

EMERGING TRENDS IN HEALTHCARE

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"Of all the forms of inequality, injustice in health care is the most shocking and inhumane."

— Dr. Martin Luther King Jr.

HealthCare In India... Three Indias... Extreme Needs







	Population	Avg Healthcare spend per household
Low Income	825 Mn	<4k
Middle Income	325 Mn	15k
High Income	19 Mn	75k

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Healthcare Delivery... HIGHS & LOWS

Success rate of cardiac bypass in India is 98.7% vs. 97.5% in the U.S.

Medical Tourism is a \$2Bn market in India

Ayurveda is the earliest school of medicine known to humans

5th Gene behind brain disorder found by Indian geneticist & psychiatrist

Telesurgery & Telemedicine has gained prominence for outreach to inaccessible population

Jan 2010, CSIR have successfully mapped the first complete and entirely Indian genome.

Infant mortality rate: 70 deaths per 1,000 births Vs. 6 deaths in developed countries.

Maternal Mortality Rate: 25 per 10,000 births vs 7 in developed countries

2 deaths occur every 3 minutes from Tuberculosis

34 deliveries every minute... Births attended by skilled health personnel 47% vs 97% in developed countries

Life expectancy in India is 66 years compared to 78 years in developed countries

Islands of Excellence in an Ocean of Inadequacy

Current Indian Health Care Scenario

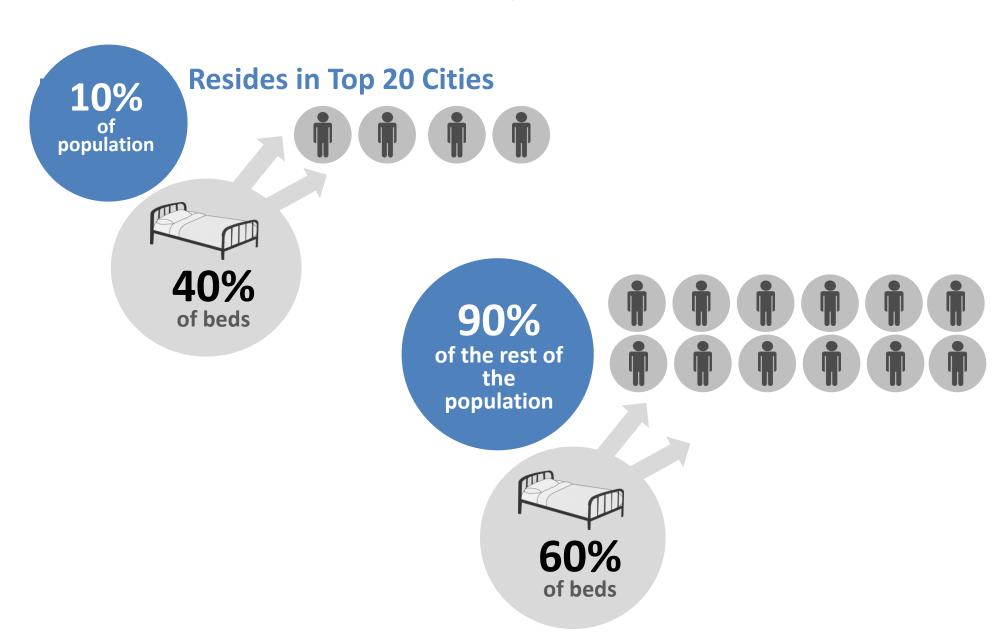
Infrastructure & Manpower

- Total Beds 1.37 million
 - But Only 50% beds functional & relevant
- Hospital bed to Population ratio of 1.1 per 1,000
 - World Average of 2.7
- Doctor to population ratio is 1:1,722
 - World Average Ratio is 1: 715
- Nurses to population ratio is 1.3 per 1,000
 - World Average of 9.7
- OT to population ratio of 1 per 100,000
- 77% of the population pays out-of-pocket for healthcare.
 Only 23% covered by insurance 77% (private, social etc)

