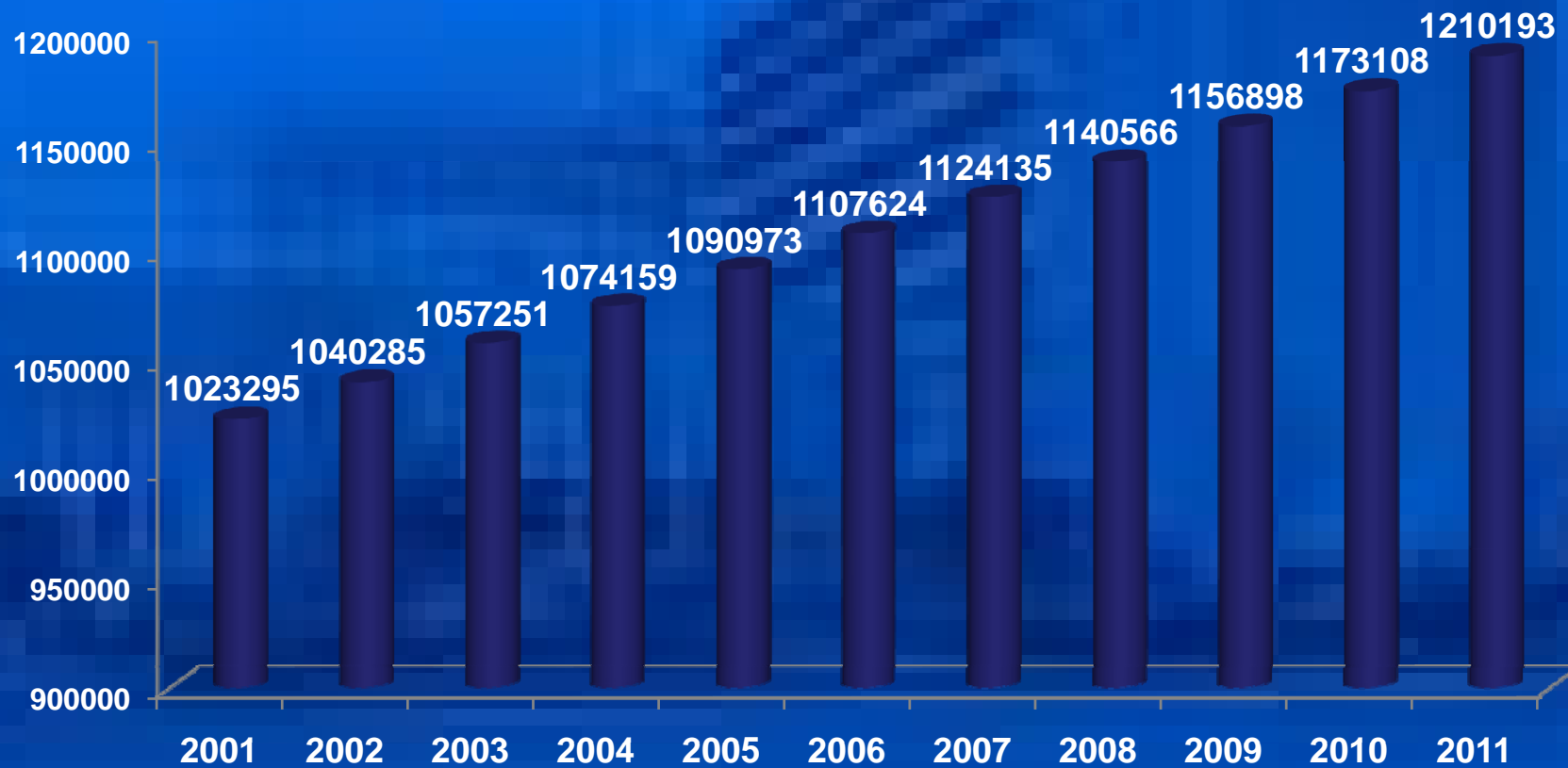
Eradicate Polio and Yaws	2005
Eliminate Leprosy	2005
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Eliminate Lymphatic Filariasis	2015
Achieve Zero level growth of HIV/AIDS	2007
Reduce Mortality by 50% on account of TB, Malaria and Other Vector and Water Borne diseases	2010
Reduce Prevalence of Blindness to 0.5%	2010
Reduce IMR to 30/1000 And MMR to 100/Lakh	2010
Increase utilization of public health facilities from current Level of <20 to >75%	2010
Establish an integrated system of surveillance, National Health	2005

Population and Growth: India





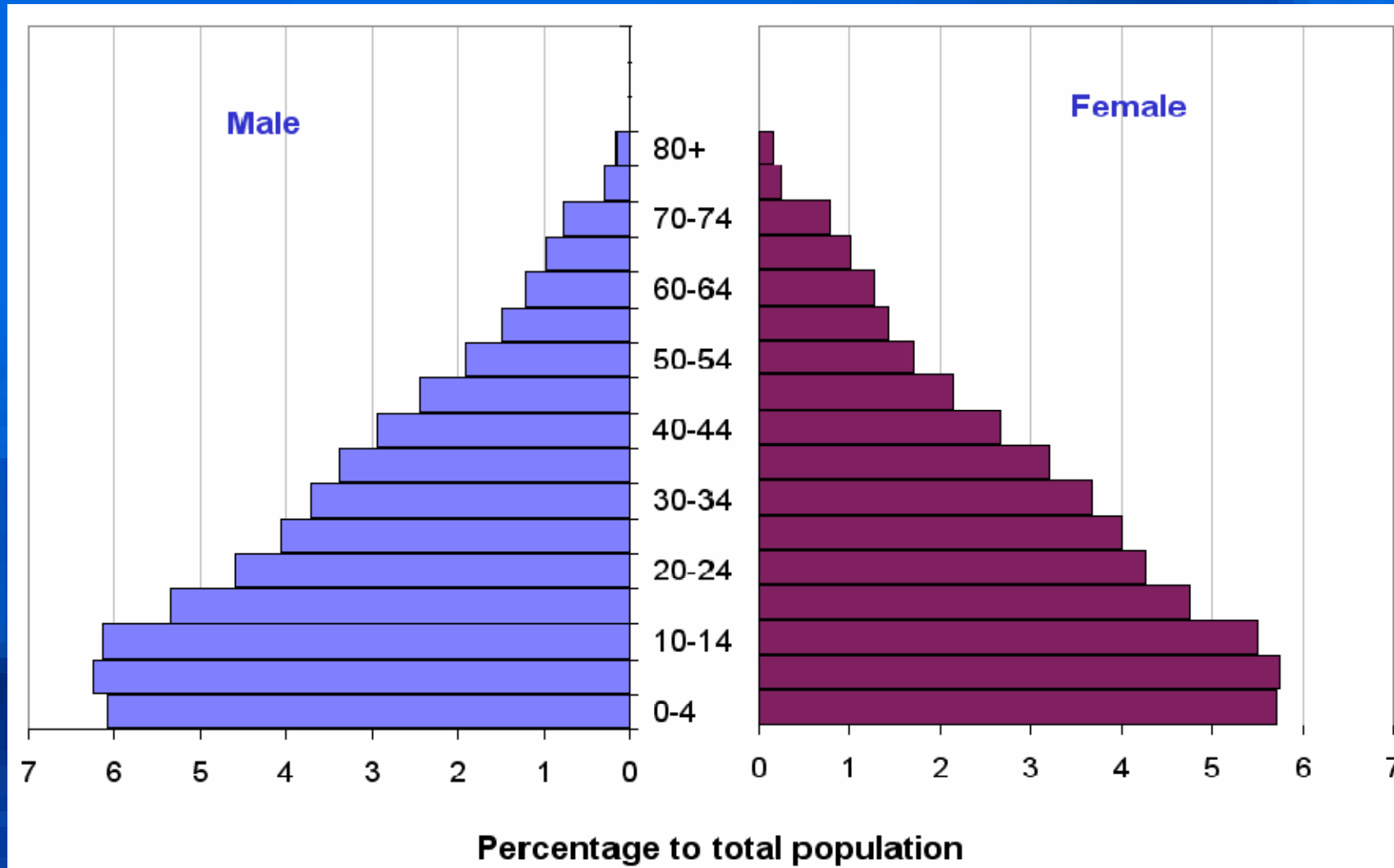
Population Growth-India



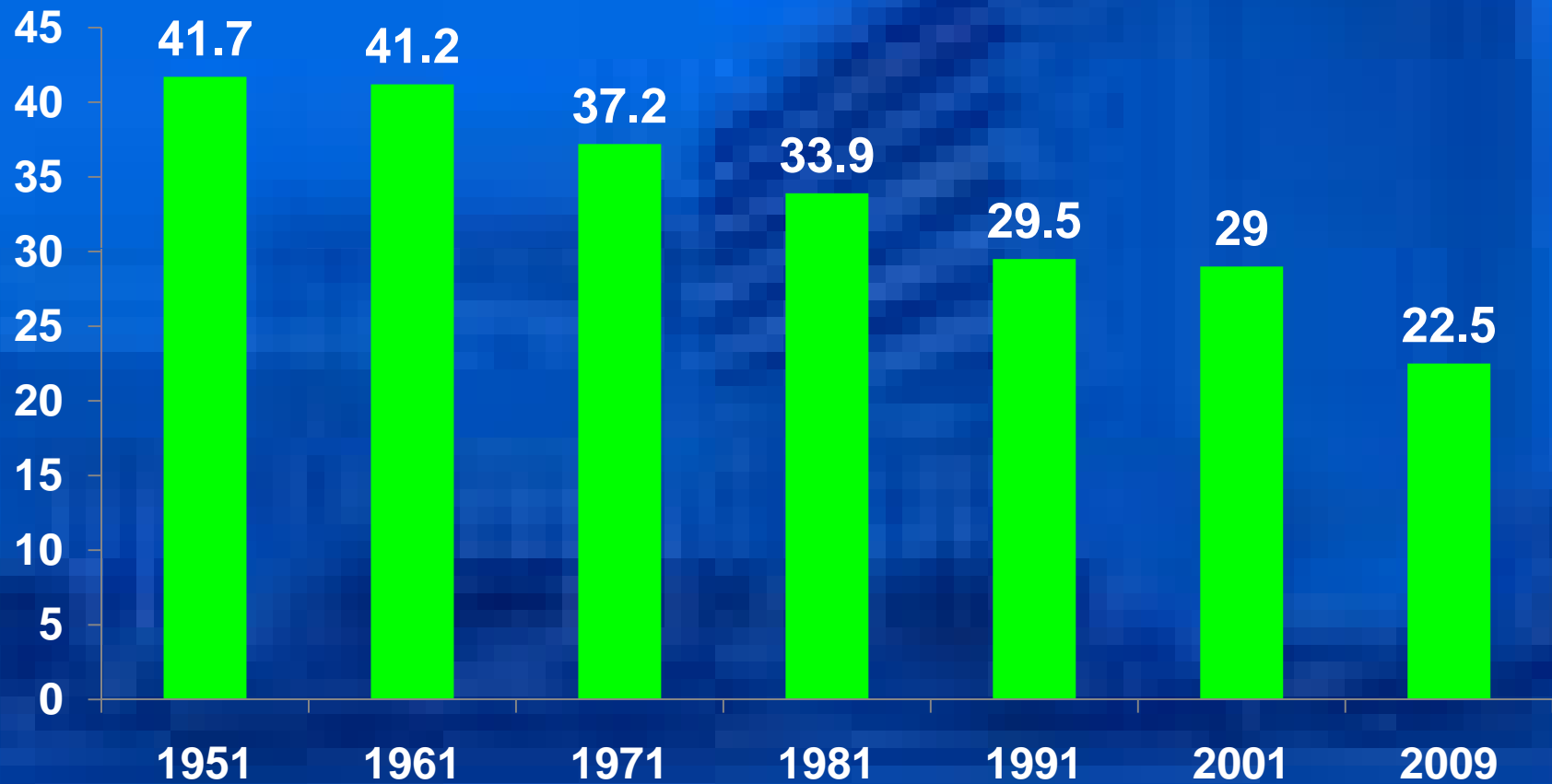
Source: Census India, 2011

SIHFW: an ISO 9001: 2008 certified institution

Population Pyramid: India, 2011

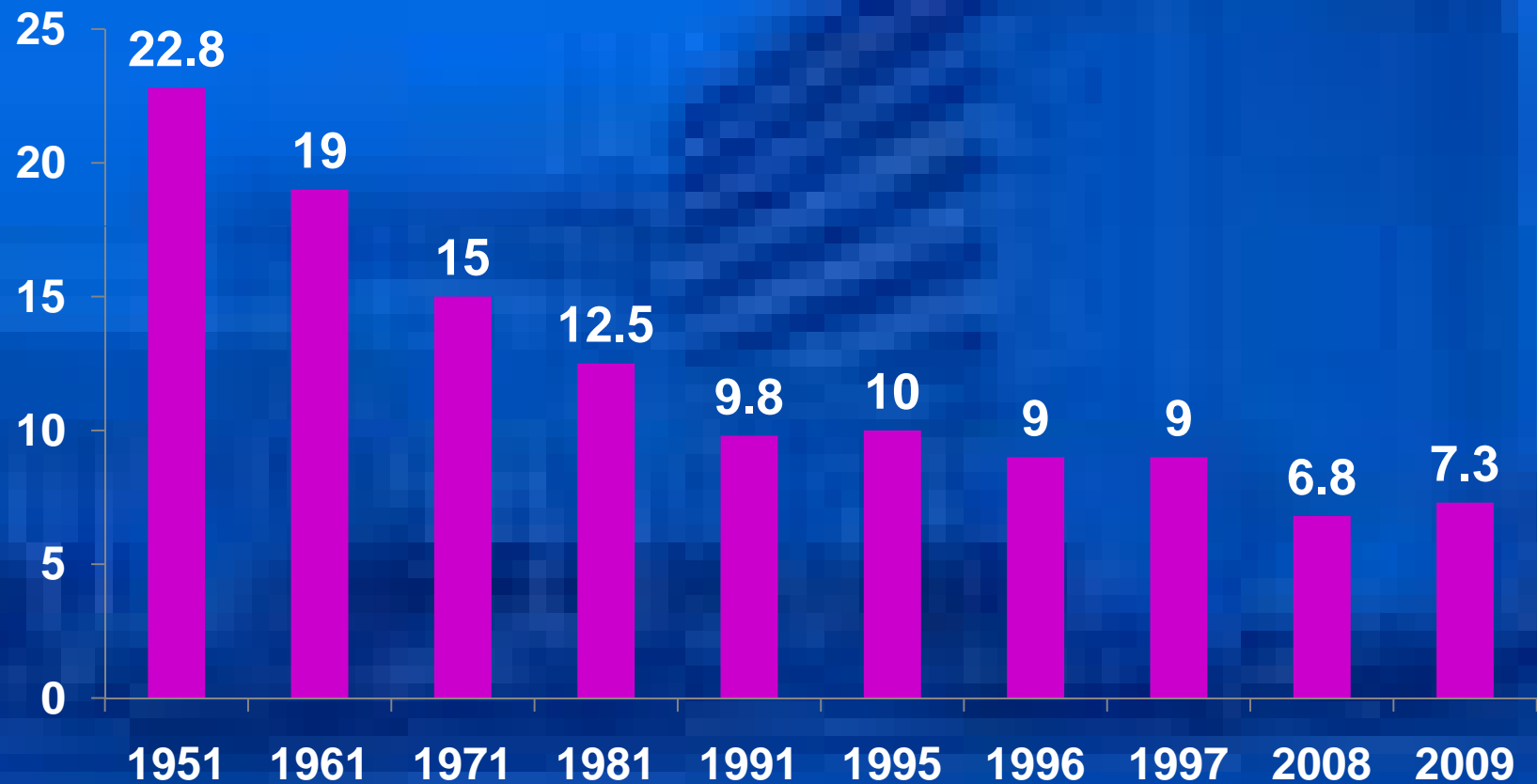


Crude Birth Rate(India)



