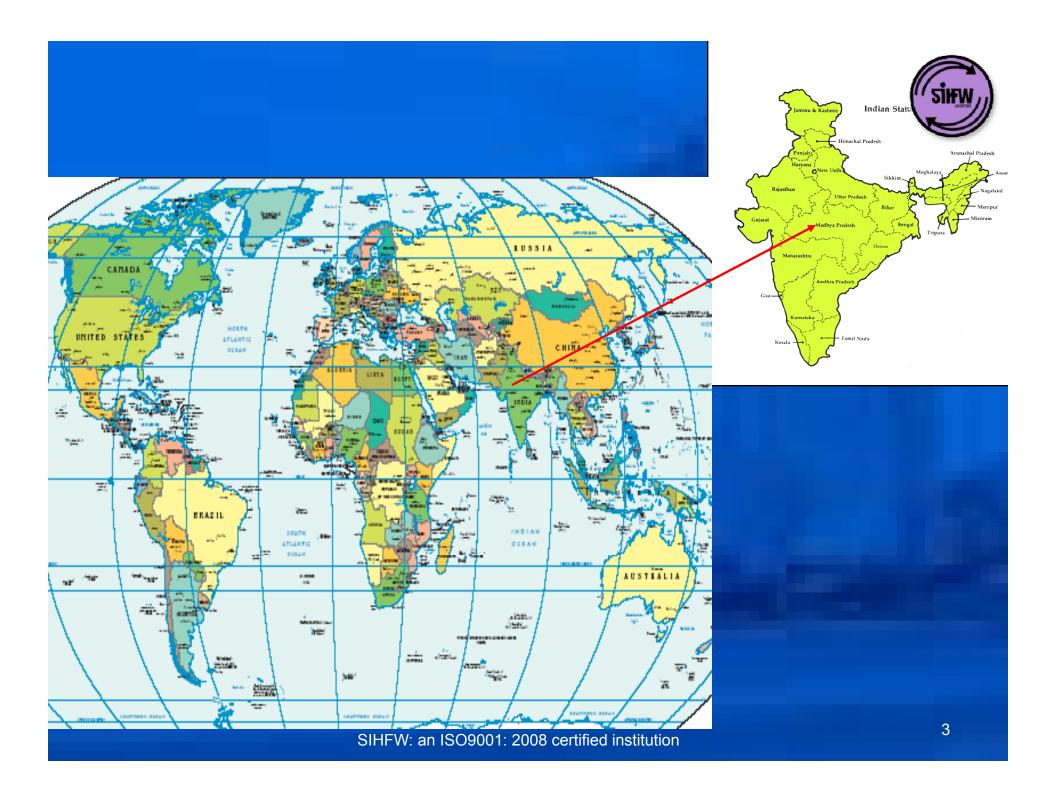


Public Health Care in India: Infrastructure, Expenditure, Human Resource and Performance

State Institute of Health and Family Welfare,

Jaipur







Health & Disease



Disease

Doctors,

Drugs, Diagnostics

Death



Health



Disability

Constitutional commitment: Health: State subject



- Central List

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



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

Health –State subject?

Five year Plan	Period	Major areas addressed
	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







Juggling Priorities

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)





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

"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

- 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 Multipurpose.
- Some Programs worked in complete isolation till 1980 (e.g. NTCP).
- Fragmented approach to Health

Goals to be Achieved by 2000–2015

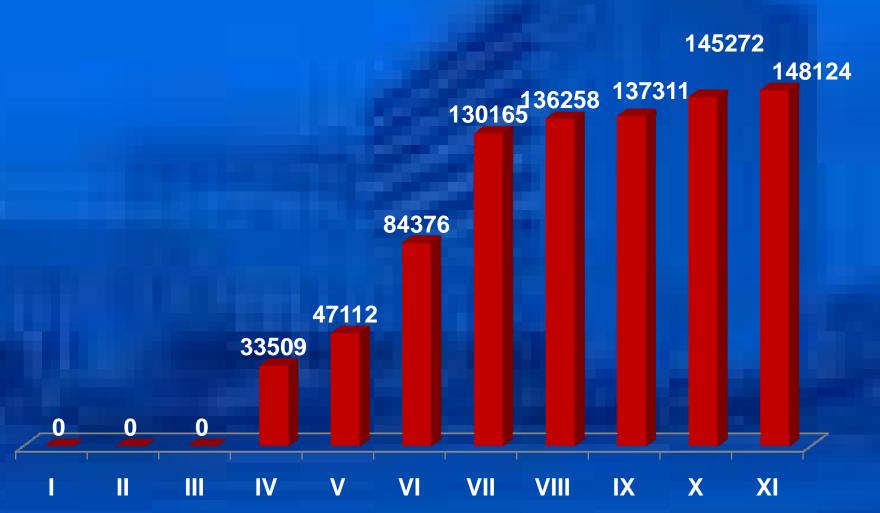


Eradicate Polio and Yaws	2005
Eliminate Leprosy	2005
Eliminate Kalazar	2010
Eliminate Lymphatic Filariasis	2015
Achieve Zero level growth of HIV/AIDS	2007
Reduce Mortality by 50% on account of TB, Malaria and Other Vector and Water Borne diseases	2010
Reduce Prevalence of Blindness to 0.5%	2010
Reduce 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