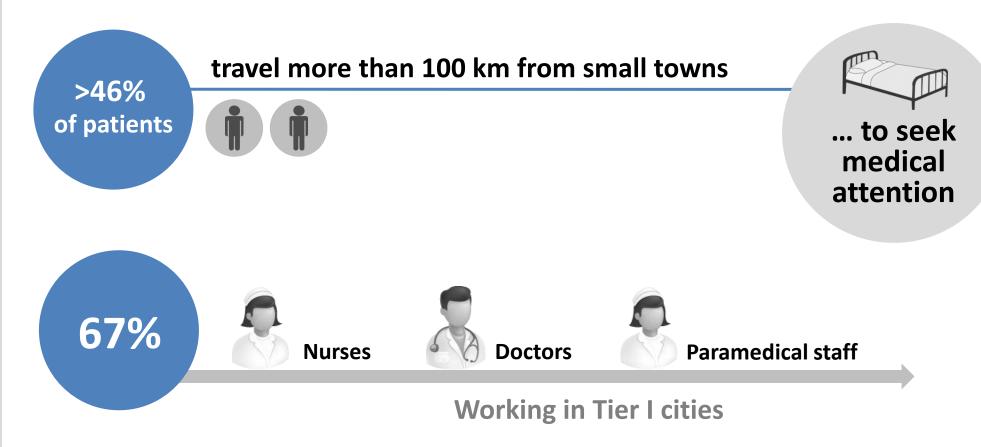




Health Care Accessibility



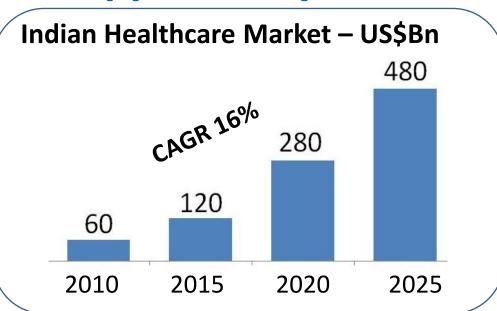
Health Care Accessibility



Serious Lacuna in Tier II, III cities & rural India

Health Care in India... The Opportunity

Healthcare contribution to GDP to grow from current ~4% to
 5.5% of GDP



- The avg. household healthcare spend will increase from 7% to 10% in next decade
 - 65 cities with 1mn+ population, 40 towns with 0.5mn+ population



Health Care delivery formats across the World

Canada:

70% of healthcare spend by Govt. Federally sponsored public funded medicare system with services provided by private sector

90% Healthcare spend by govt. NHS completely funded by the government.

Private practices to co-exist



45% spend by the govt.

38% through the employers and 17% from private payment.

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France:



\$0% of healthcare spend by government.)

Both forms of practice exist (Private & Public).

Govt. refunds 70% of most health are

costs & 100% in costly or long term

ailments

Australia:



60% under government Program -Medicare (Co-exists with Private) All legal residents are entitled to government paid public hospital

including treatment by private doctors

Government's Struggle in Healthcare Delivery in India

- Poorly equipped & managed hospitals and delivery centers
- Staffed inadequately
- Sub-standard consumables, antibiotics & paracetamol being

used

Healthcare roadmap for India... learning's from developed nations



Government

- Centers of Excellence (AIIMS, Kidwai, NIMHANS)
- Research Institutes
- Regulatory / Monitoring Bodies
- Medical Colleges
- Provide Medical Insurance
- Provide preventive healthcare and provide basic amenities



PPP

 Private Partnership in current government hospitals



Private

- Private Partnership
 All Healthcare delivery in the in current
 hands of private players
 - Tiered approach to healthcare delivery... ensure rural inclusivity
 - Caters to all specialties including super specialties
 - Simplify healthcare insurance process... One Procedure One Rate
 - Innovative delivery models

Innovative business models

New horizons for healthcare delivery would be that provide:

- Lower cost
- Addressing untapped markets
- Improved CapEx leverage

- Greater operating efficiency
- Enhanced patience experience

Healthcare Space is already witnessing new delivery formats

- Ambulatory Surgery Centers
- Single Specialist Hospitals / Chain
- Hub & Spoke
- Diagnostic clinics
- Primary care networks
- End-of-life Care Centres



Taking Healthcare to the People

The Ideal Model How Lacunae will be filled...