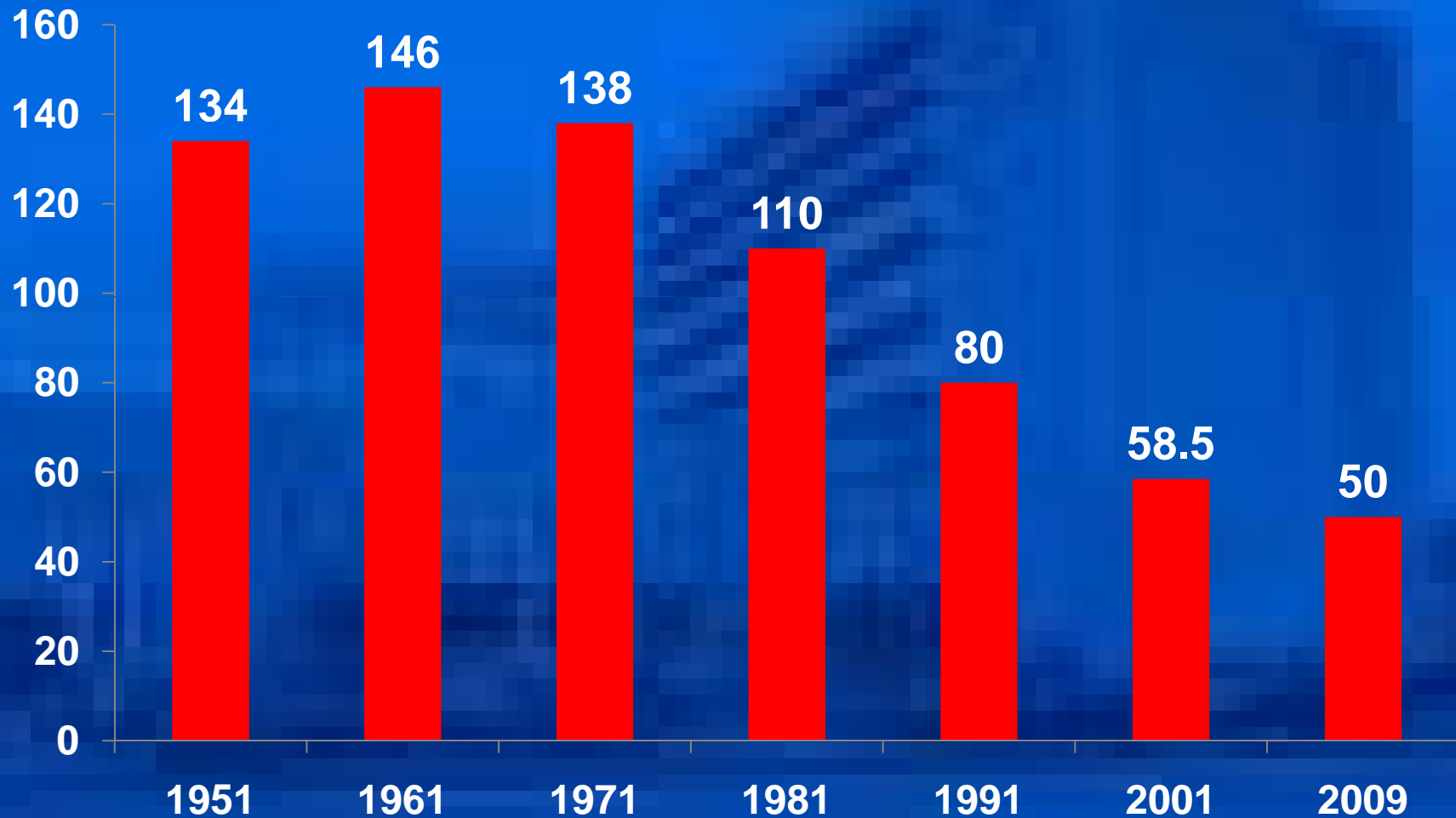
Source: SRS 2011

Crude Death Rate (India)



Source: SRS 2011

Infant Mortality Rate (India)



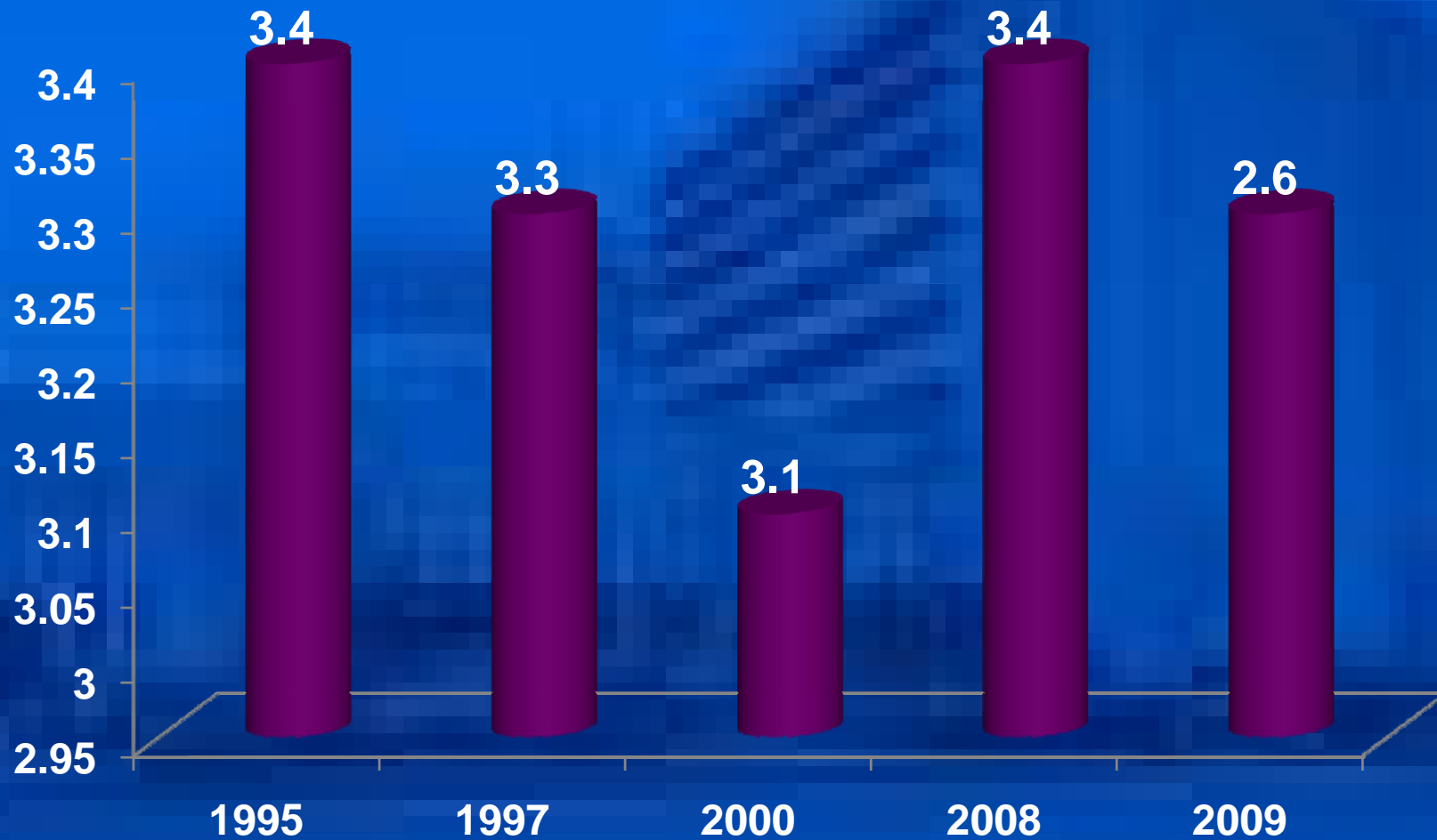
Source: SRS, 2011

Maternal Mortality Ratio(India)



Source: SRS ,July 2011

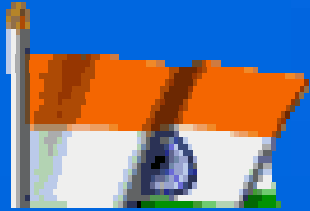
Total Fertility Rate (India)



Source: SRS, July 2011



How did Health system evolve



1947



1950





Committees & Commissions

Committees & Commissions

- 1946: Bhore Committee
- 1959-62 Mudaliar committee (Health Survey And Planning Committee): Health services restructuring
- 1963: Chaddah committee: TOR-Malaria
- 1964: Mukherjee committee: Family planning



- 1964-67:Junglewala committee: Integration Of Health Services
- 1972-73:Kartar Singh committee: MPW scheme
- 1974-75:Srivastav committee: Medical Education & Support Manpower

1959–62 Mudaliar committee (Health Survey And Planning Committee)



- Consolidate gains
- Strengthen district hospitals
- Regionalization of health services
- PHC for 40000 population
- Integration of medical & health
- Creation of all India health services cadre



1963: Chaddah committee

- **TOR-Malaria**
- **NMEP**
 - vigilance & maintenance by health services
 - Monthly home visits
 - 10000 population per worker
- **Basic health worker**
 - vital statistics &
 - family planning



1964:Mukherjee committee

- TOR-Family planning
- Exclusive family planning staff (uni-purpose worker)



1964–67:Junglewala committee (Integration Of Health Services)

- Unified cadre
- Common seniority
- Recognition of extra qualifications
- Equal pay
- Specialized pay
- No private practice



1972–73:Kartar Singh committee

- Conversion of ANM to MPHWS (F)
- Uni-purpose to multi-purpose workers
- One PHC per 50000 population
 - 16 S/C per PHC
 - 3000-3500 population per S/C
 - One supervisor for 4 workers



1974–75: Srivastav committee (Medical Education & Support Man–Power Committee)

- Cadre of community health workers (CHW)
- Medical officer for maternal health at PHC
- Health assistant to be a link between health worker and PHC



Bajaj Committee, 1986

- An "Expert Committee for Health Manpower Planning, Production and Management" was constituted in 1985 under Dr. J.S. Bajaj.
- Recommendations :
 - Formulation of National Medical & Health Education Policy.
 - Formulation of National Health Manpower Policy.



- Establishment of Educational Commission for Health Sciences (ECHS) on the lines of UGC.
- Establishment of Health Science Universities in various states and union territories.
- Establishment of health manpower cells at centre and in the states.



4 Reasons based on 4 lesser known facts



- Reason 1:
 - Public doctors in India are among the most absent in the world
 - Absences are never below 30 percent!
- Reason 2:
 - When public doctors do show up for work, they exert very little effort
- Reason 3:
 - Public doctors in PHCs are not particularly competent to begin with
- Reason 4:
 - You still have to bribe public doctors to do their work



One important question...

Why don't the poor use
public health facilities more?