Sub Center over FYP - India



Source: RHS-2011



PHC over FYP - India



Source: RHS-2011

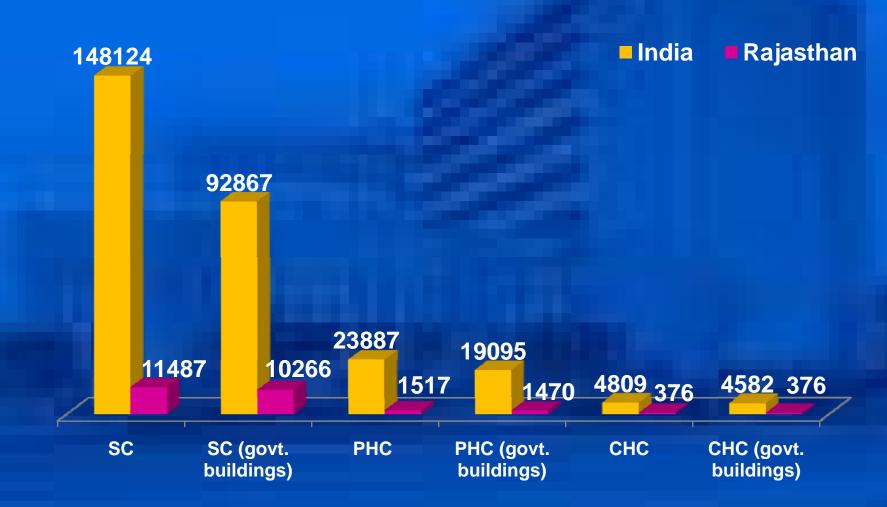


CHC over FYP - India

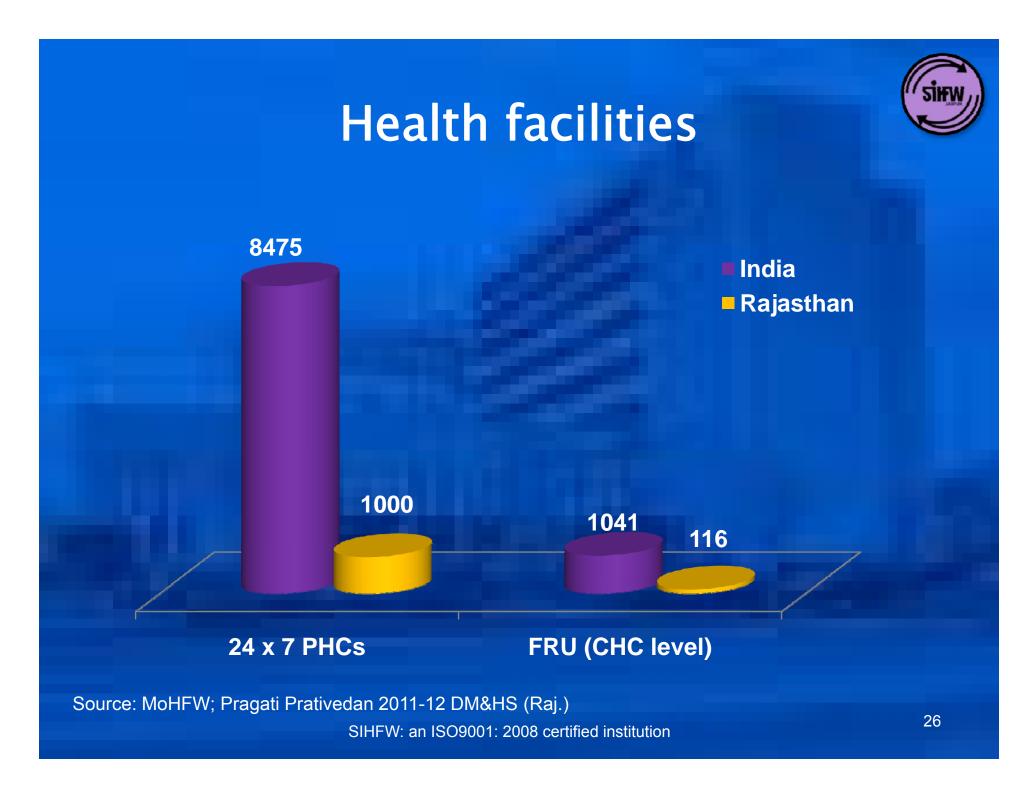


Source: RHS-2011

Health facilities in govt. buildings

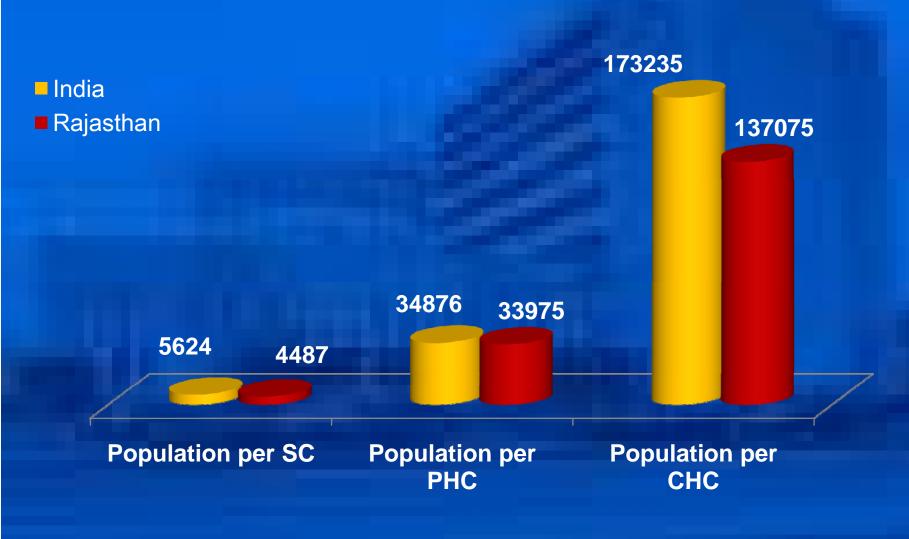


Source: RHS 2011





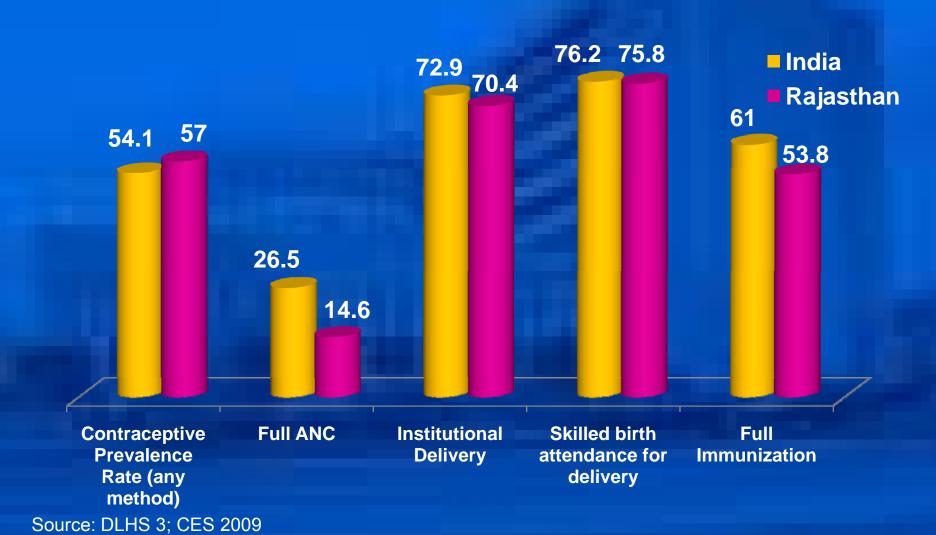
Population: Infrastructure



Source: RHS-2011



Healthcare Delivery Status



Healthcare Delivery Status

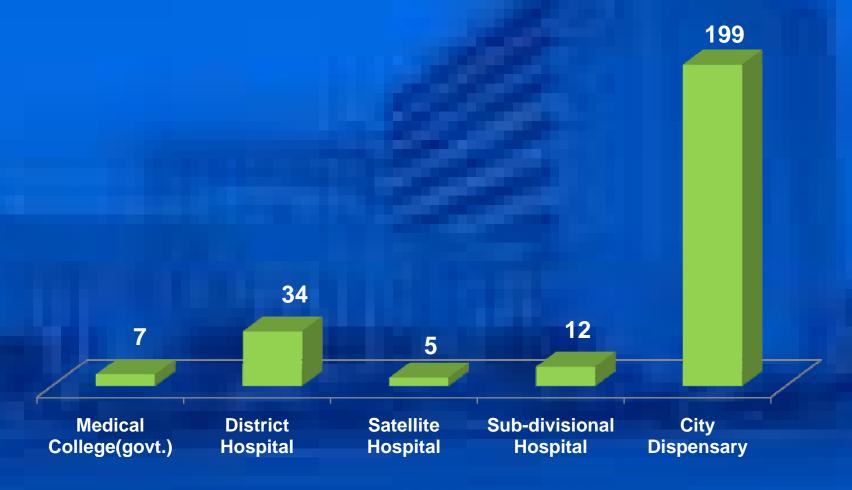




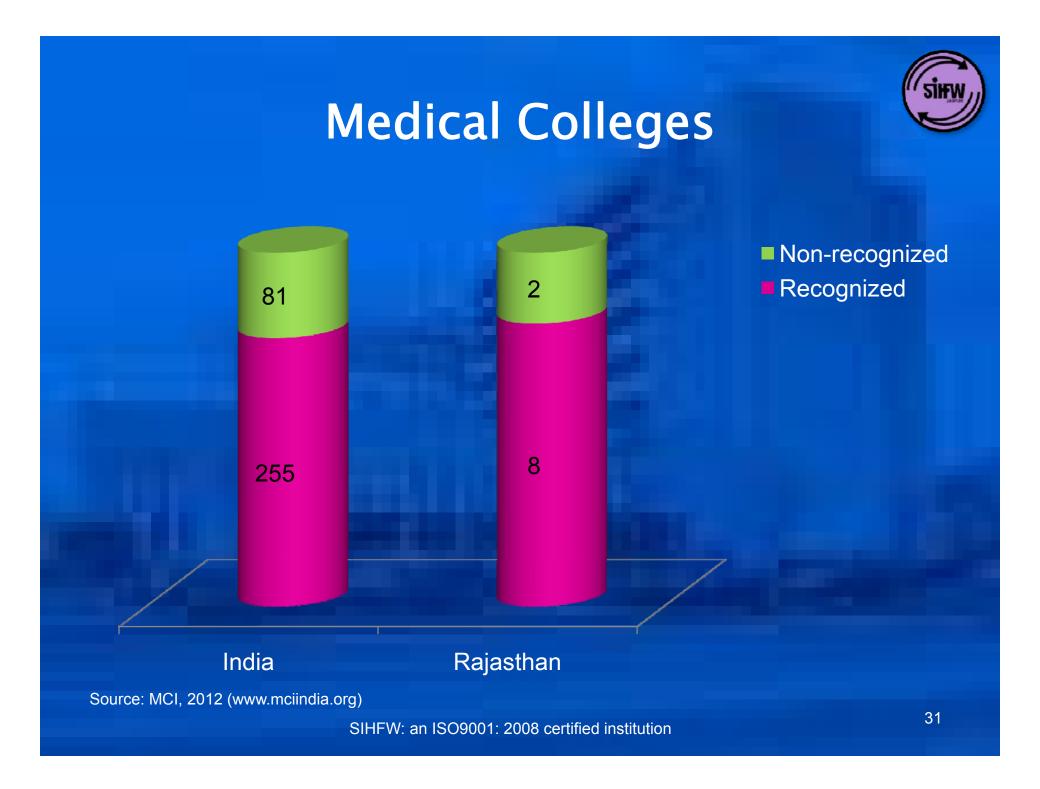
SIHFW: an ISO9001: 2008 certified institution

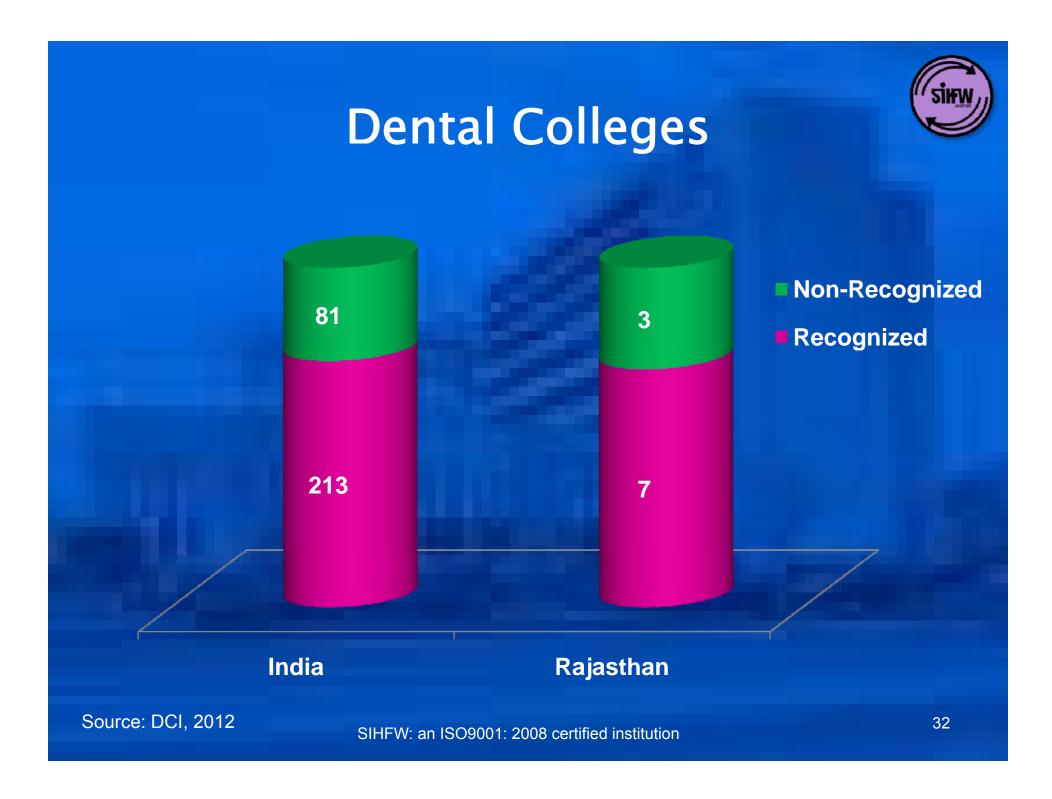
Health Care Infrastructure: Rajasthan

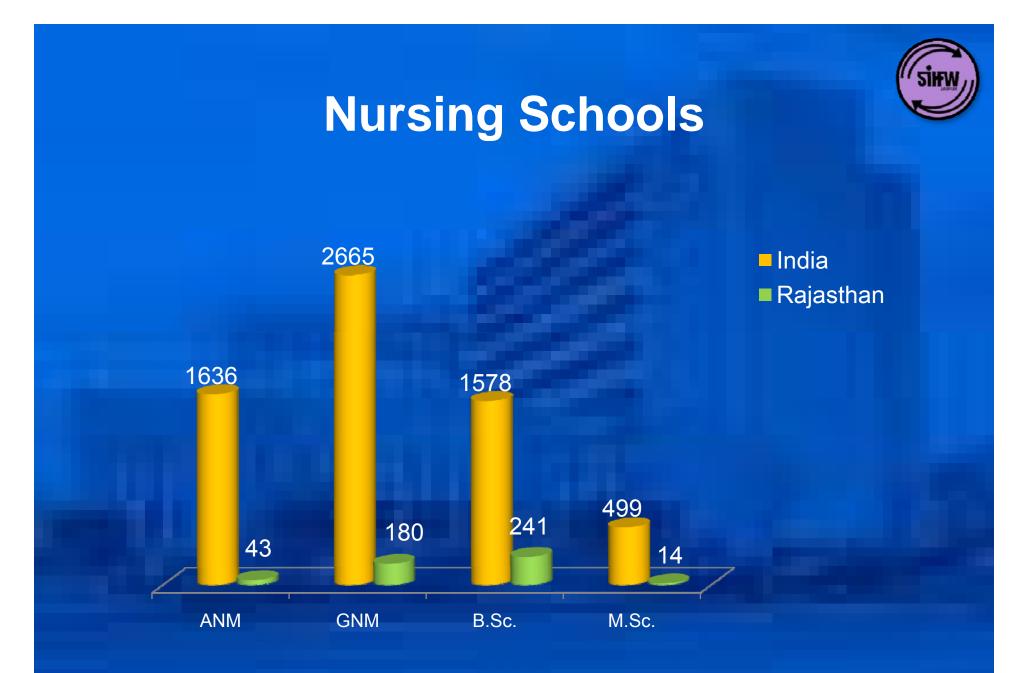




Source: www.nrhmrajasthan.nic.in



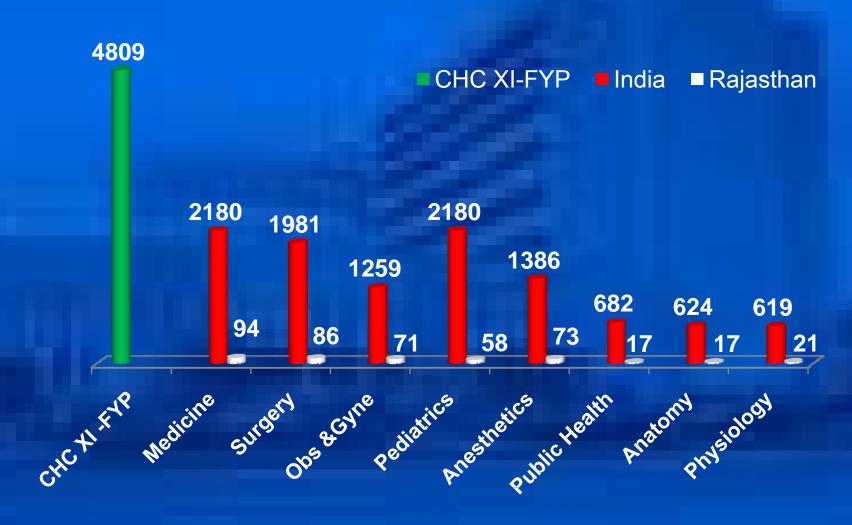




Source: www.indiannursingcouncil.org (Nov 2012)

SilfW

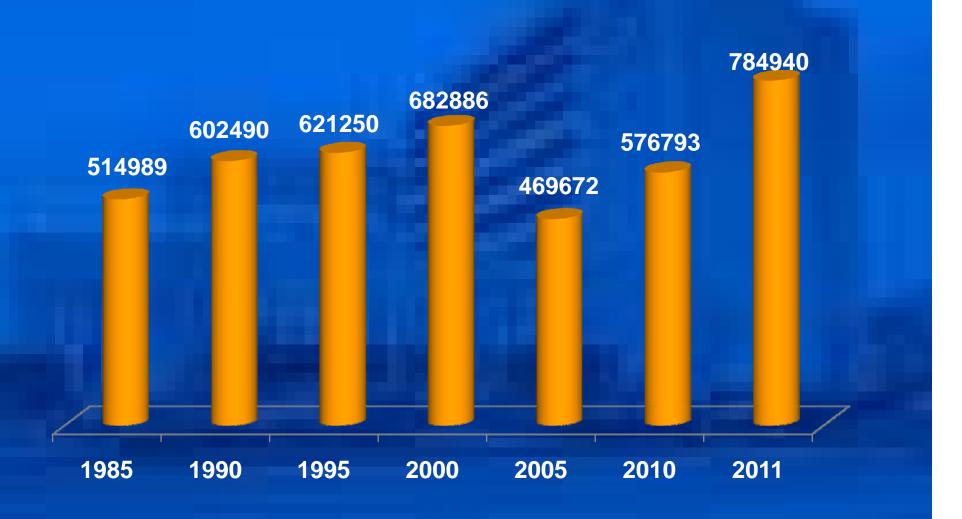
CHC- XI FYP vs. PG seats



Source: RHS 2011/ MCI, 2012 (www.mciindia.org)



Total beds * (India)



Source: * govt. sector CBHI -HII/NHP



Medical Education: Rajasthan

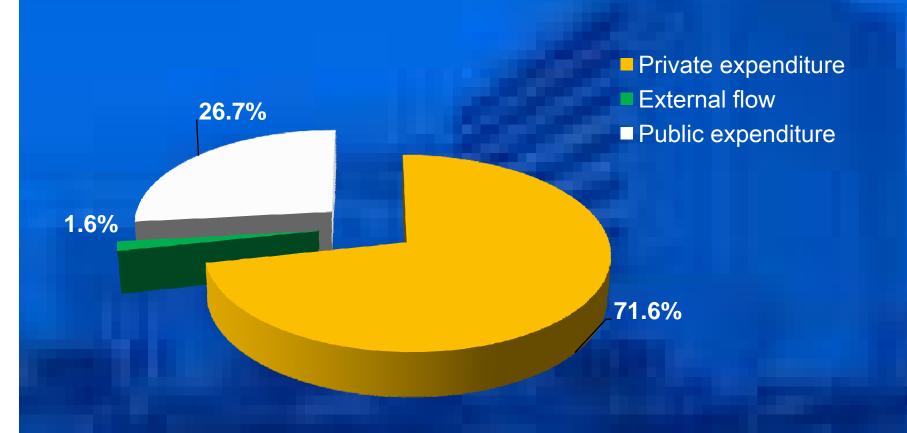
Population : Medical College	6675000
Undergraduate Intake	1300
Post Graduate seats	778
UG:PG Seats	1.67
No. of Specialties	35

Source: CBHI, MCI 2012





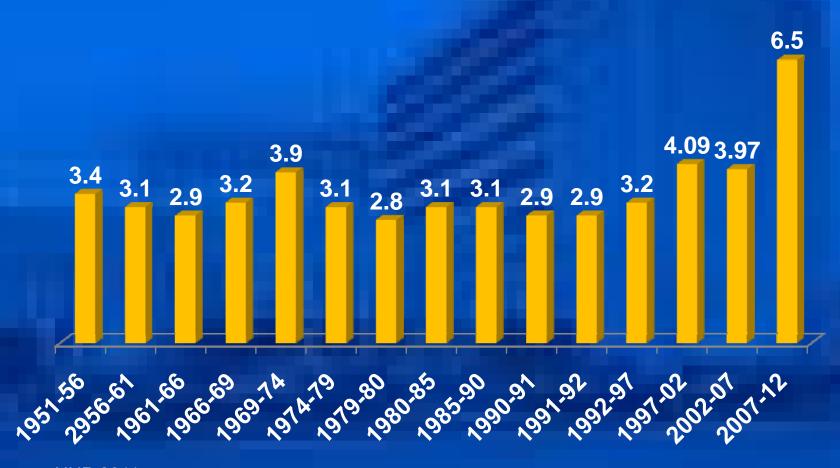
Share in health care spending



Source: NHP 2011

Health Expenditure as % of total Plan Outlay





Source: NHP 2011



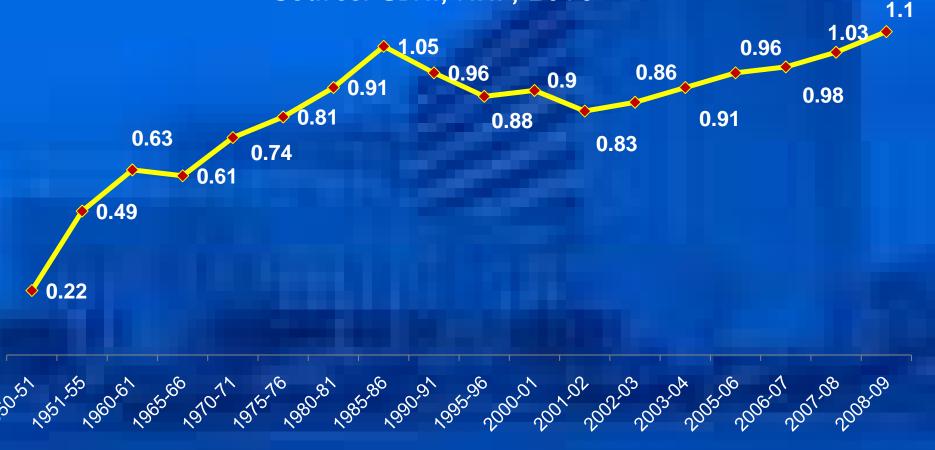
Who really pays?

- 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



Planning Commission has decided to increase its spending on health to 2.5% of the GDP in the 12th Five Year Plan.

Per Capita Public Exp. on Health





Source: NHP 2011

Status of Expenditure in FYPs



Source: CBHI, NHP, 2011

	Total Plan		Family
FYPs	Investment	Health	Welfare
	1960	65.2	0.1
I	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)



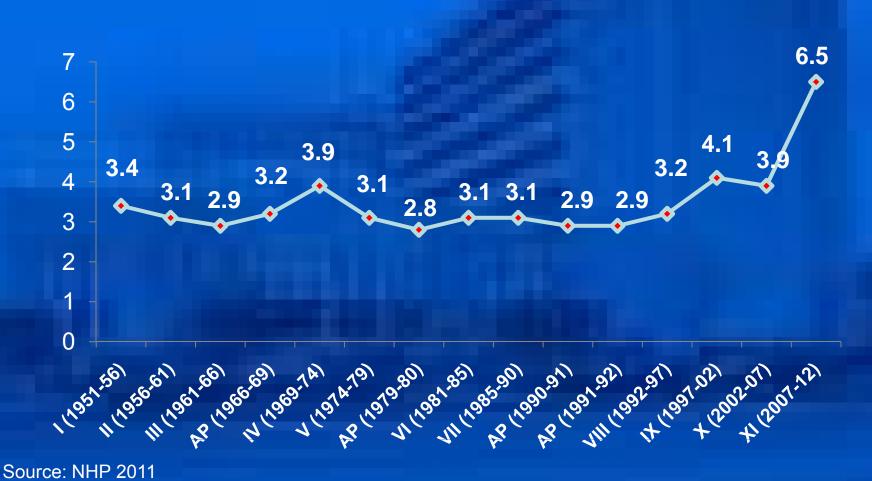


Source: NHP 2011

44

Percentage of total budget allocated () to health





Budget outlay for Health - Rajasthan

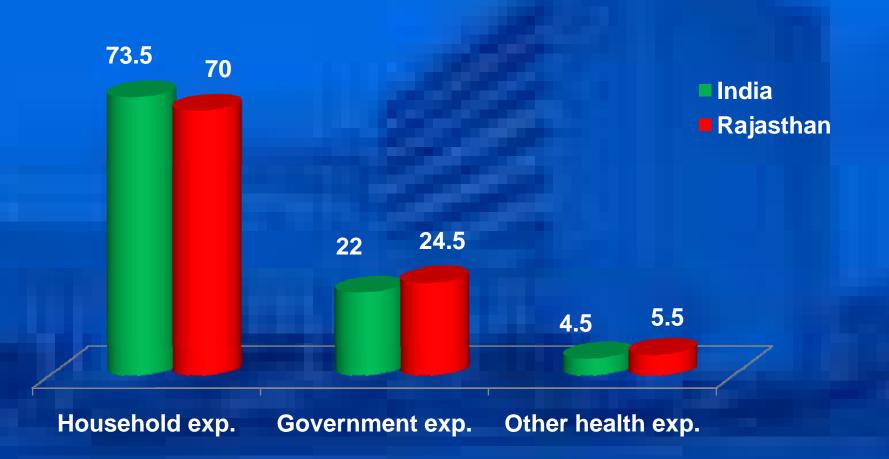




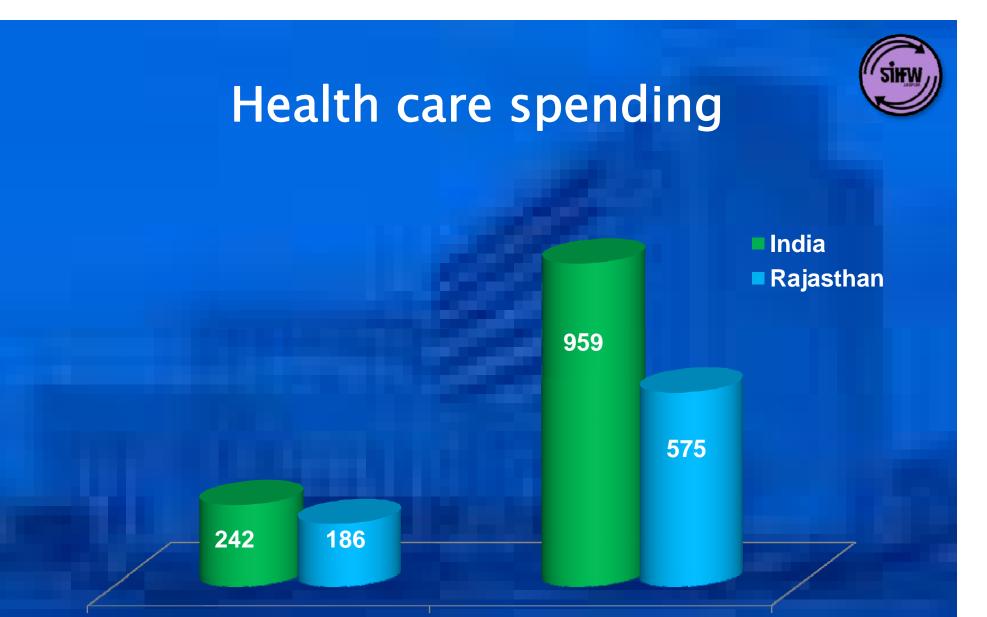
Source: www.planning.rajasthan.gov.in







Source: NCMH 2005



Per capita public exp.

Per capita private exp.

Source: NHP 2011/ data in Rs.

48





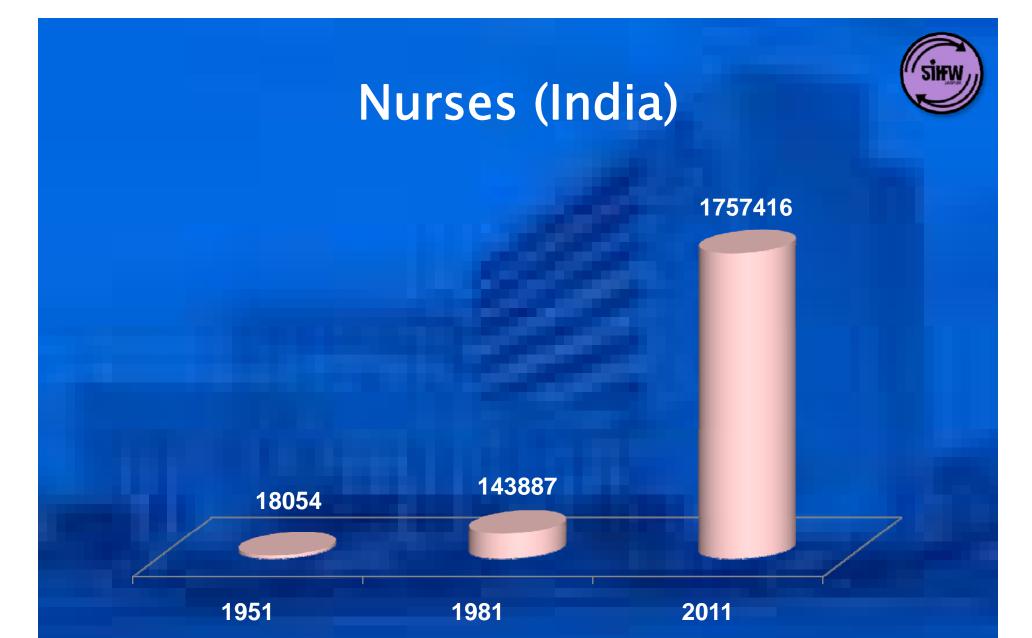
People are resource But To maintain this resource We need Resources