Some facts about Public Health care in India

- **Fact #1:**
 - Most spending is private; the fraction on genuine public goods is tiny
- **Fact #2:**
 - The poor use private care as much as the rich
- **Fact #3:**
 - More public money on health goes to the rich than the poor (because hospital use is regressive)

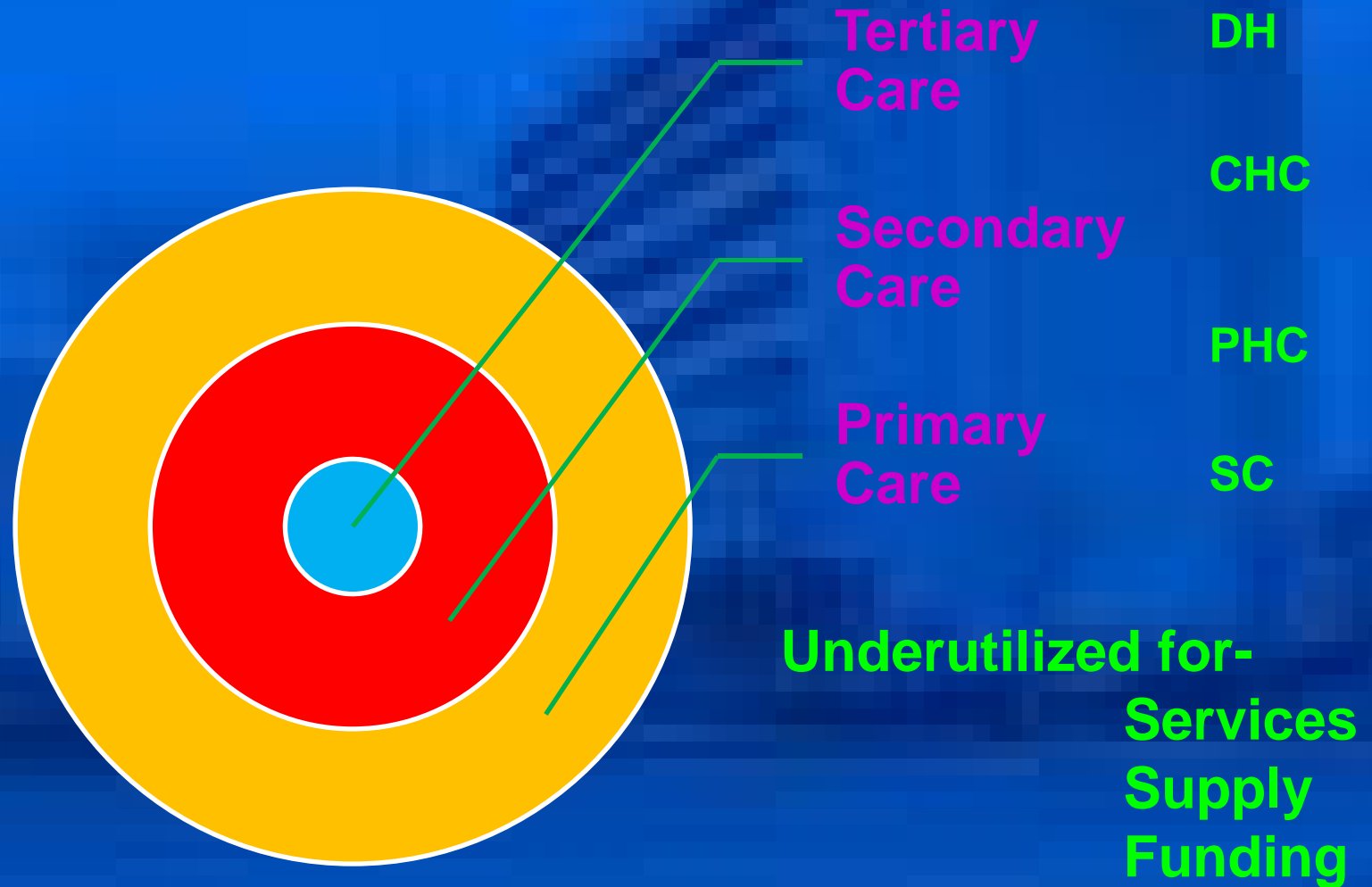
A summary of why poor people may not be using the PHC system

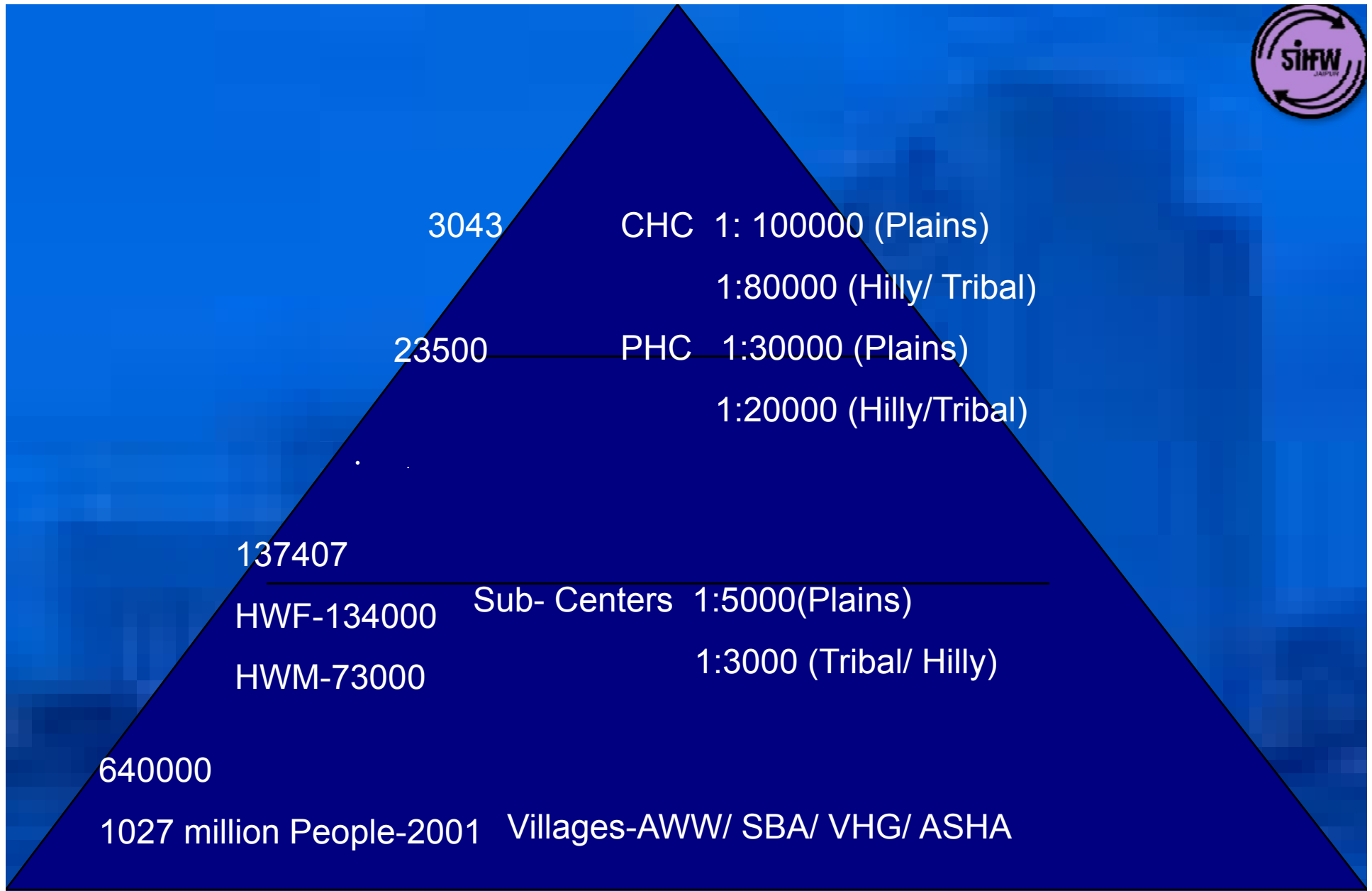


- The doctors are low on competence
- They don't show up for work
- When they do show up, they don't work to the level of their knowledge
- And patients have to pay bribes anyway



Service delivery:3-tier structure







The Political Economy Context

- A democratic federal system which is subdivided into
 - 28 States, 7 union territories and 593 districts
- In most of the states three local levels of government (Panchayati-raj)
- Per capita income US \$440
- 435 million Indians are estimated to live on less than US \$ 1 a day



- 36% of the total number of the worlds' poor are in India
- Tax based health finance system with health insurance
- 80% health care expenditure born by patients and their families as out-of -pocket payment (fee for service and drugs)
- Expenditure on health care is second major cause of indebtedness among rural poor



Characteristics of Indian Health System

- Complex mixed health system
 - Publicly financed government health system
 - Fee-levying private health sector

Different Phases of Indian Health System Development



- Pre-independence phase
- Development centred phase
- Comprehensive Primary Health Care phase
- Neoliberal economic and health sector reform phase
- Health systems phase



Main Systems of Medicine

- Western allopathic
- Ayurveda
- Unani
- Siddha
- Homeopathy



Government Health System

Three levels of responsibilities-

First-

- Health is primarily a state responsibility

Second-

- The central government is responsible for developing and monitoring national standards and regulations
- Sponsoring various schemes for implementation by state governments
- Providing health services in union territories

Third-

- both the centre and the states have a joint responsibility for programmes listed under the concurrent list.



Administrative Structure

1. Central Ministries of Health and Family Welfare –
 - Responsible for all health related programmes
 - Regulatory role for private sector
2. State Ministries of Health and Family Welfare
3. District Health Teams headed by Chief Medical and Health Officer



Service Delivery Structure

- Sub Health Centres-
staffed by a trained female health worker and/or a male health worker for a population of 5000 in the plains and a population of 3000 in hilly and tribal areas.
- Primary Health Centres-
staffed by a medical officer and other paramedical staff for a population of 30,000 in the plains and a population of 20,000 in hilly, tribal and backward areas. A PHC centre supervises six to eight sub centres.



Service Delivery Structure

- Community health centres- with 30-50 beds and basic specialities covering a population of 80,000 to 120,000. The CHC acts as a referral centre for four to six PHCs.
- District/General hospitals- at district level with multi speciality facilities (City dispensaries)
- Medical colleges, All India institute of Medical Sciences and quasi government institutes (NIHFW and SIHFWs)



Health Financing Mechanisms..

- Revenue generation by tax
- Out of pocket payments or direct payments
- Private insurance
- Social insurance
- External Aid supported schemes

Spending on Health

- Annually over 150,000 crores or US\$34 billion, which is 6% of GDP (Government spending on health is only 0.9% of GDP)
- Out of this only 15 % is publicly financed 4% from social insurance, 1% by private insurance remaining 80% is out of pocket spending (85% of which goes in private sector)
- Only 15% of the population is in organised sector and has some sort of social security the rest is left to the mercy of the market



The Aspects of Neoliberal Economic Reforms Affecting Public Health

- Increasing unregulated privatisation of the health care sector with little accountability to patients
- Cutting down government Health care expenditure
- Systematic deregulation of drug prices resulting in skyrocketing prices of drugs and rising cost of health services
- Selective intervention approach instead comprehensive primary health care
- Measure diseases in terms of cost effectiveness
- Techno centric approach(emphasis on content instead processes)



Contradictions

- India has the largest numbers of medical colleges in the world
- It produces the largest numbers of doctors among developing countries
- It gets “medical Tourists” from developed countries
- This country is fourth largest producer of drugs by volume in the world



But... the current situation....

- Only 43.5% children are fully immunised.
- 79.1% of children from 6 months to 5 years of age are anaemic.
- 56.1% ever married women aged 15-49 are anemic.
- Infant Mortality Rate is 58/1000 live births for the country with a low of 12 for Kerala and a high of 79 for Madhya Pradesh.
- Maternal Mortality Rate is 301 for the country with a low of 110 for Kerala and a high of 517 for UP and Uttaranchal in the 2001-03 period.



- ❖ Two thirds of the population lack access to essential drugs.
- ❖ 80% health care expenditure born by patients and their families as out-of -pocket payment (fee for service and drugs)
- ❖ Health inequalities across states, between urban and rural areas, and across the economic and gender divides have become worse
- ❖ Health, far from being accepted as a basic right of the people, is now being shaped into a saleable commodity

Contd....

- poor are being excluded from health services
- Increased indebtedness among poor
(Expenditure on health care is second major cause of Indebtedness among rural poor)
- Difference across the economic class spectrum and by gender in the untreated illness has significantly increased
- Cutbacks by poor on food and other consumptions resulting increased illnesses and increasing malnutrition

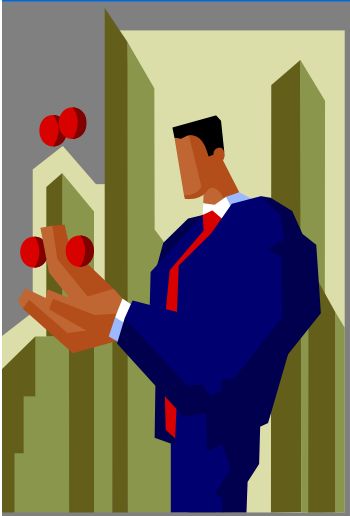
Health Inequities

- The infant mortality Rate in the poorest 20% of the population is 2.5 times higher than that in the richest 20% of the population
- A child in the 'Low standard of living' economic group is almost four times more likely to die in childhood than a child in a better or high standard living group
- A person from the poorest quintile of the population, despite more health problems, is six times less likely to access hospitalization than a person from richest quintile.



Health Inequities

- A girl is 1.5 times more likely to die before reaching her fifth birthday
- The ratio of doctors to population in rural areas is almost six times lower than that for urban areas.
- Per person, government spending on public health is seven times lower in rural areas compared to government spending urban areas



Juggling
Priorities



Pop. Policy Draft 1976

**Small pox free-July 5,
1975 & ICDS started**

MTP Act(1969) in force-1972

MTP Act-1969

Birth & Death Reg. Act-1969

Dept. of Family welfare -1966

NSEP-1962

NMCP to NMEPP-1958

CHEB-1956

BCG Vaccination-1951

NMCP & NFPP-1951

India joins WHO- 1948

1947

HSDC-1946



ICDS renamed Integrated Mother and Child Development (IMCD) -1995

CSSM-1992

National Blood safety program- 1989

National Aids Control Program -1987

UIP-1985

NLCP-NLEP, 1983

NHP-1983

Alma Ata-Declaration(1977)-HFA-2000

NFWP-1977



NRHM-2005

National Health Policy- 2002

National Pop. Policy- 2000

RCH-1997

Family Planning Program made
target free -1996

Beijing conference-1995

Legislation on Transplantation of human
organs enacted 1995

ICPD-1994



Public Health Care in India

- Well developed administrative system
- Skills
- Reasonable Infrastructure

Something is wrong

- Poor health outcomes
- Design
- Misdirected efforts

1999 Plague epidemic-loss of \$ 1 billion (WHO)



“Ten Great Public Health Achievements of the 20th Century”

- Vaccination
- Motor-vehicle safety
- Safer workplaces
- Control of infectious diseases
- Decline in deaths from coronary heart disease and stroke
- Safer and healthier foods
- Healthier mothers and babies
- Family planning
- Fluoridation of drinking water
- Recognition of tobacco use as a health hazard

Source: Center for Disease Control, *Morbidity and Mortality Weekly Report*, 48(12) 241-243 (April 2, 1999)



But we have known this for 64 years

“If it were possible to evaluate the loss, which this country annually suffers through the avoidable waste of valuable human material and the lowering of human efficiency through malnutrition and preventable morbidity, we feel that the results would be so startling that the whole country would be aroused and would not rest until a radical change has been brought about.”