Doctors (Allopathic in India)



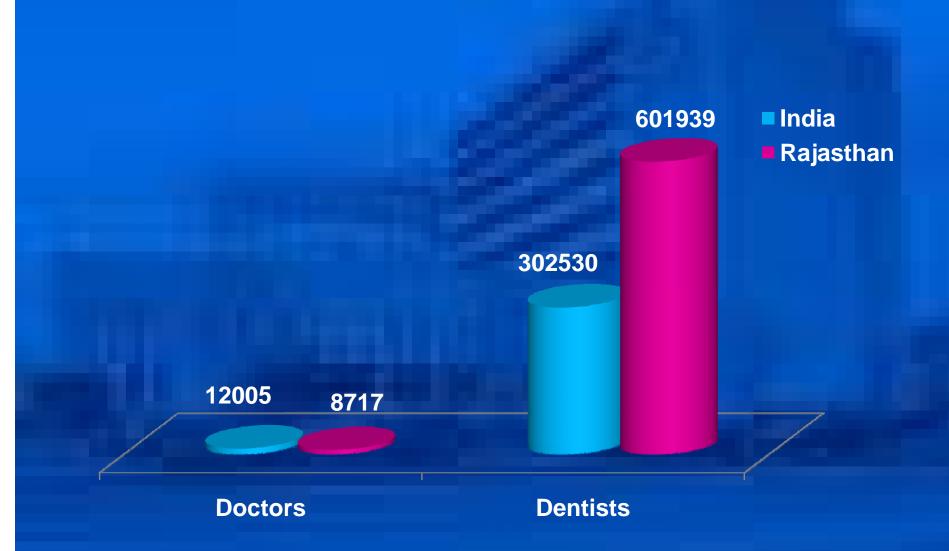
Source: CBHI-HII/NHP



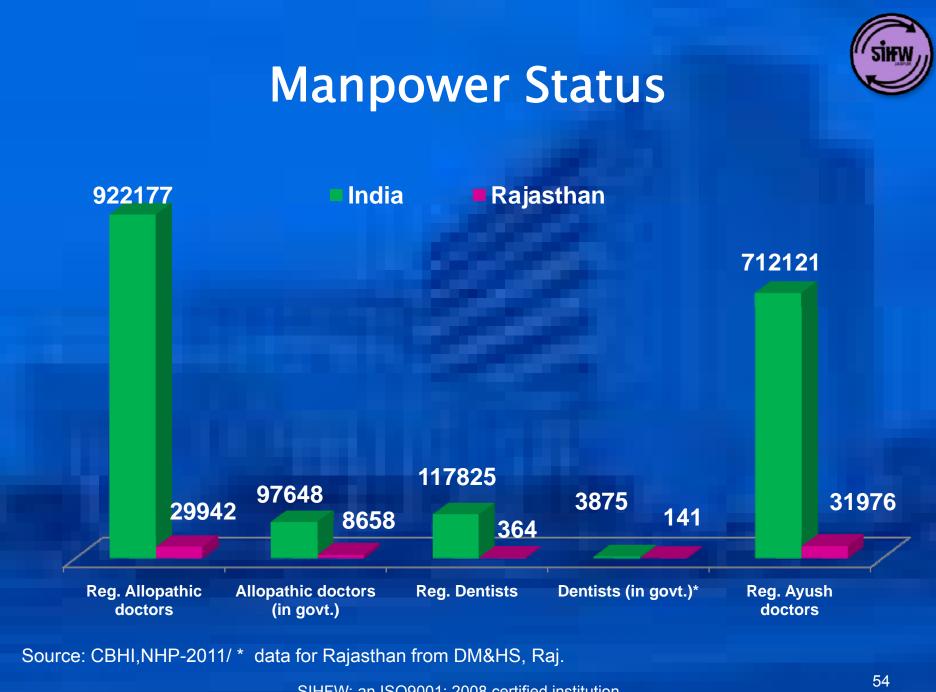
Source: Planning Commission of India/ Indian Nursing Council



Average Population Served

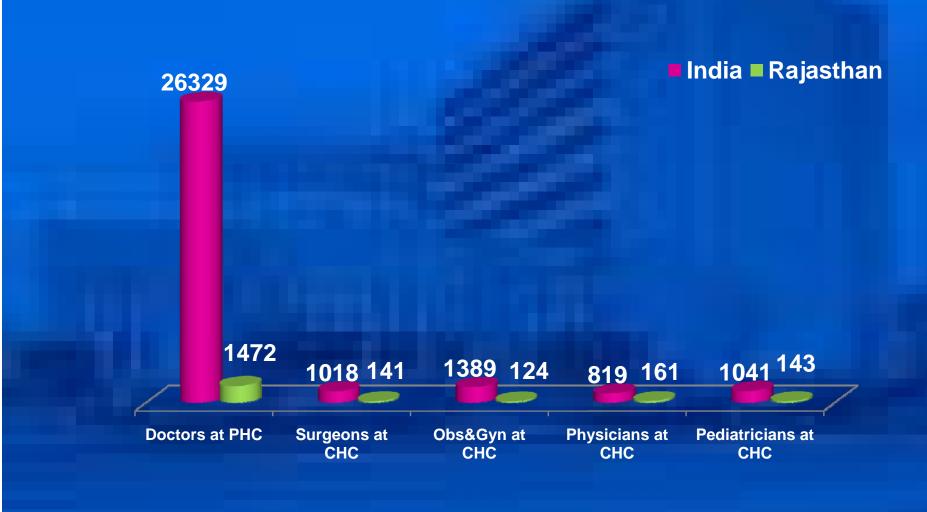


Source: NHP 2011





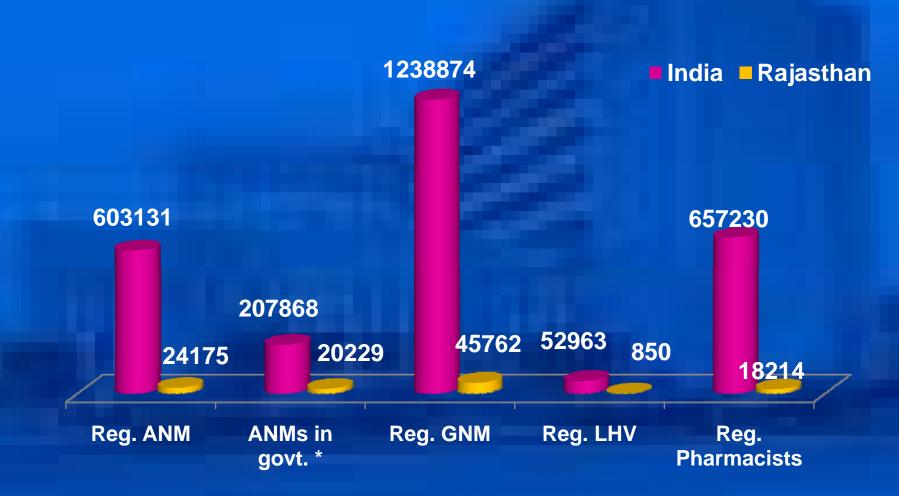
Manpower: in Position



Source: RHS 2011



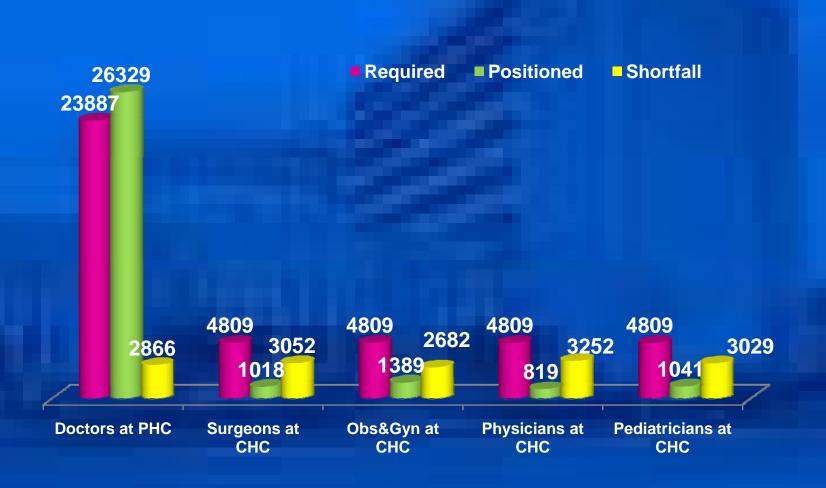
Manpower: in Position



Source: NHP 2011/* data for Rajasthan from DM&HS Raj.



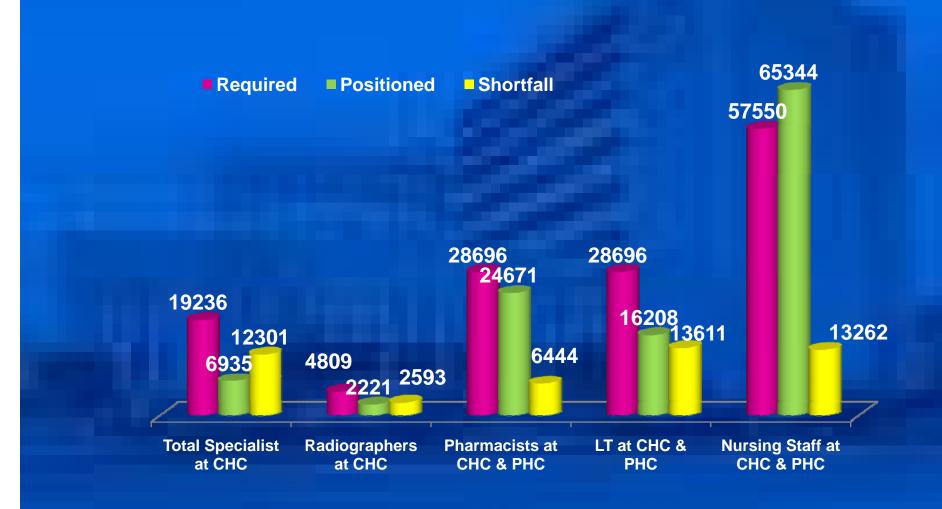
Manpower Status: India



Source: RHS 2011 - data for all India



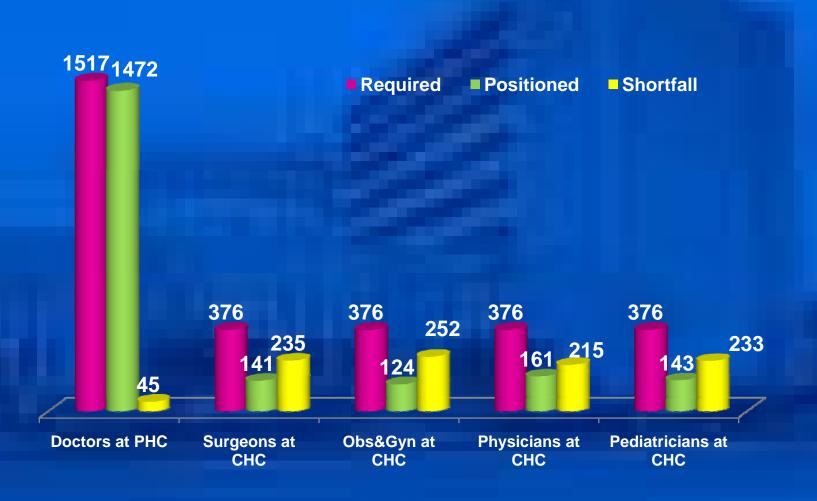
Manpower Status: India



Source: RHS 2011 - data for all India



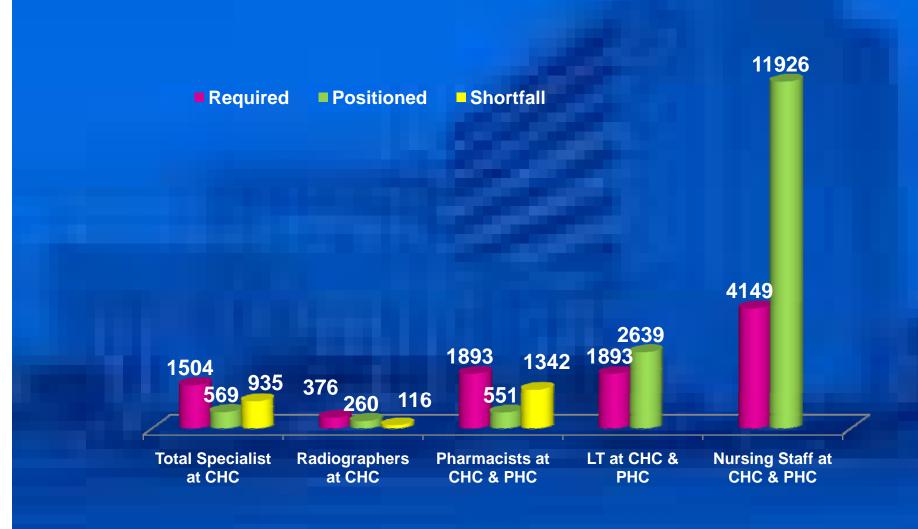
Manpower Status: Rajasthan



Source: RHS 2011



Manpower Status: Rajasthan



Source: RHS 2011

60

Health Workforce and Infrastructure - India



	Density per 10,000 population
Physicians	6.0
Nursing and midwifery staff	13.0
Dentists	0.7
Pharmacists	5.2
Hospital beds	9