After 64 years of Health Services:

- Crude Death Rate ↓
- Crude birth rate ↓
- Life expectancy ↑
- S.pox & G. worm eradicated
- Leprosy eliminated
- IMR ↓
- Infrastructure – expanded



Health care in India

- Entitlements by policy and not rights
- Focus on preventive and promotive care
- Grossly under-provided facilities
- Poor investments hitherto
- Declining public expenditures and new investments
- Structural Adjustment programming under World Bank dictate



Major Programs

- National AIDS Control Program
- National Cancer Control Program
- National Diarrheal Disease Control Program
- National Filaria Control Program*
- National Family Welfare Program
- National Iodine Deficiency Disorders Control Program
- National Leprosy Eradication Program



- National Malaria Eradication Program*
- National Program for Control of Blindness & Visual Impairment
- National Reproductive and Child Health Program
- National Program for surveillance Program for Communicable diseases
- National Tuberculosis Control Program (Revised)

(Programs are merged into*

National Vector Borne Disease Control Program since 2003-04)

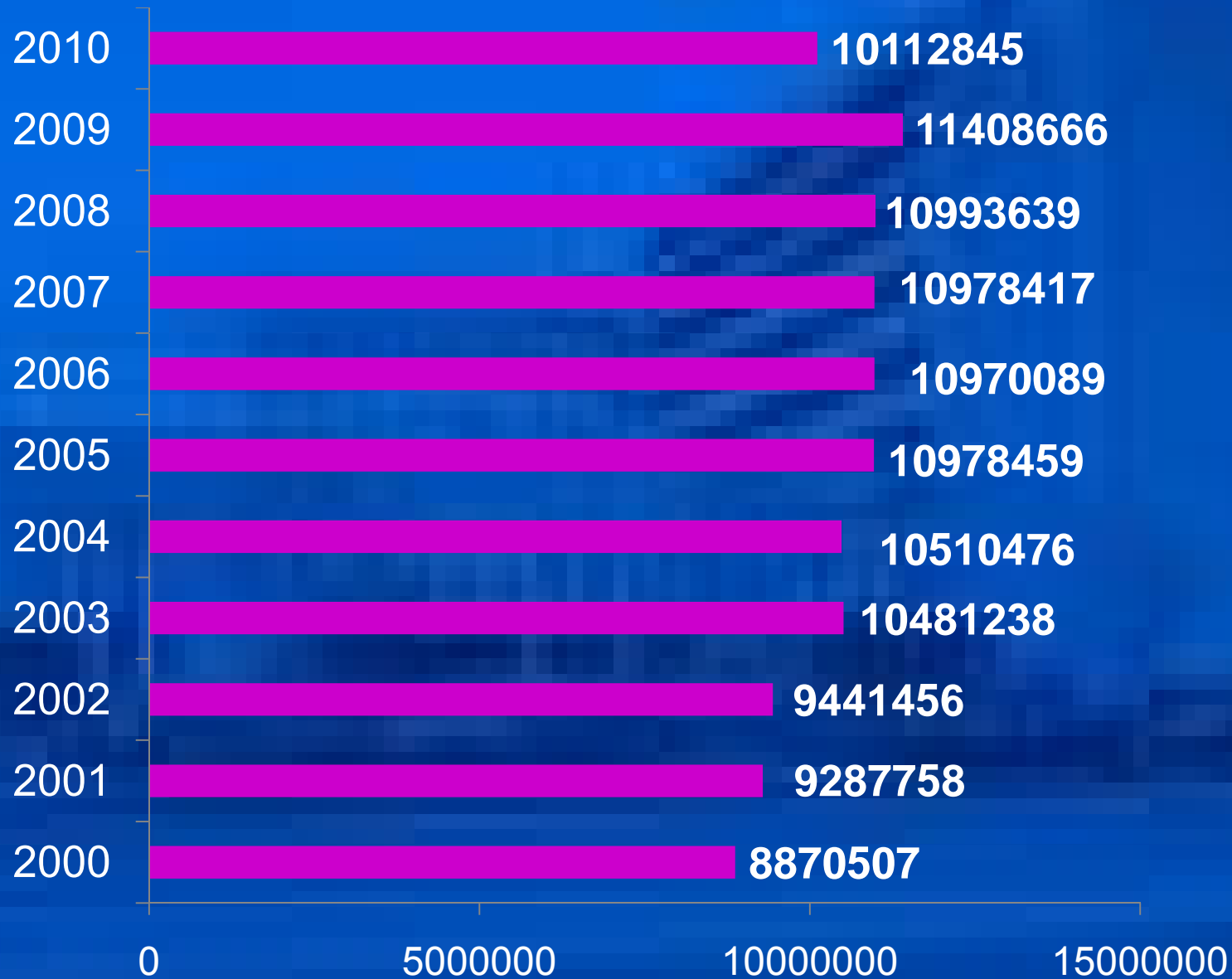


Epidemiological Profile

Diarrhea Cases



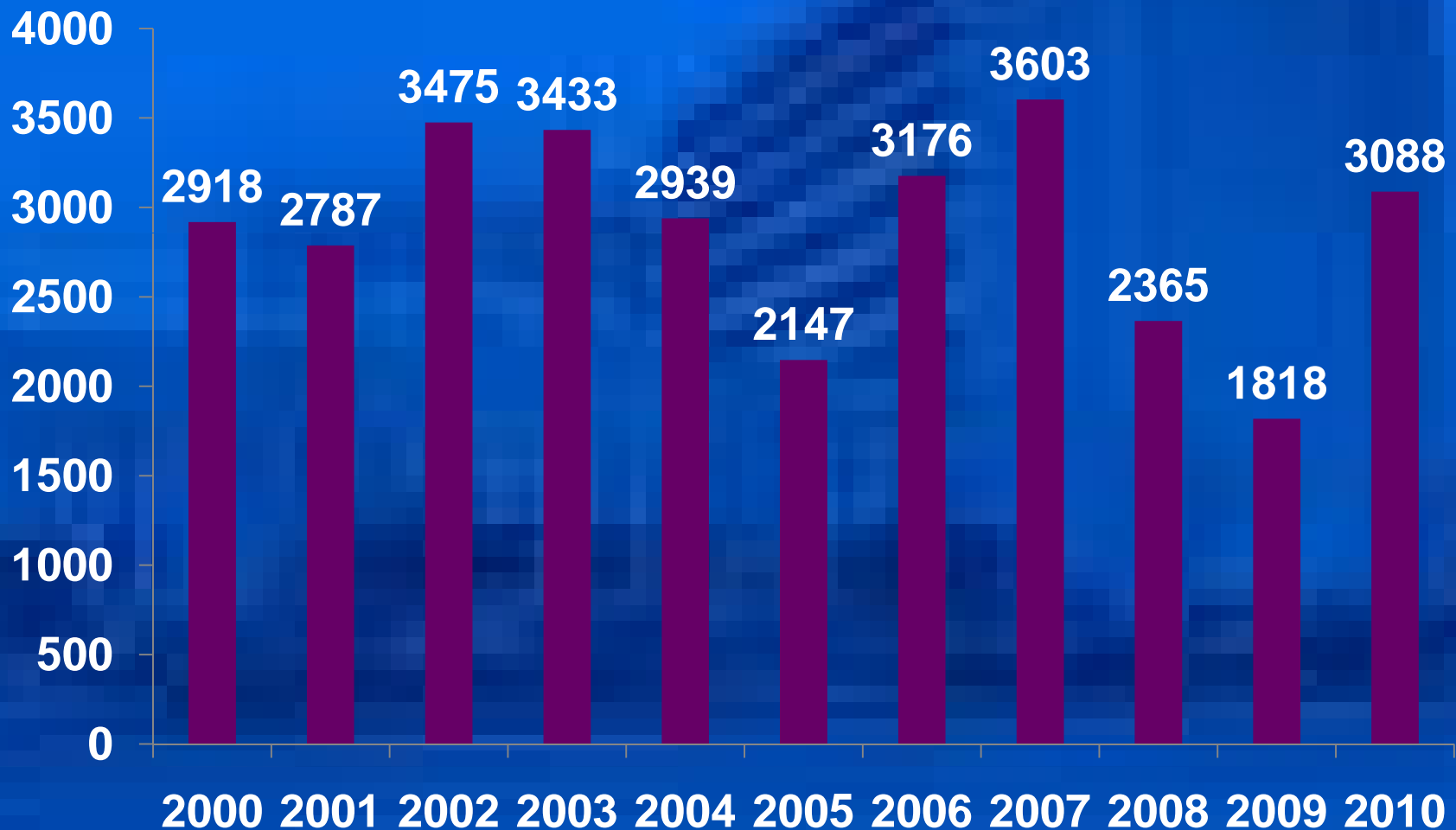
Source: CBHI, NHP-2010 and MOHFW





Diarrhea Deaths

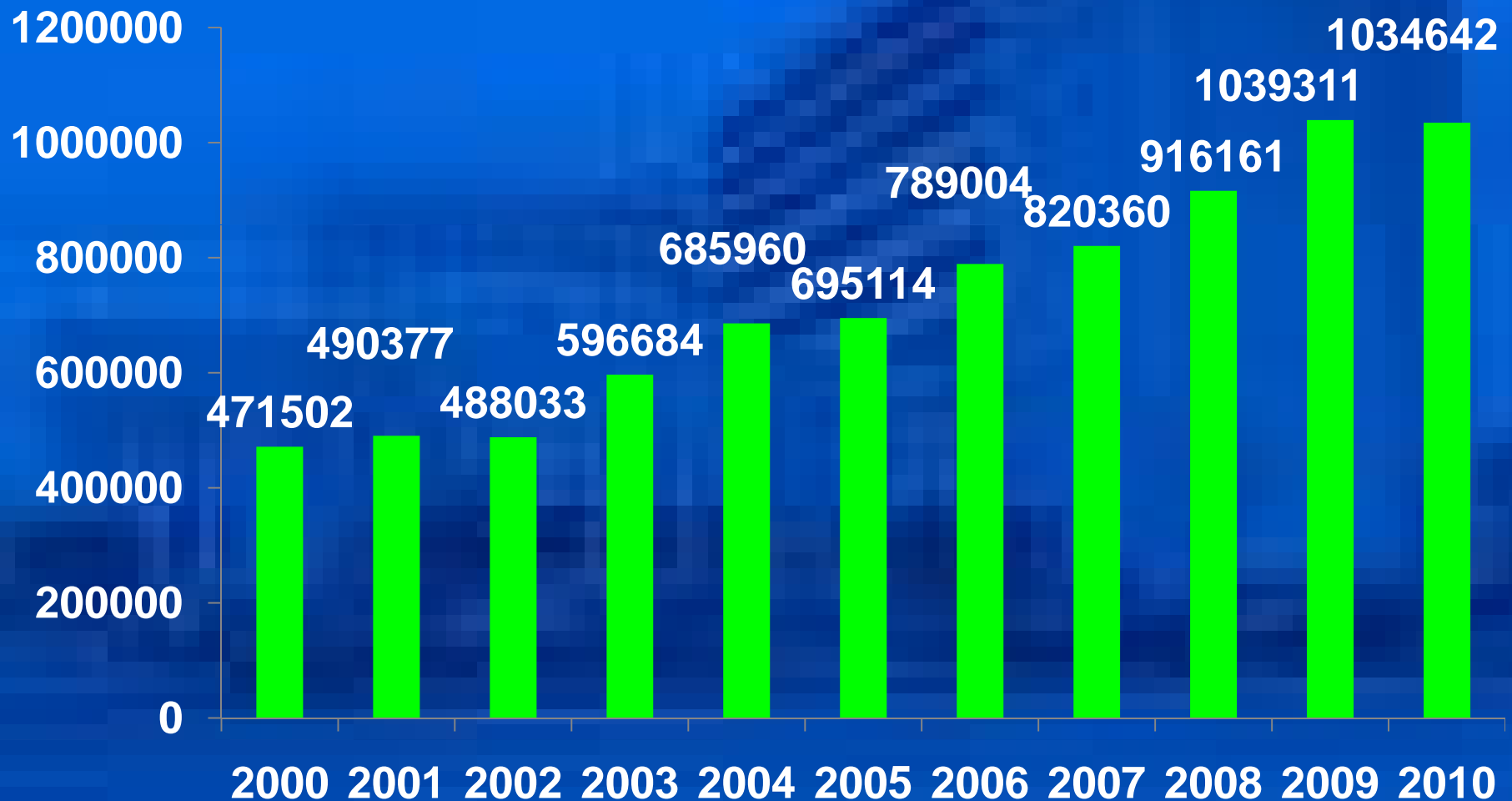
Source: CBHI, NHP-2010 and MOHFW





Enteric Fever Cases

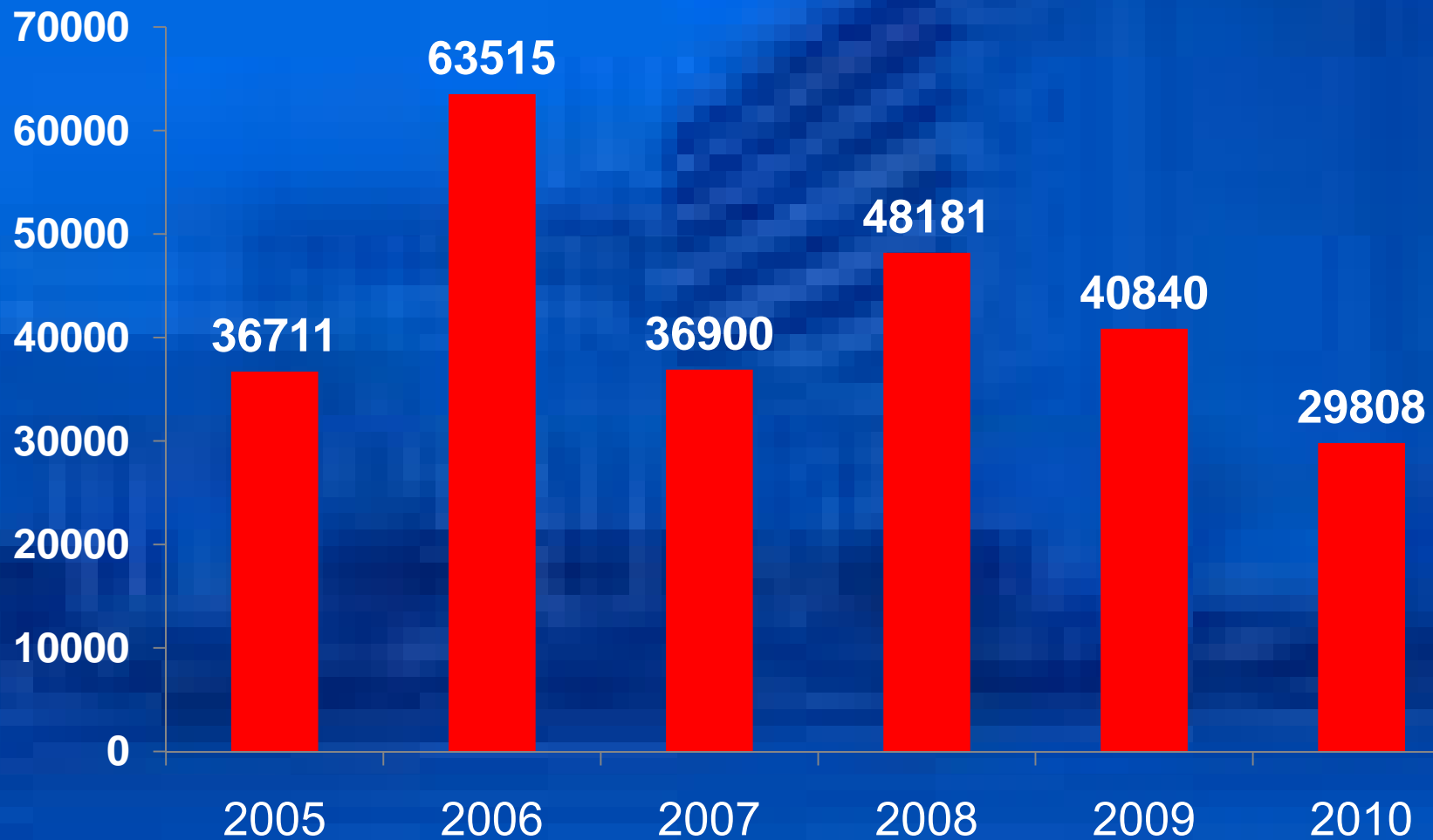
Source:CBHI,NHP-2010 and MOHFW





Measles Cases

Source:CBHI,NHP-2010 and MOHFW





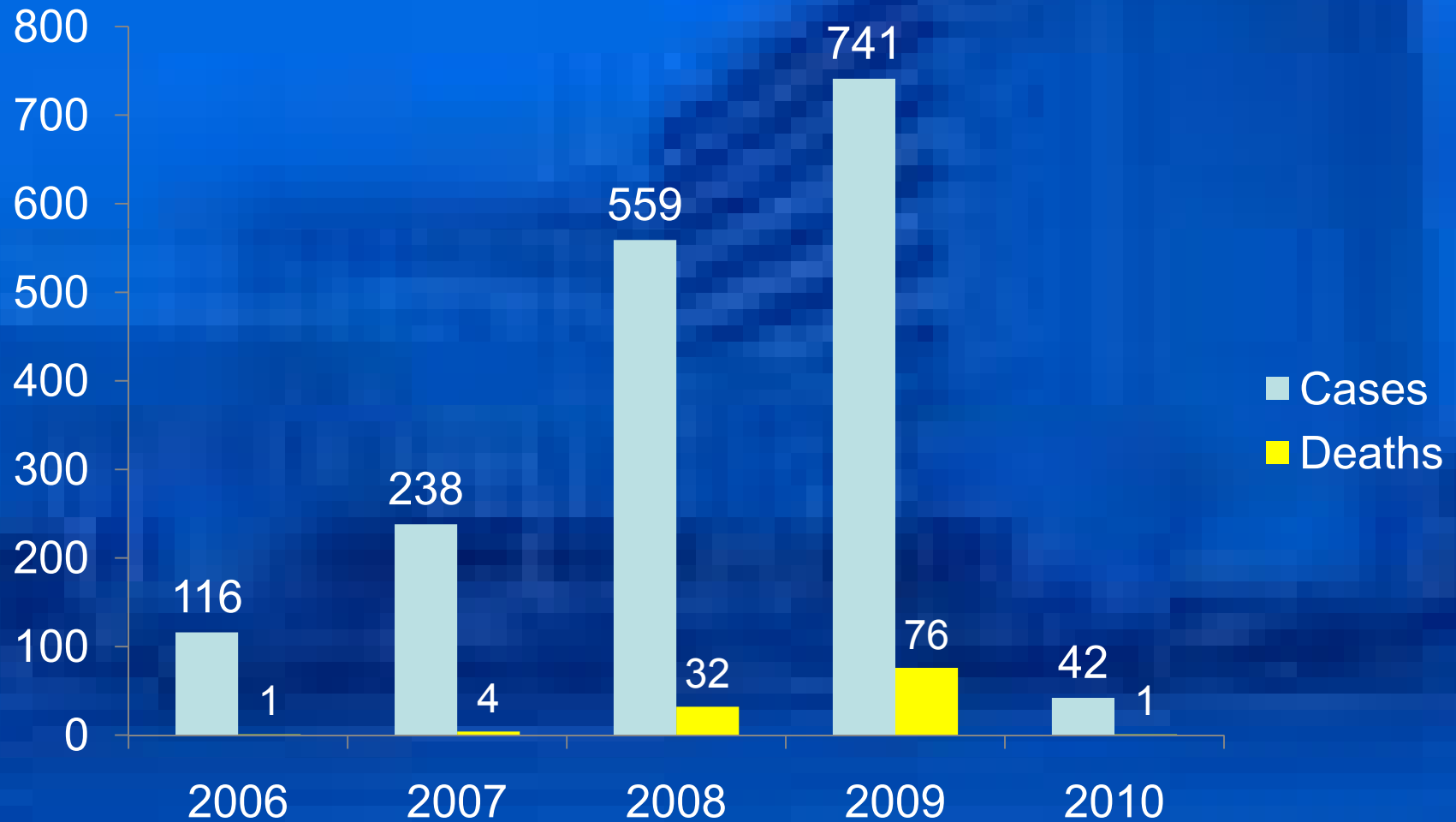
Measles deaths

Source:CBHI,NHP-2010 and MOHFW





Polio





ARI Cases

Source:CBHI,NHP-2010 and MOHFW





ARI Deaths

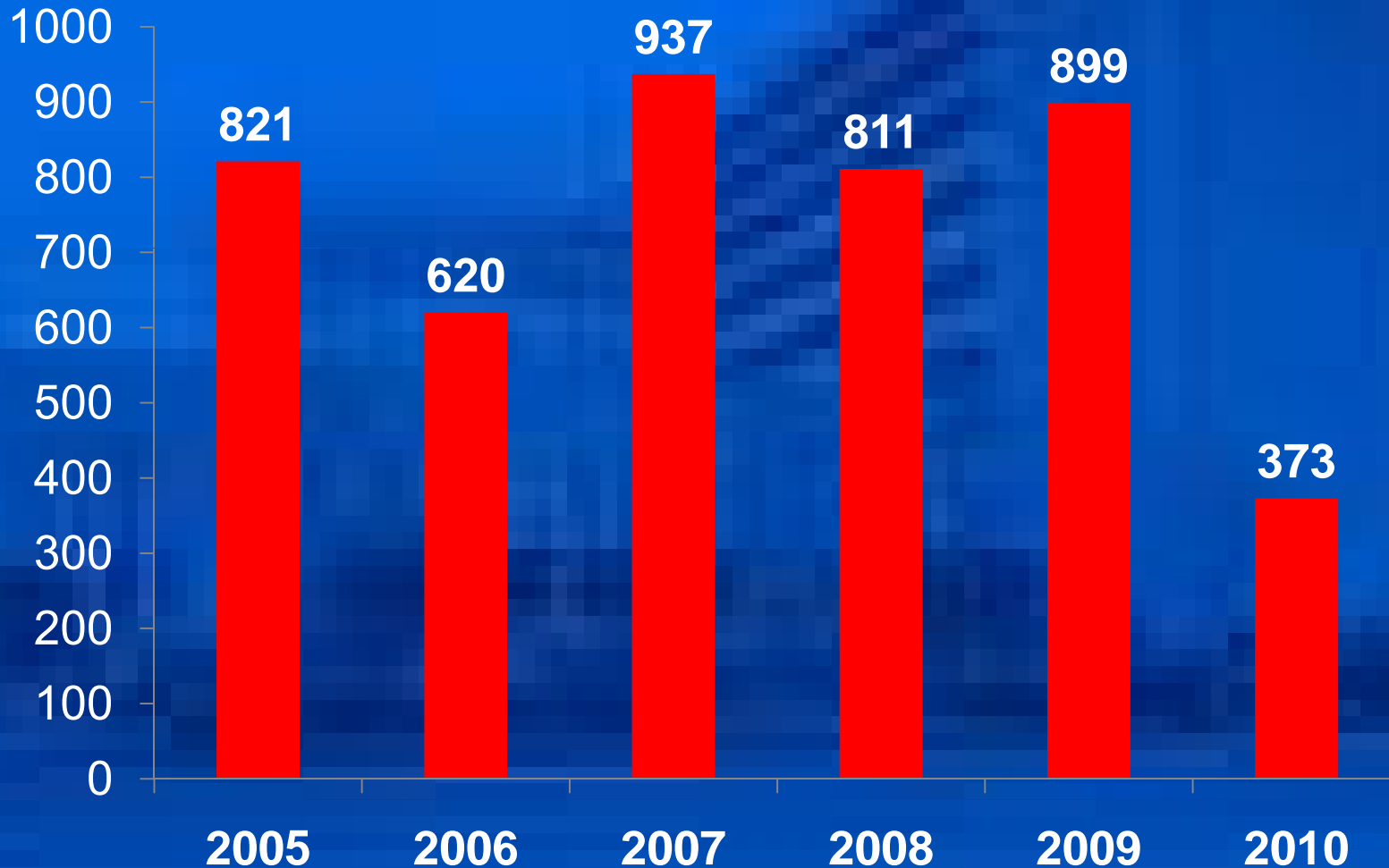
Source: CBHI, NHP-2010 and MOHFW





Neonatal tetanus Cases

Source: CBHI, NHP-2010 and MOHFW





Neonatal tetanus Deaths

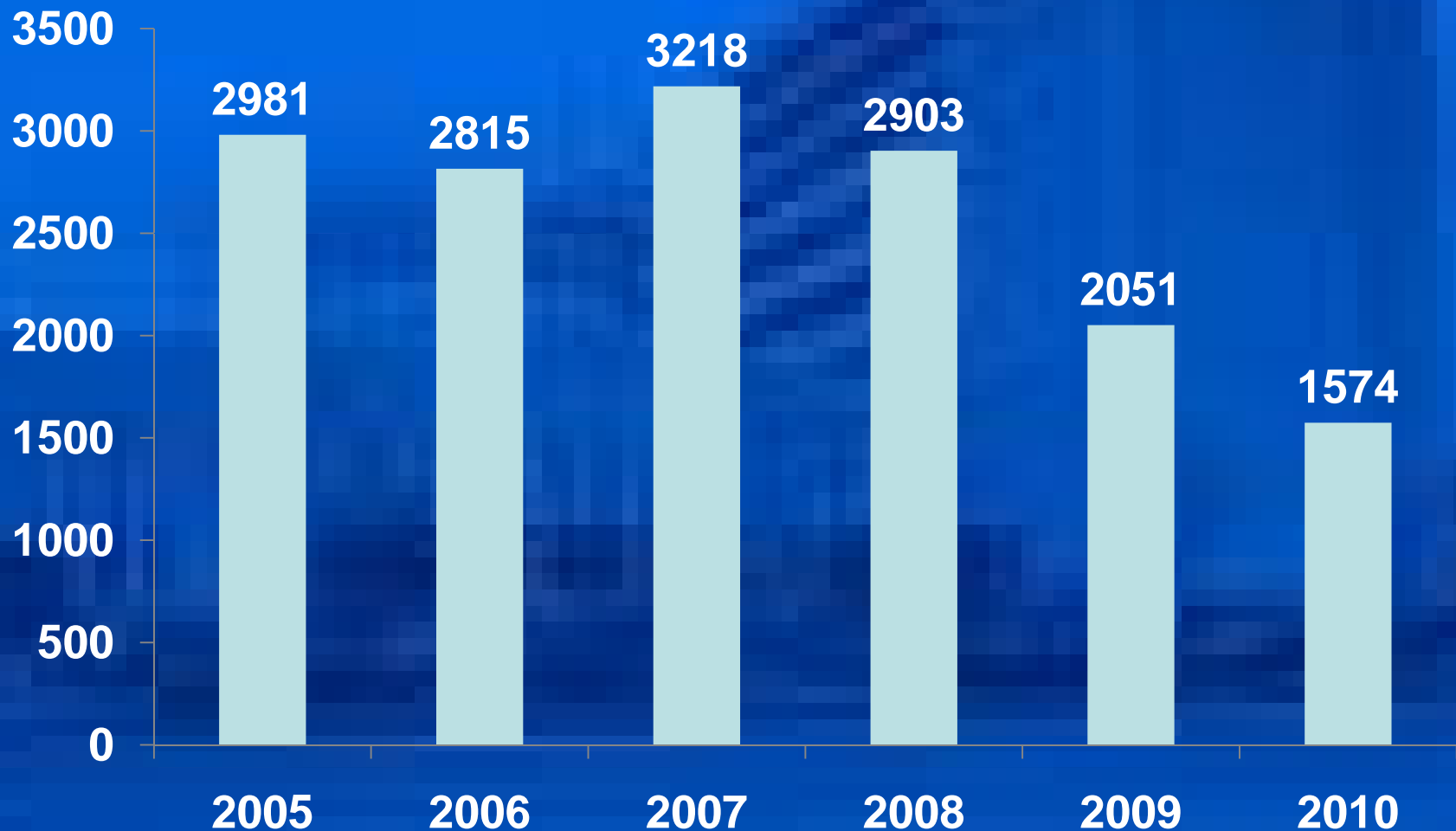
Source: CBHI, NHP-2010 and MOHFW