Source: World Health Report 2011



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
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Increase utilization of public health facilities from current Level of <20 to >75%	2010
Establish an integrated system of surveillance, National Health	2005

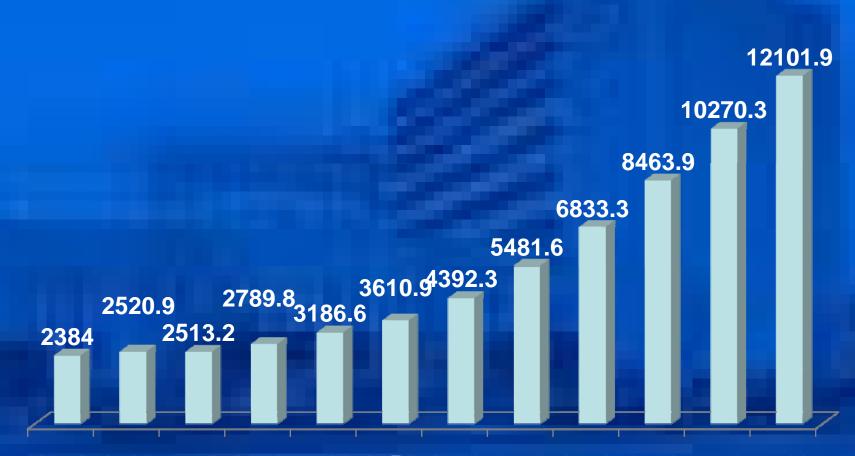
63

Population and Growth: India





Population Growth-India



1901 1911 1921 1931 1941 1951 1961 1971 1981 1991 2001 2011

Source: Census of India/data in lakhs

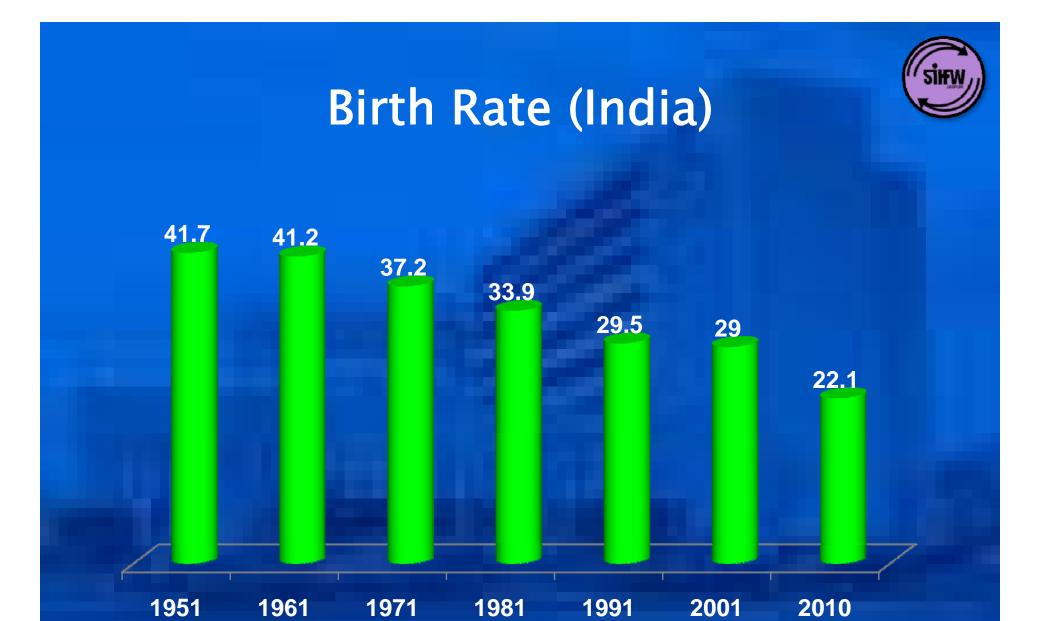
65



Population growth - Rajasthan



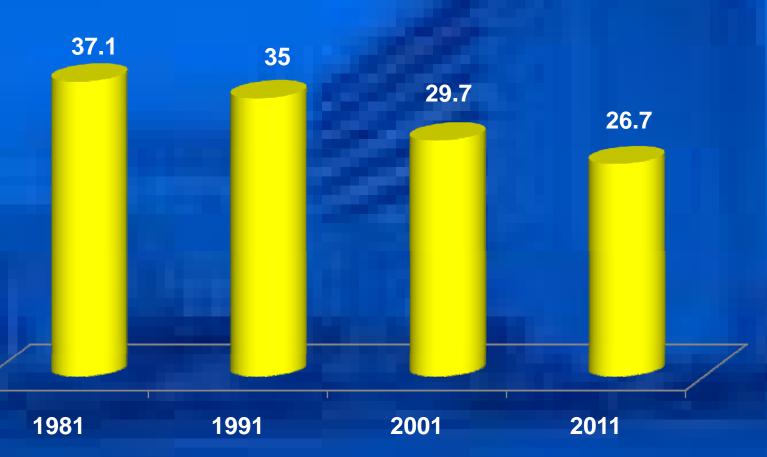
Source: Census; data in millions



Source: SRS 2011



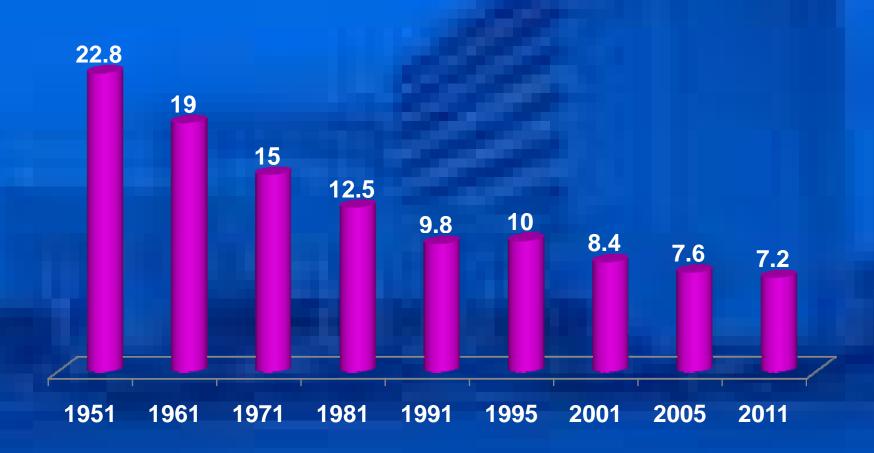
Birth Rate (Rajasthan)



Source: Planning Commission/ Rajasthan Development Report; SRS 2011



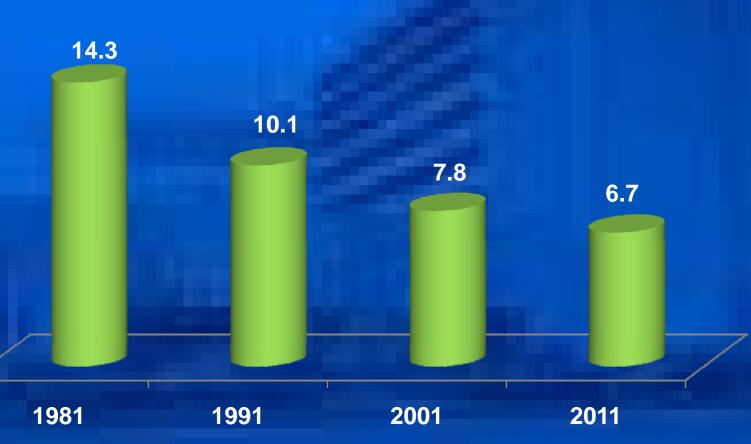
Death Rate (India)



Source: SRS 2011



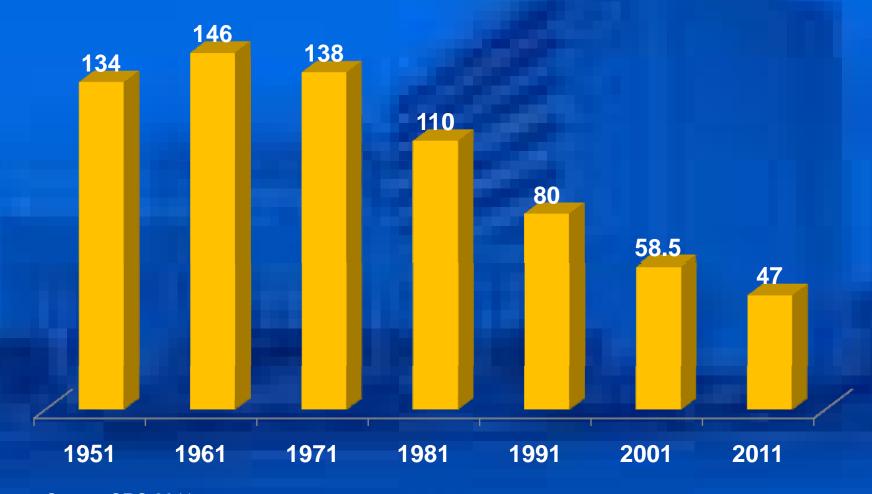
Death Rate (Rajasthan)



Source: Planning Commission/ Rajasthan Development Report; SRS 2011



Infant Mortality Rate (India)



Source:SRS,2011

71

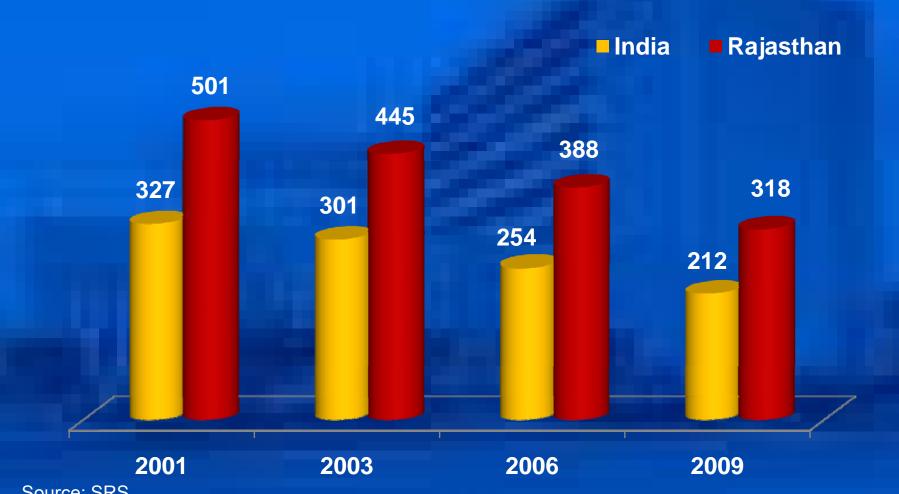




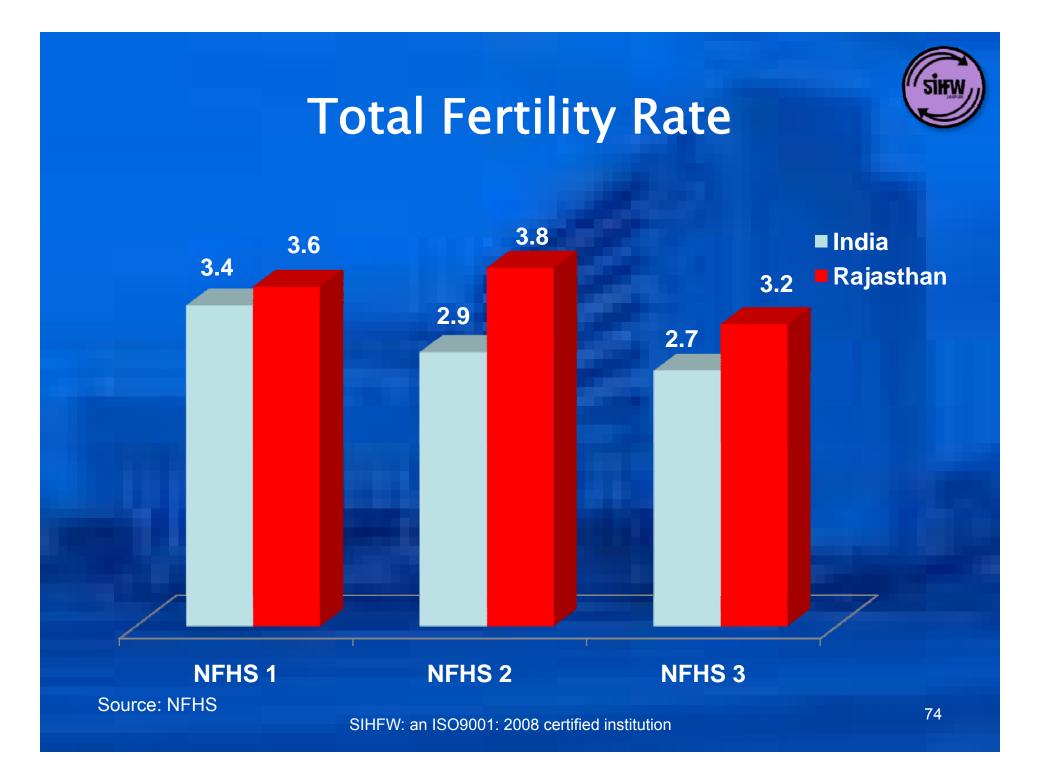




Maternal Mortality Ratio



Source: SRS





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

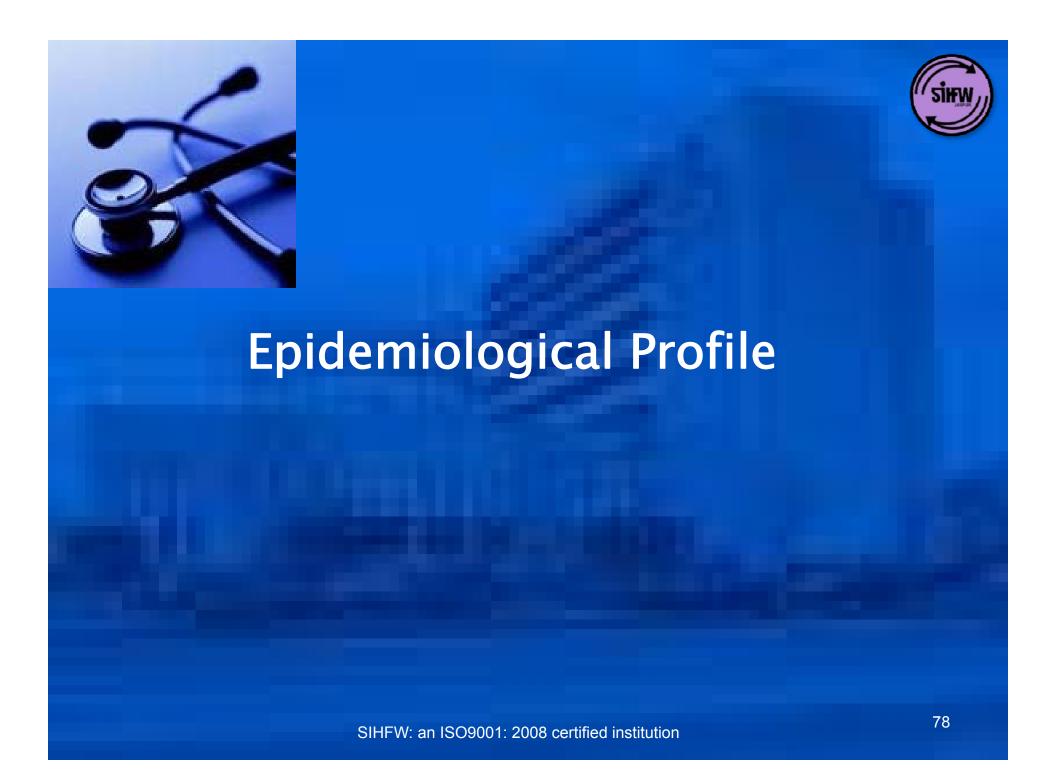
- National AIDS Control Program
- National Cancer Control Program
- National Diarrheal Disease Control Program
- National Filaria Control Program*
- National Family Welfare Program
- National Iodine Deficiency Disorders Control Program
- National Leprosy Eradication Program



- 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)

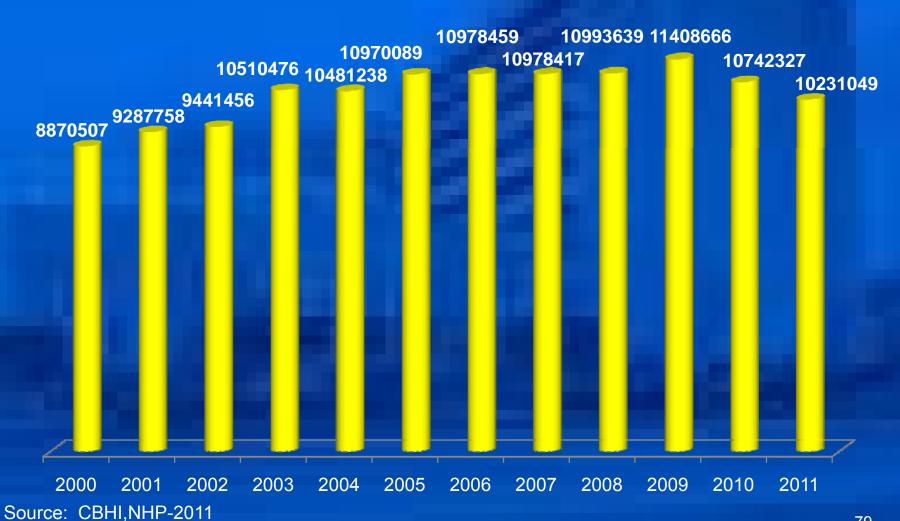
(* Programs are merged into

National Vector Borne Disease Control Program since 2003-04)



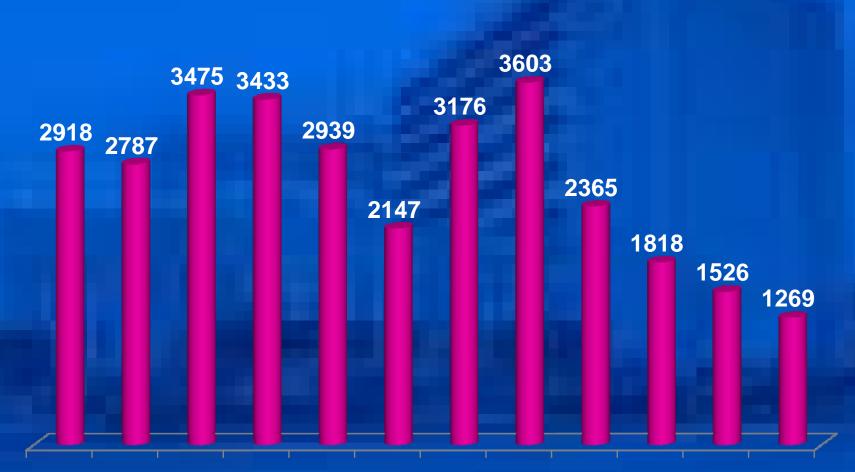


Diarrhea Cases (India)





Diarrhea Deaths (India)

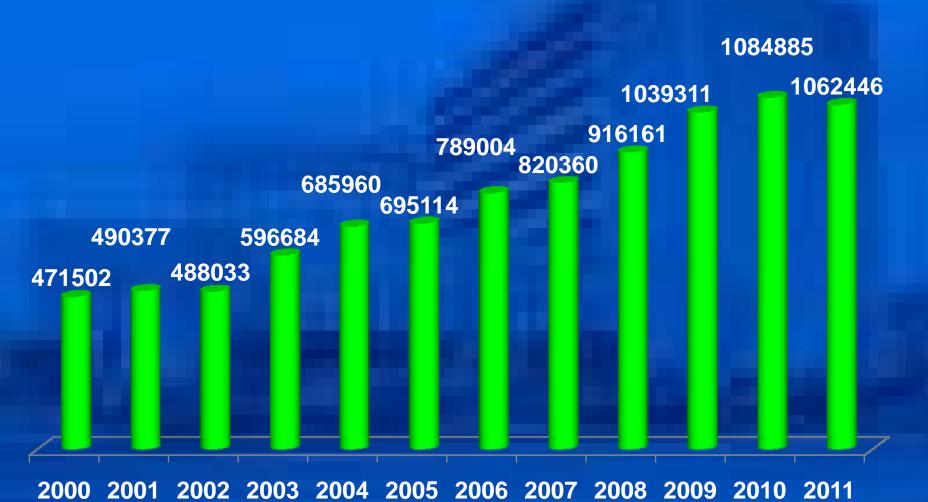


2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

Source: CBHI,NHP-2011



Enteric Fever Cases (India)

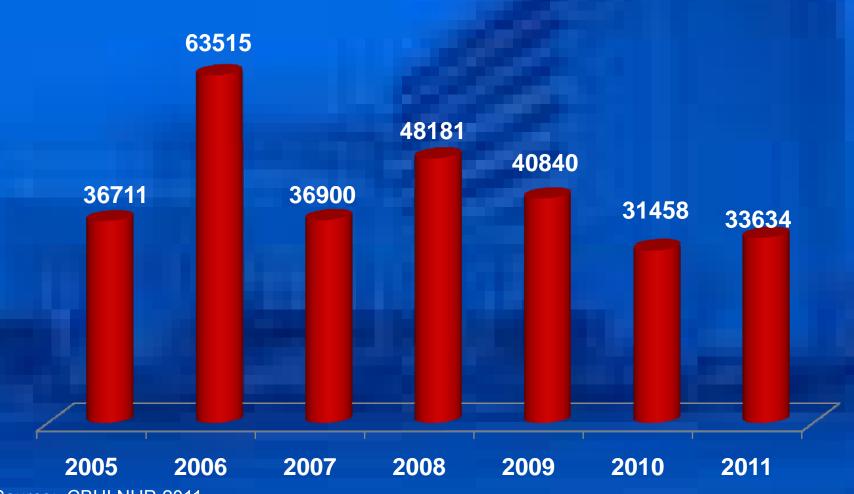


2000 2001 2002 2003 2004 2003 2000 2007 2000 2009 2010

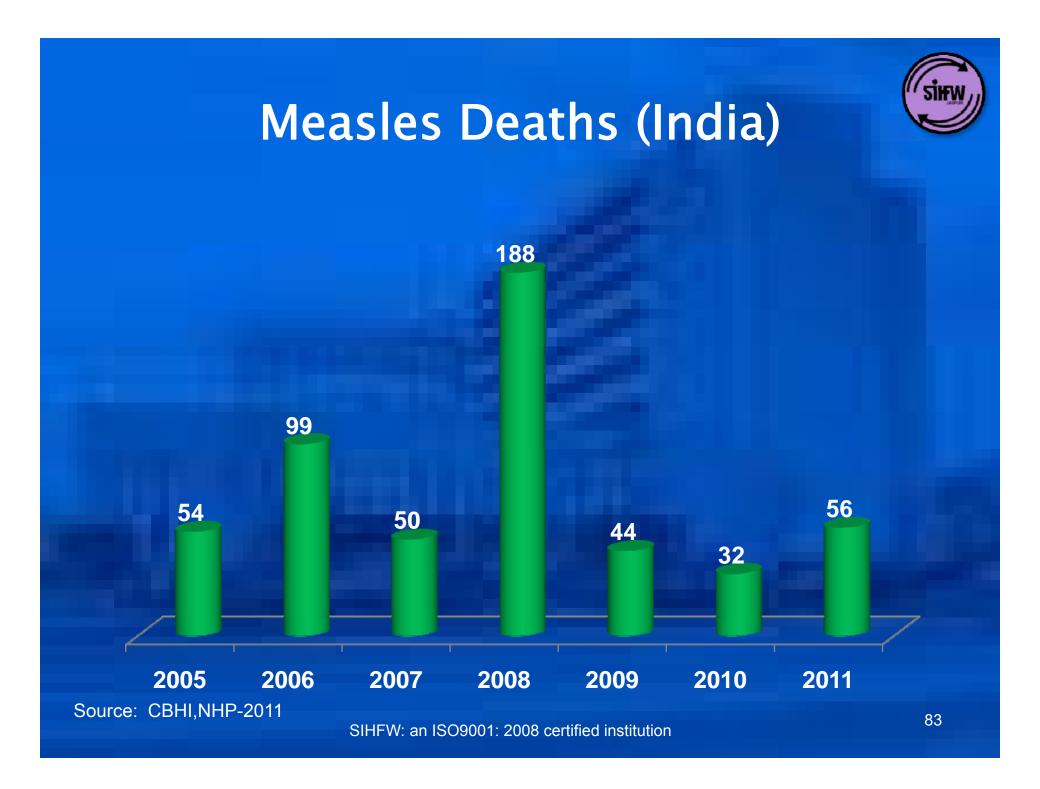
Source: CBHI,NHP-2011



Measles Cases (India)