Tetanus other than Neonatal cases



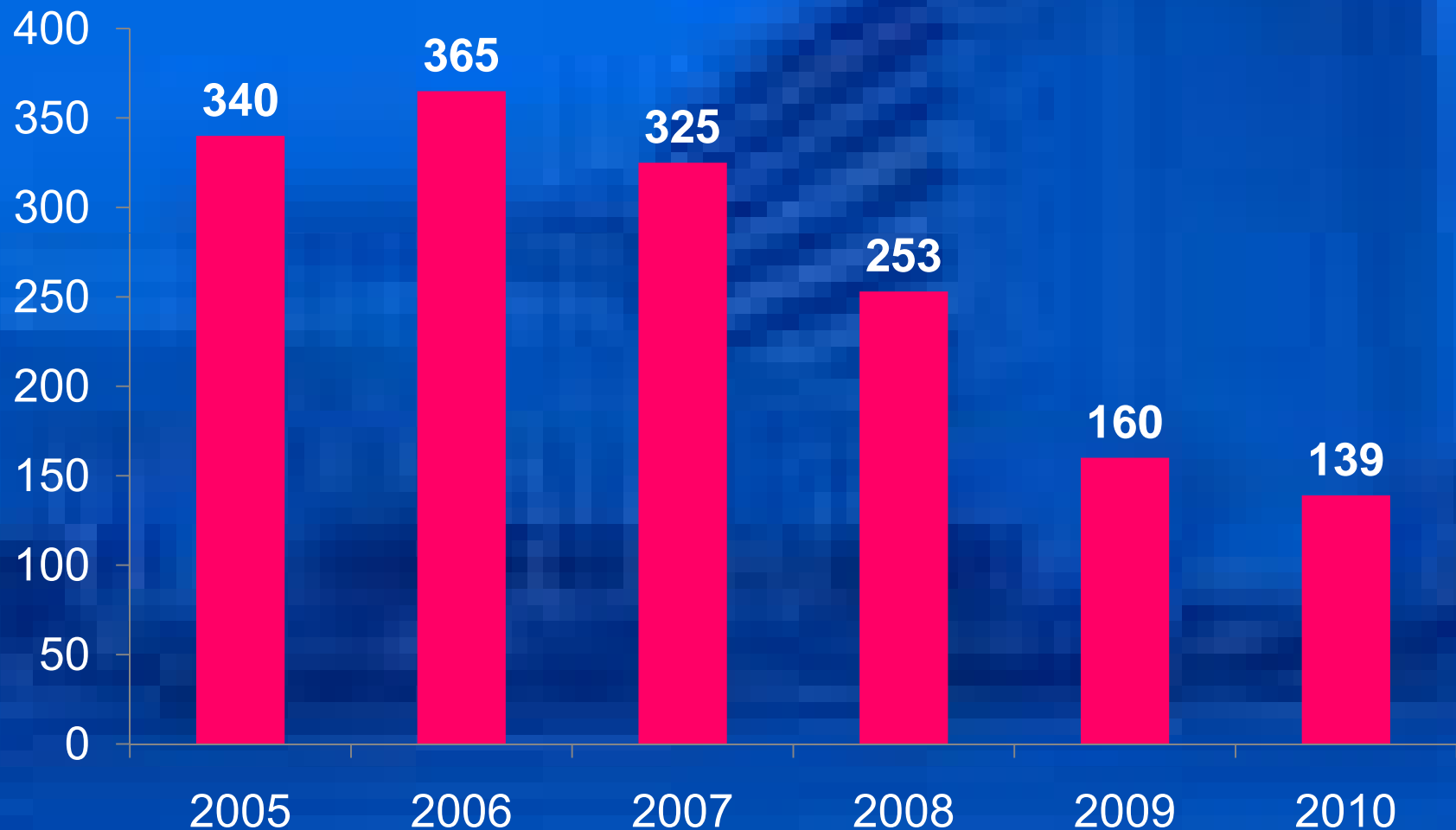
Source:CBHI,NHP-2010 and MOHFW



Tetanus other than Neonatal Deaths



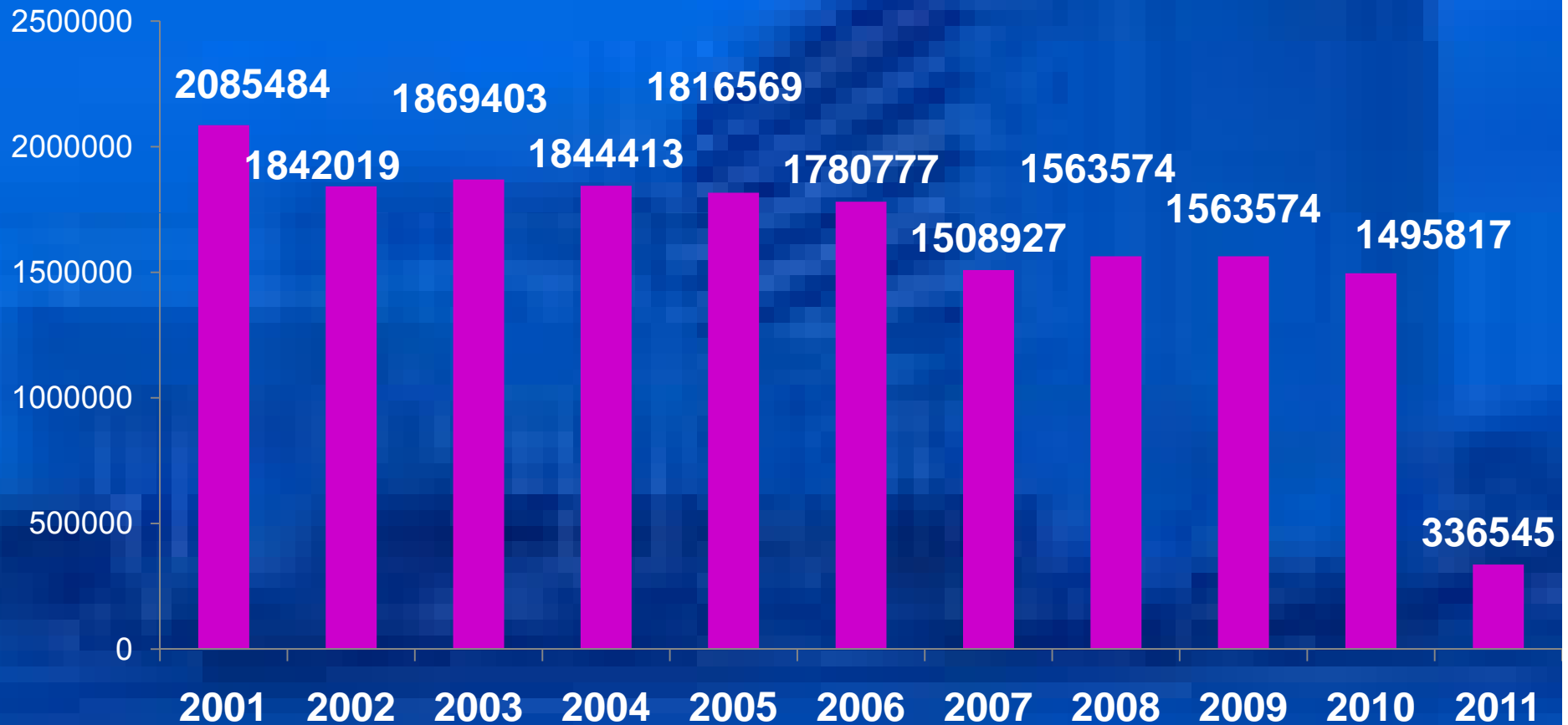
Source: CBHI, NHP-2010 and MOHFW





Malaria Cases : India

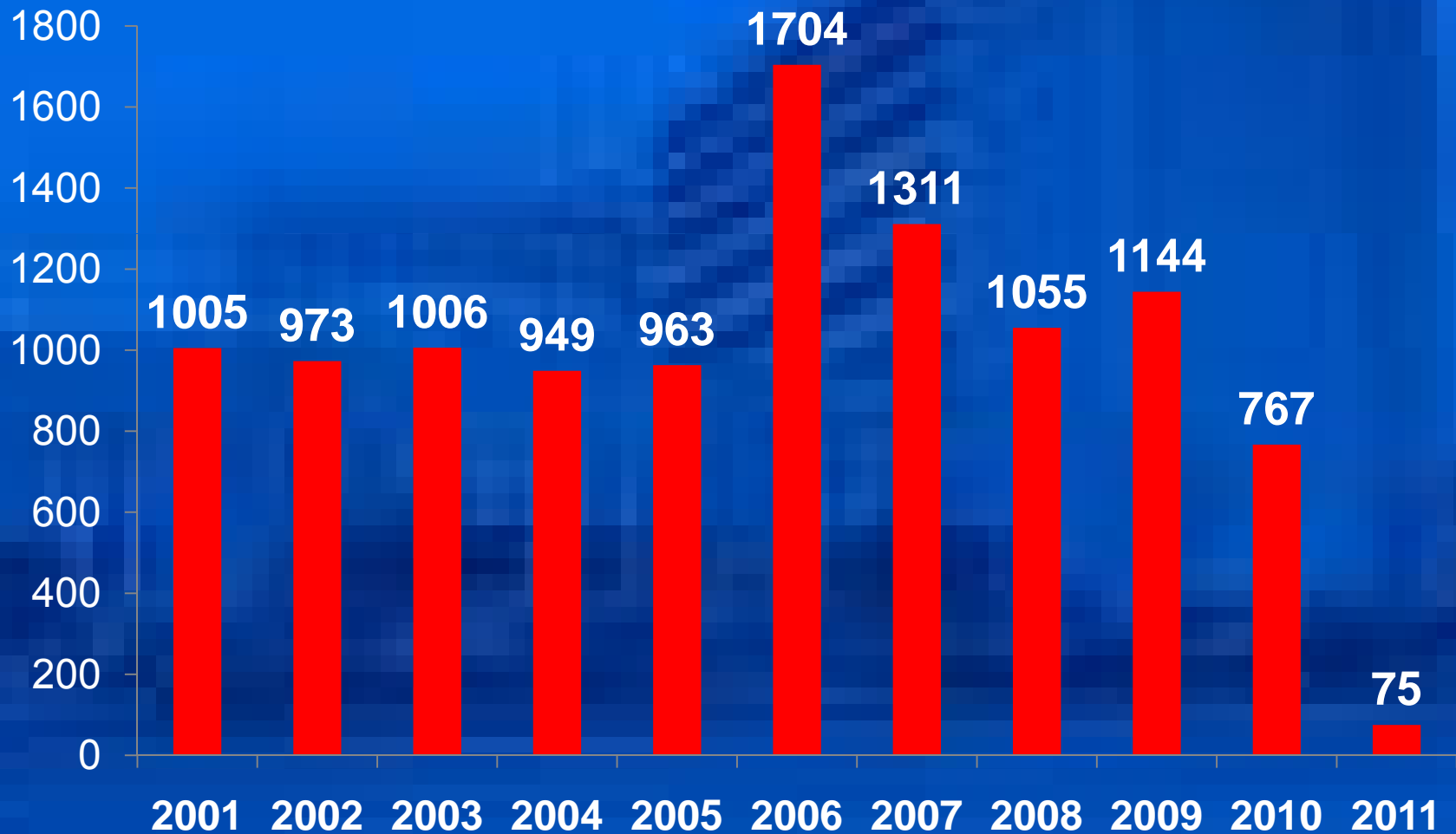
Source:CBHI,NHP-2010 and MOHFW





Malaria Deaths :India

Source:CBHI,NHP-2010 and MOHFW



Dengue Cases : India

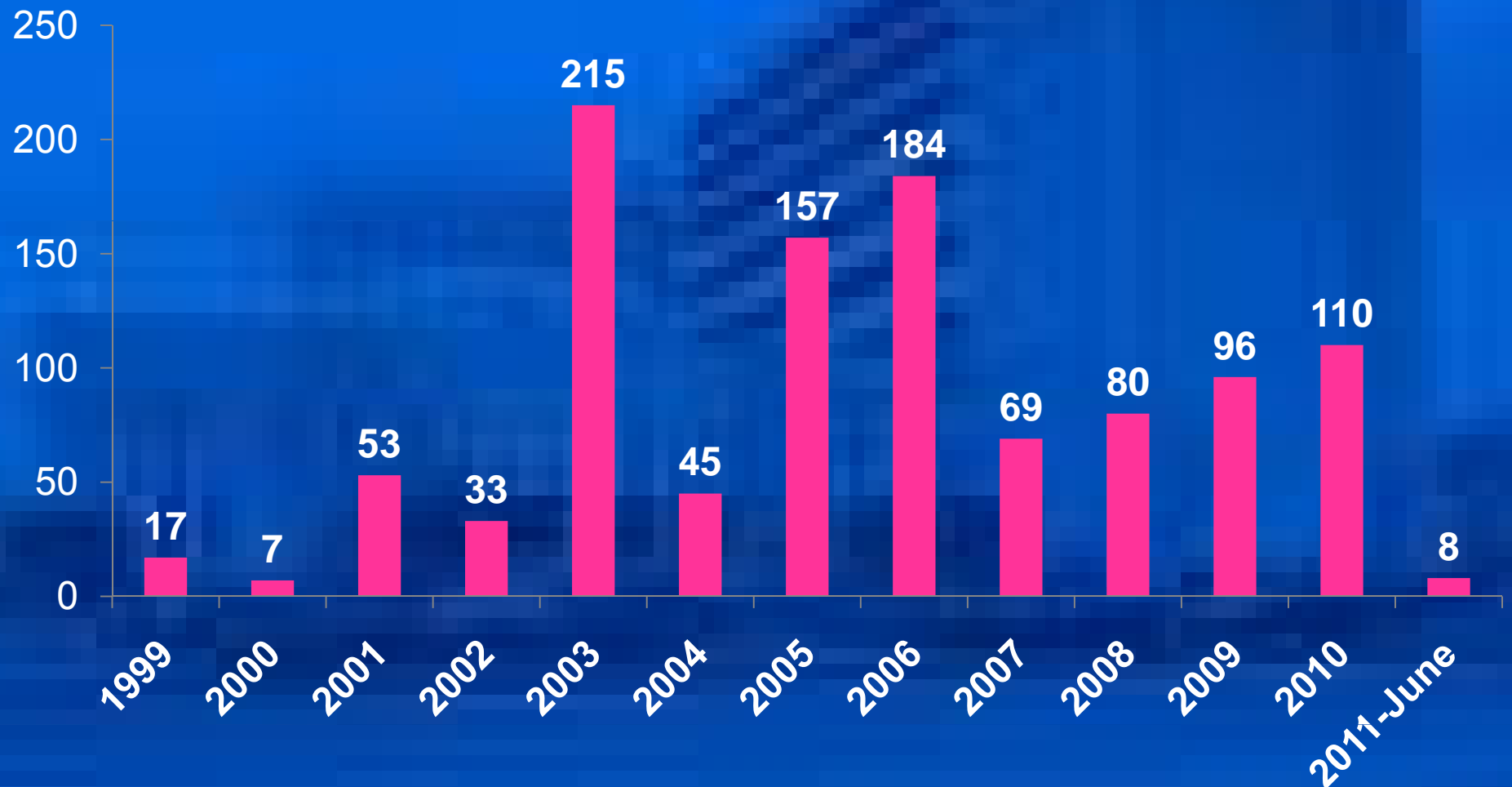
Source:CBHI,NHP-2010 and MOHFW



Dengue Deaths : India



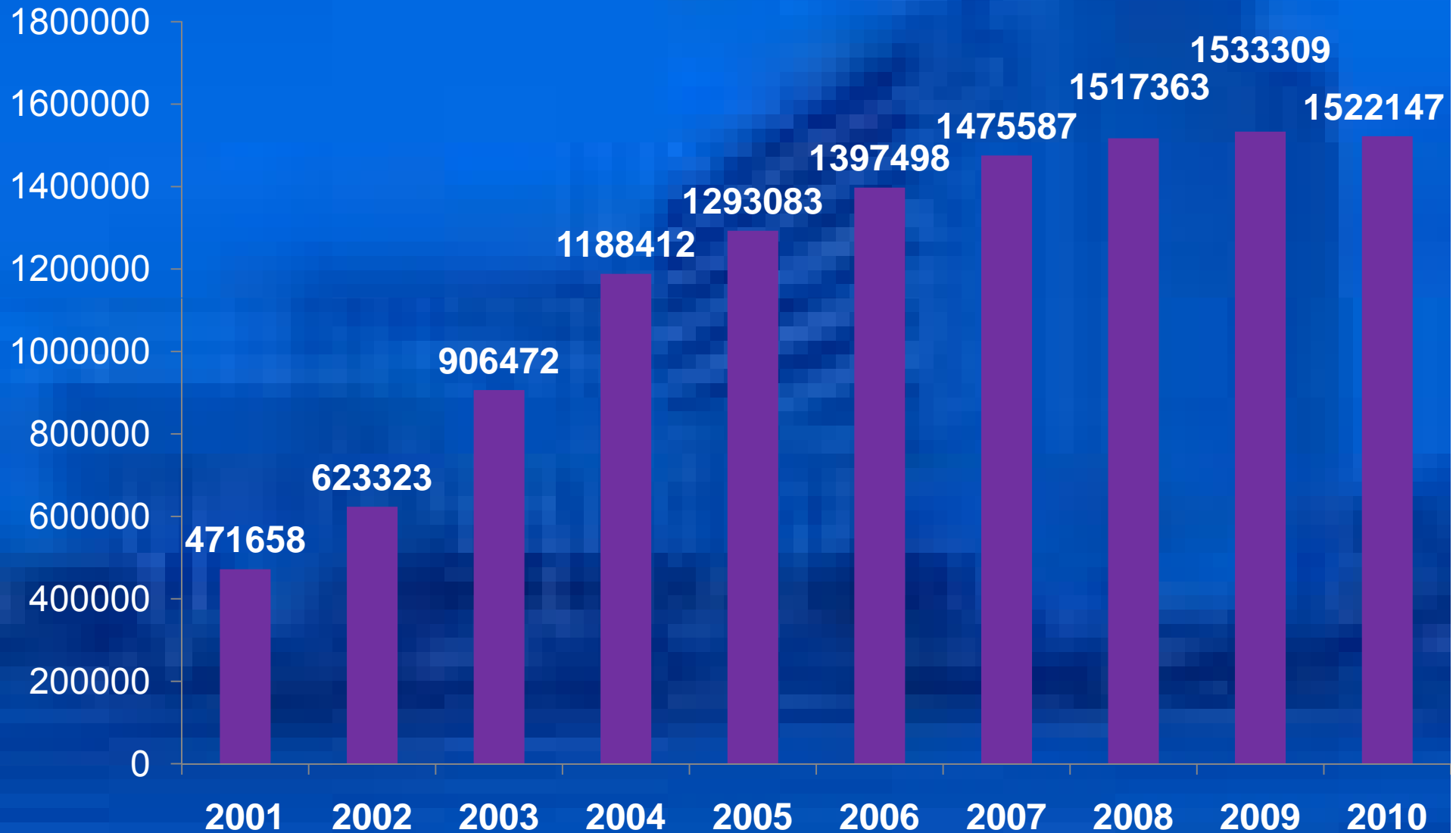
Source:CBHI,NHP-2010 and MOHFW





TB Cases : India

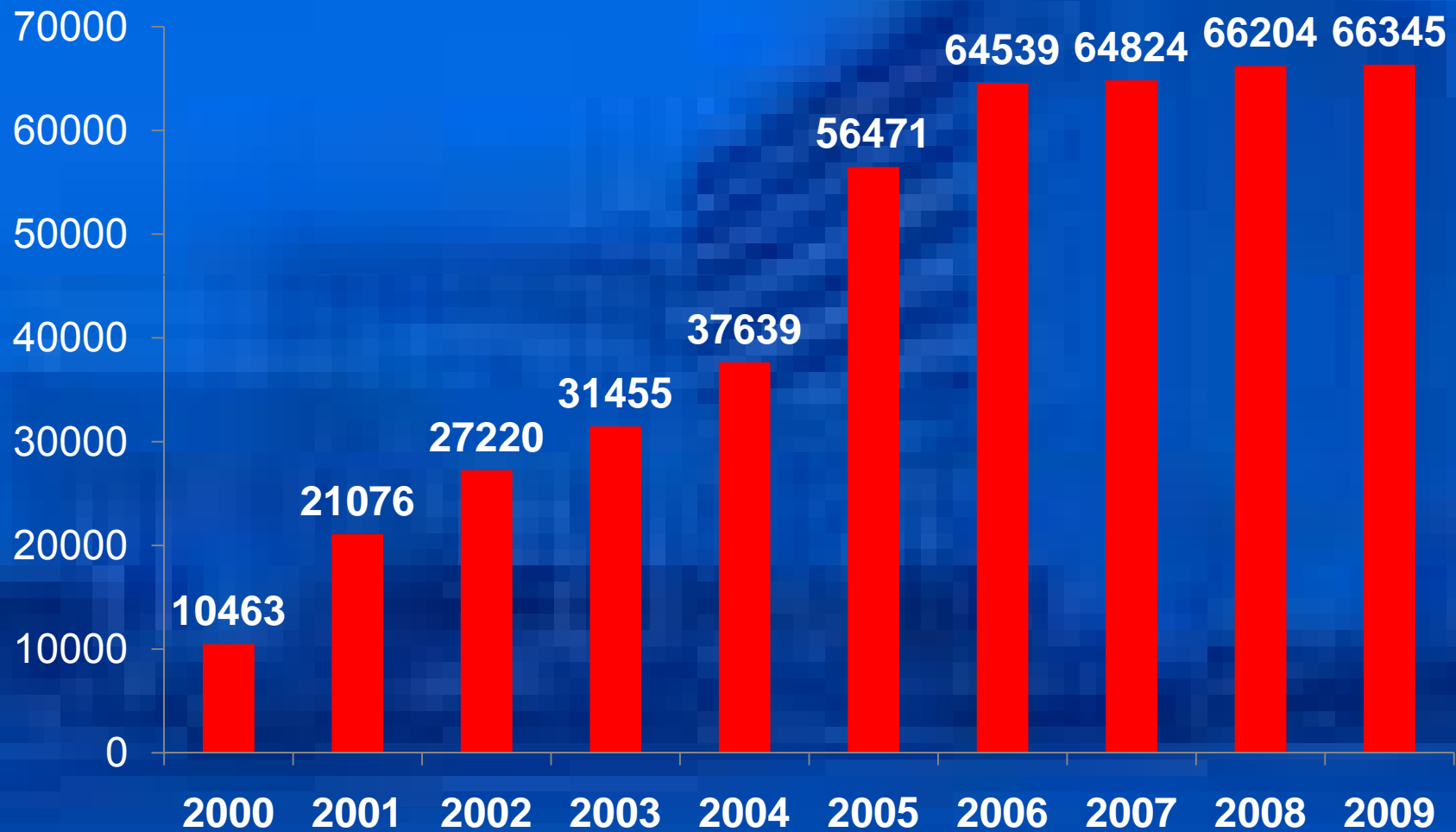