Source: CBHI,NHP-2011

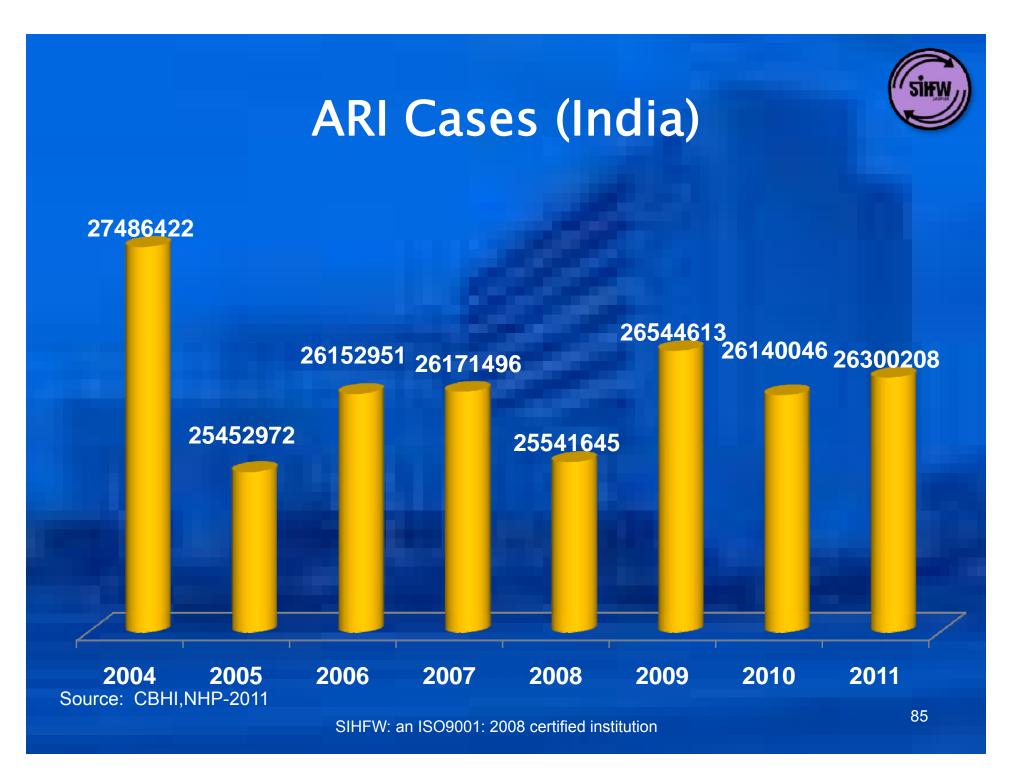


Polio - Cases and Deaths (India)



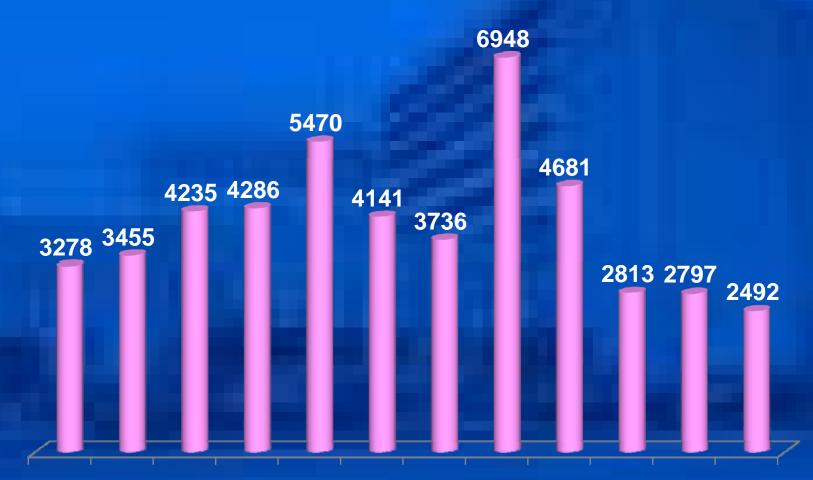


Source: CBHI-NHP-different years/ for year 2011 data source National Polio Surveillance Project (WHO)





ARI Deaths (India)

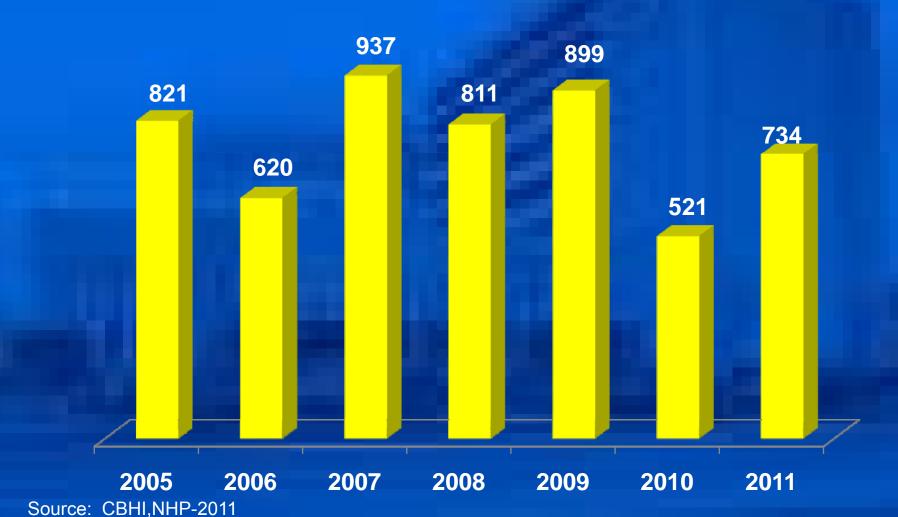


2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

Source: CBHI,NHP-2011

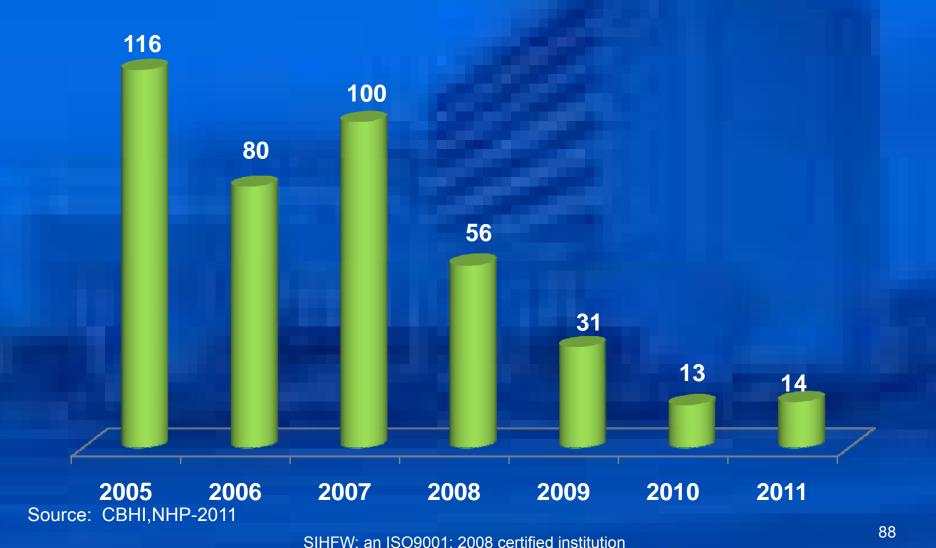


Neonatal Tetanus Cases (India)



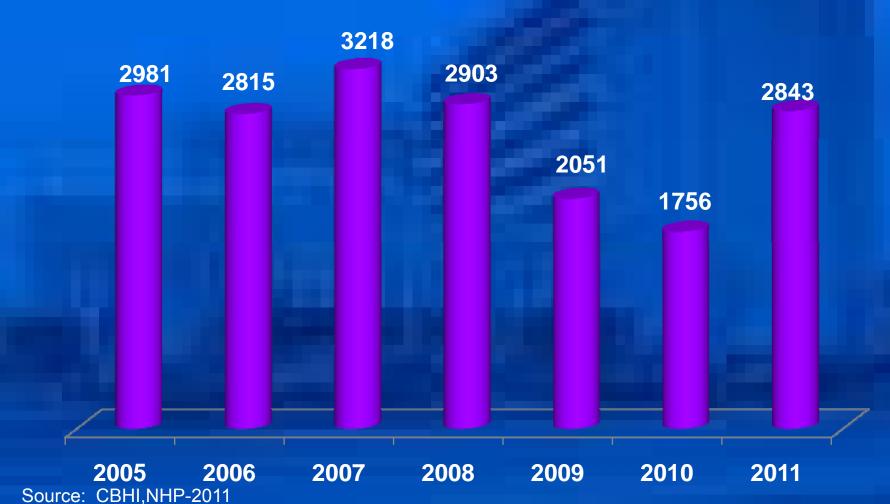
Neonatal Tetanus Deaths (India)





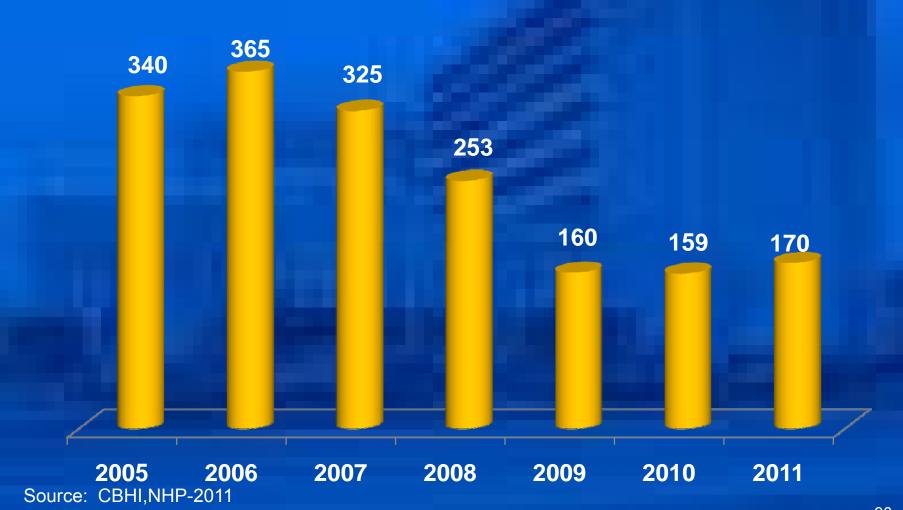
Cases of Tetanus other than Neonatal (India)





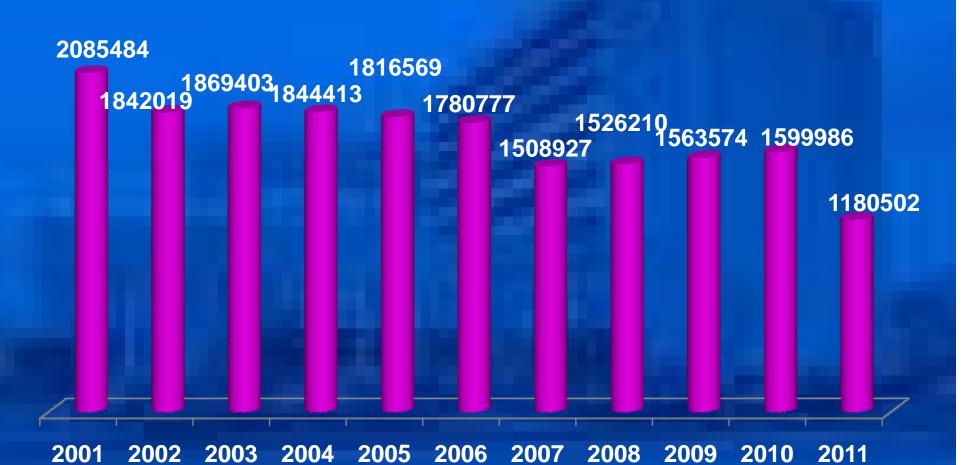
Deaths due to Tetanus other than Neonatal (India)







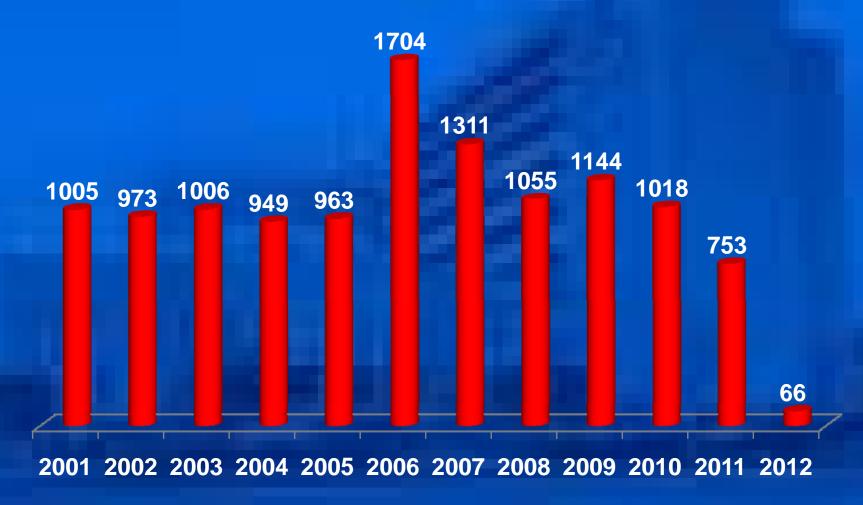
Malaria Cases (India)



Source: CBHI,NHP-2010 and MOHFW



Malaria Deaths (India)



Source: CBHI,NHP-2011 and MOHFW (upto

June 2012)



Dengue Cases (India)



1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

Source: CBHI,NHP-2011 and MOHFW (MIS



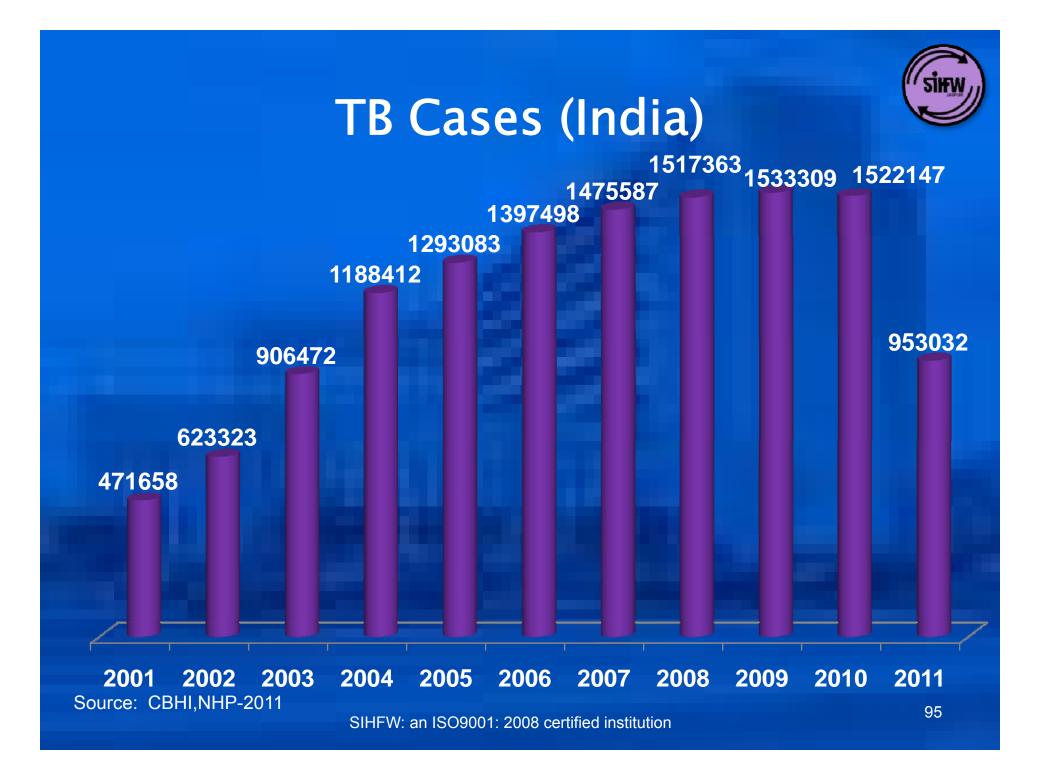
Dengue Deaths (India)



1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

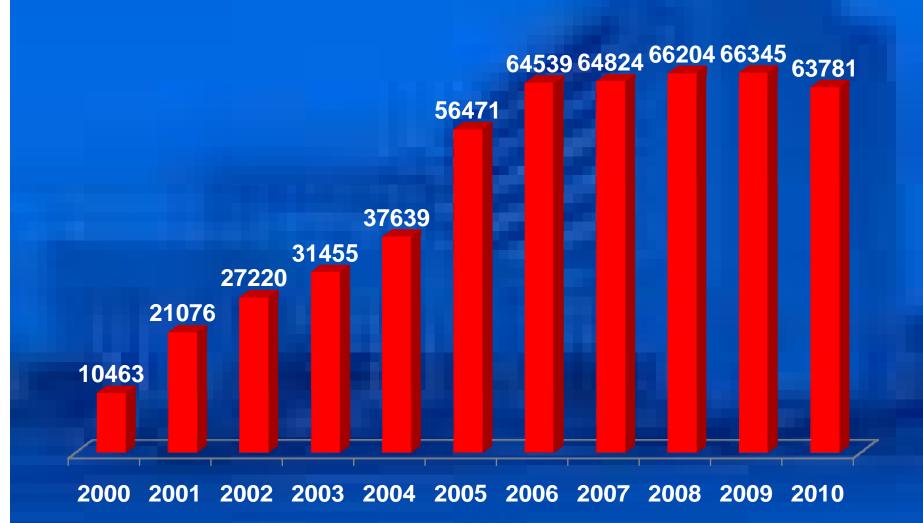
Source: CBHI,NHP-2011 and MOHFW -

upto June 2012





TB Deaths (India)



Source: CBHI,NHP-2011

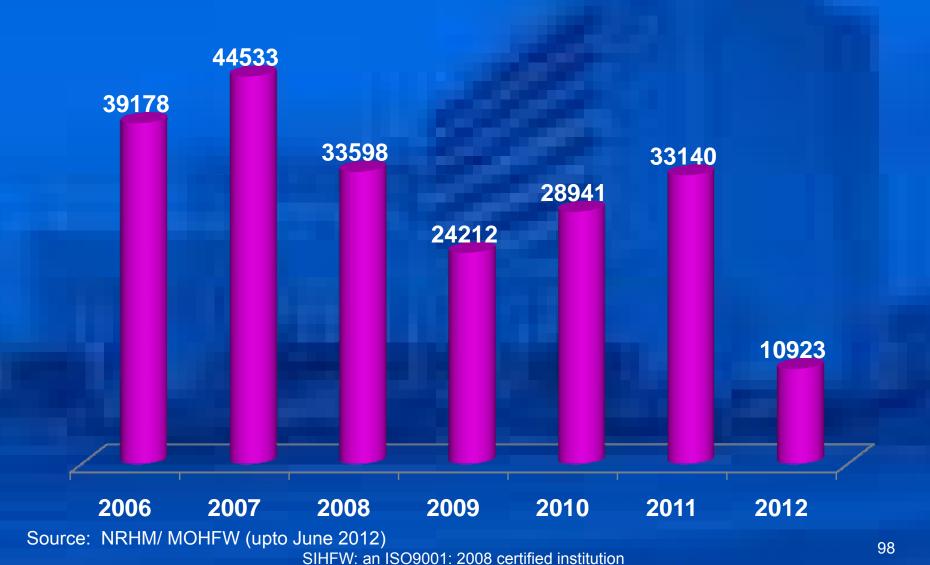
Suspected Chikunganya Cases (India)





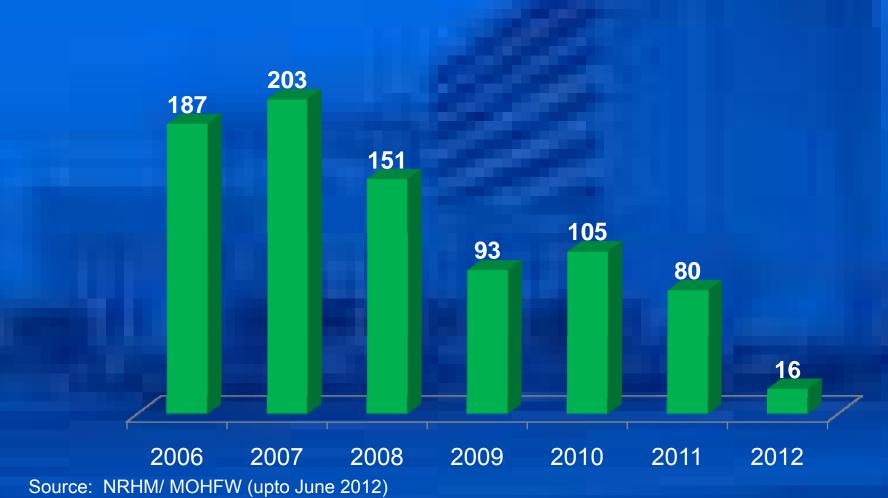


Kala Azar Cases (India)





Kala Azar Deaths (India)



SIHFW: an ISO9001: 2008 certified institution



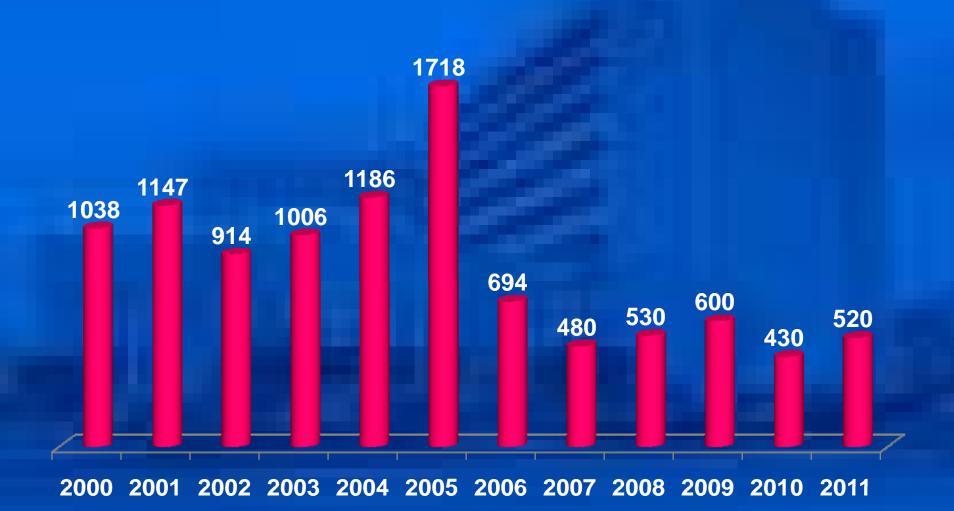
Viral Hepatitis Cases (India)



Source: CBHI,NHP-2011



Viral Hepatitis Deaths (India)



Source: CBHI,NHP-2011



Thank You

For more details log on to www.sihfwrajasthan.com or

contact : Director-SIHFW on

sihfwraj@yahoo.co.in