Source: CBHI, NHP-2010 and MOHFW





TB Deaths : India

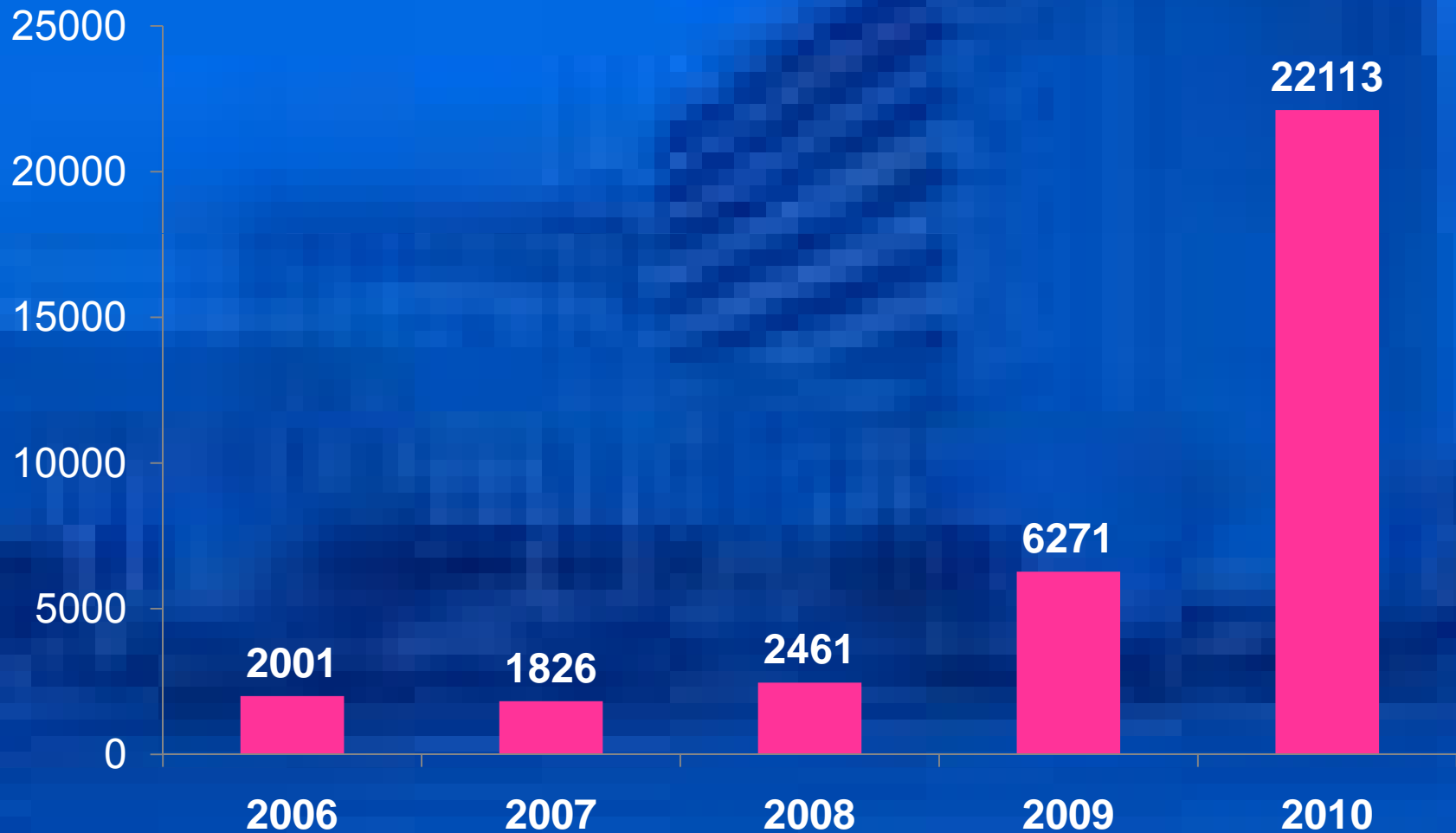
Source:CBHI,NHP-2010 and MOHFW





Chikungunya Cases : India

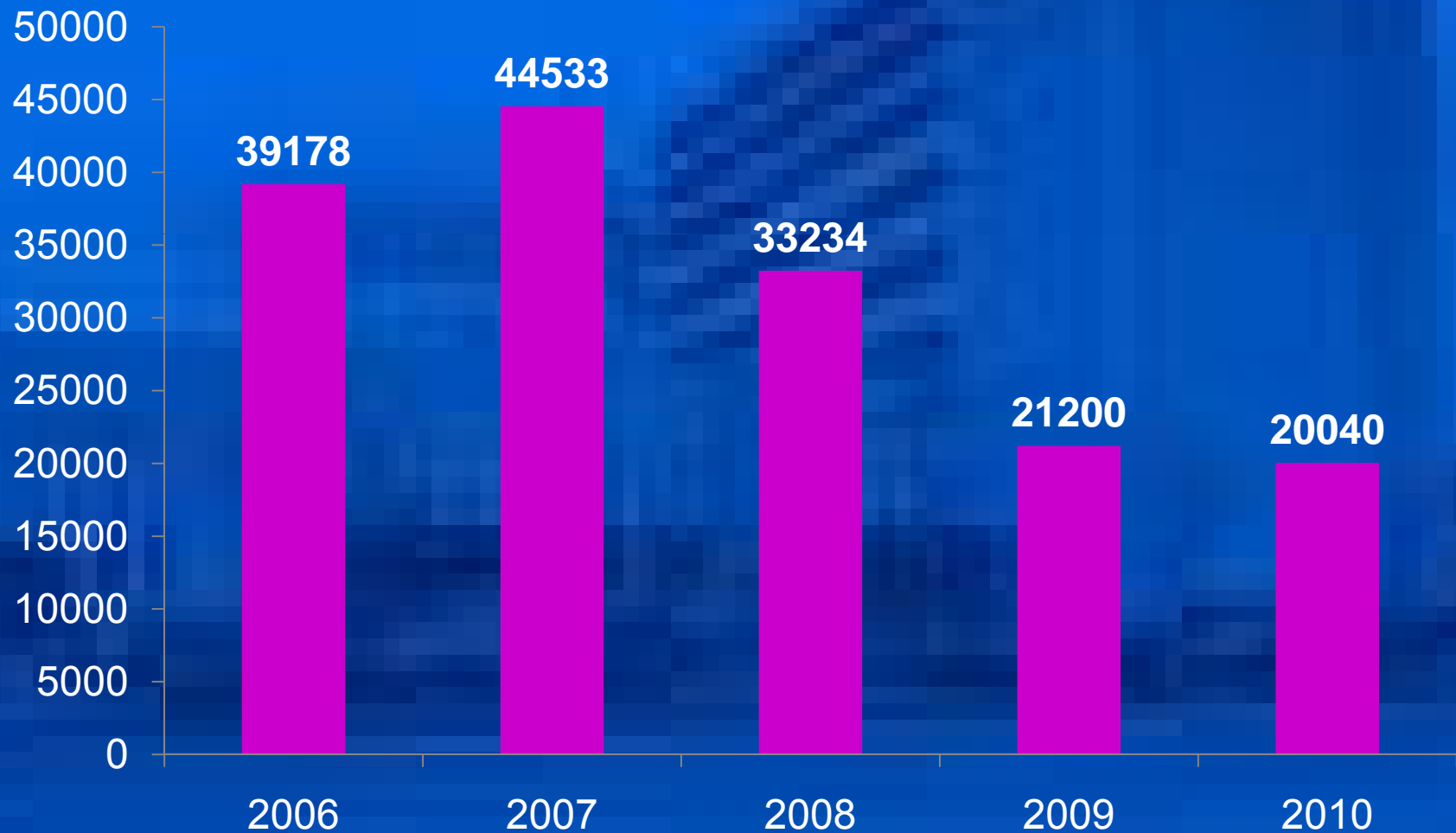
Source : NRHM India





Kala Azar Cases : India

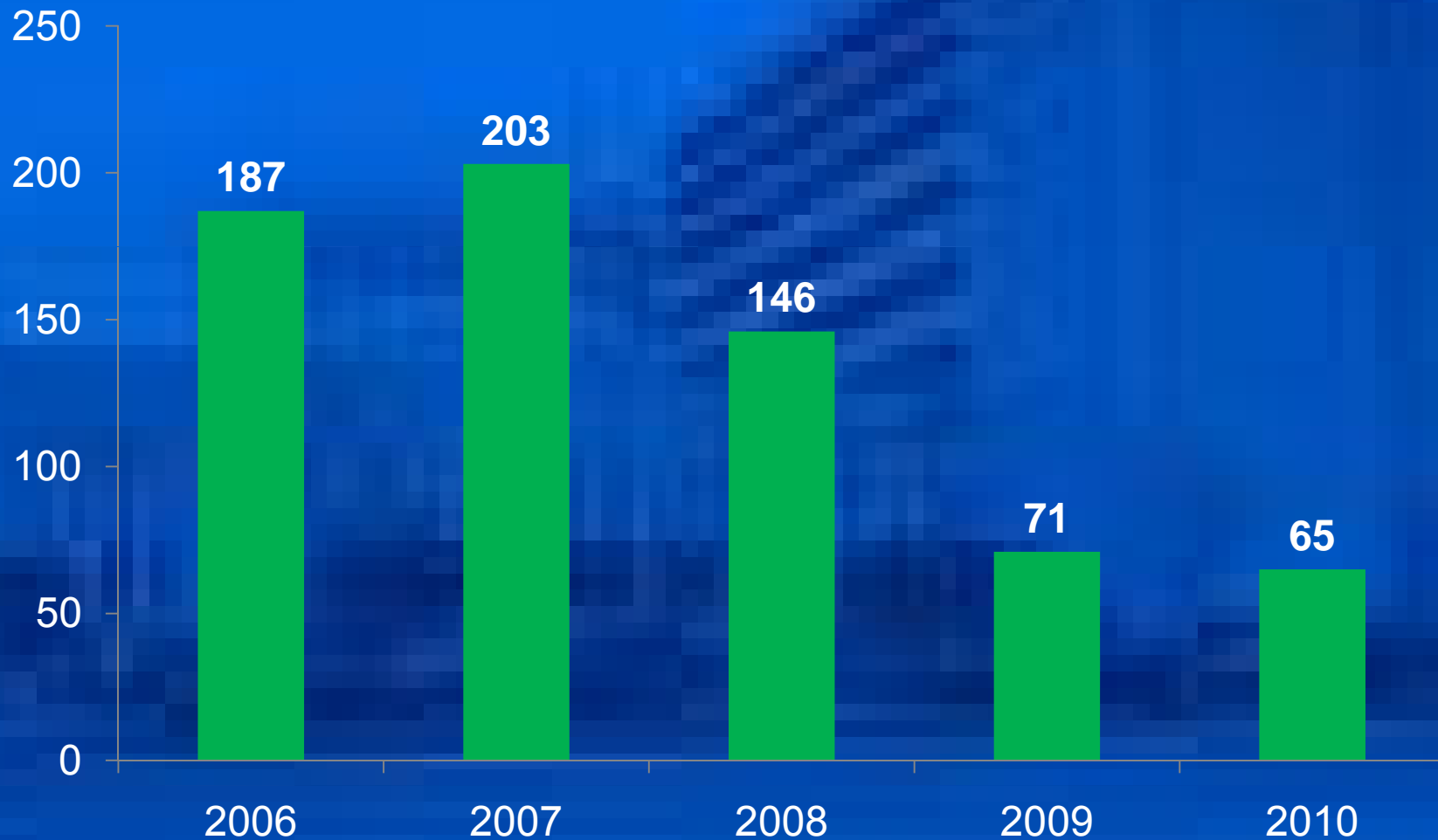
Source : NRHM India





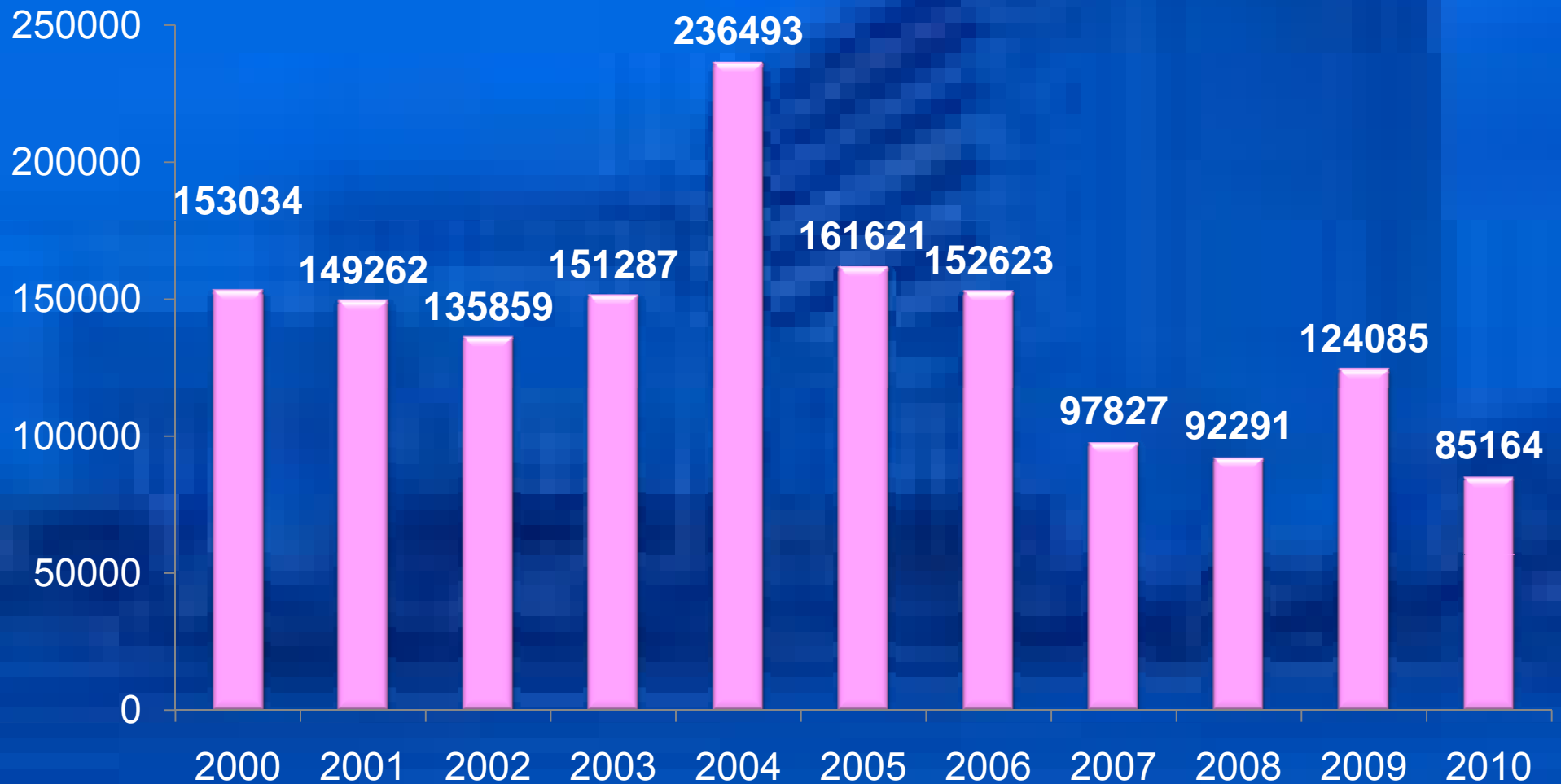
Kala Azar Deaths : India

Source : NRHM India



Viral Hepatitis Cases : India

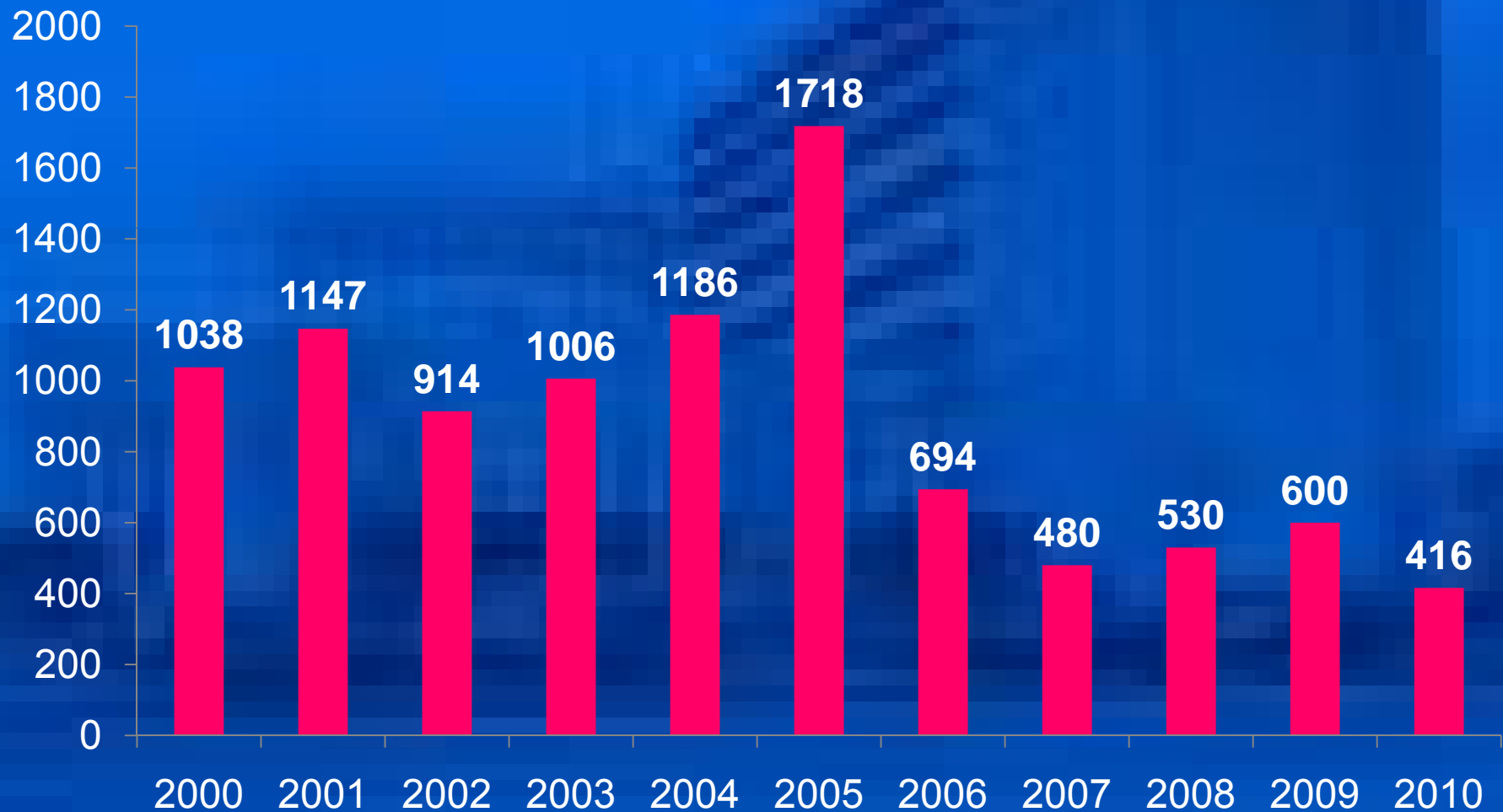
Source:CBHI,NHP-2010





Viral Hepatitis Deaths : India

Source:CBHI,NHP-2010





Thank You

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sihfwraj@yahoo.co.in