- Villages Outreach Clinics
 - A consulting room
 - Minimal diagnostics

For a few Villages – Primary Health Care Centre (PHC) – one for a few villages

- Consulting
- Basic diagnostics
- Tests
- Small procedures



Taking Healthcare to the People

The Ideal Model How Lacunae will be filled...

- Towns Ambulatory Surgery
 Centers One in a town
- Ambulatory Surgery Centers (ASC) or day / short stay surgery centers have following facilities:
 - a. Surgical procedures that can result in discharge within 2 72 hours.
 - b. Operating Theatres
 - c. OPD Suites for Consultation
 - d. Pre Op & Post Op beds
 - e. Lab, Radiology & Pharmacy facilities
 - f. Preventive Health check
 - g. Specialized Clinics



- Over 70% of all surgeries & nearly 1,400 procedures can be performed in a ASC
- ASC's can handle all non-critical surgeries

Why Ambulatory Surgery Centers?

- Minimally invasive surgical techniques
- Cost savings:
 - Treatment 20-25%
 - Stay, travel 25-30%
- No scheduling delays as each center has 4 – 5 operating theatres







- High quality cost effective alternative to traditional tertiary care
- Hospital Acquired Infection can be significantly reduced

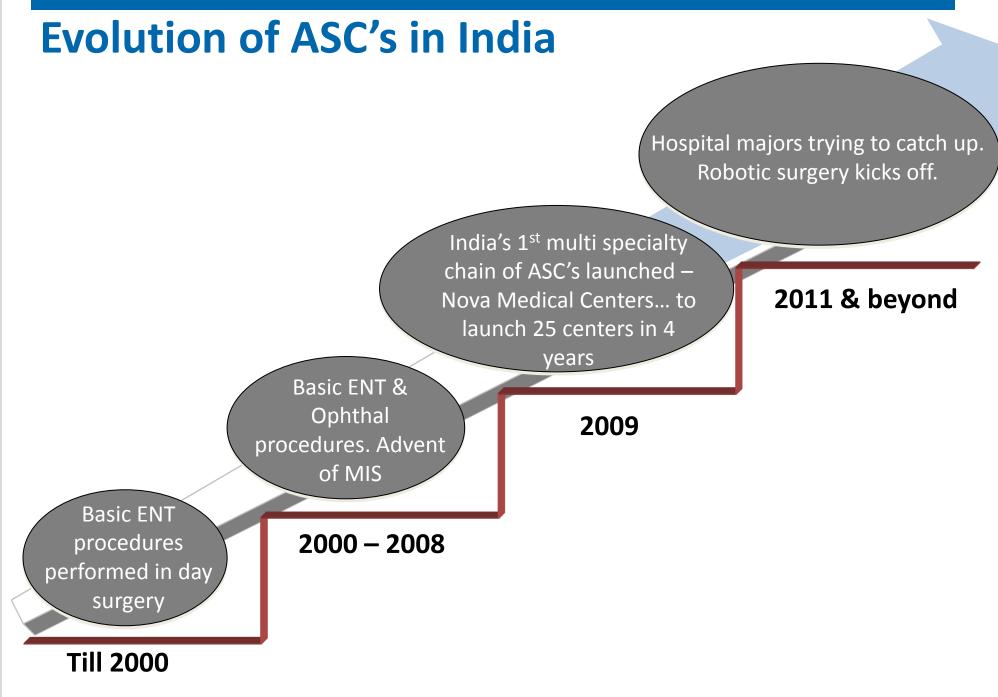
Hospital infections affect 2 million patients, leading to 58,000 deaths and costing \$4.5 billion annually

Increases bed to patient ratio & OT to patient ratio



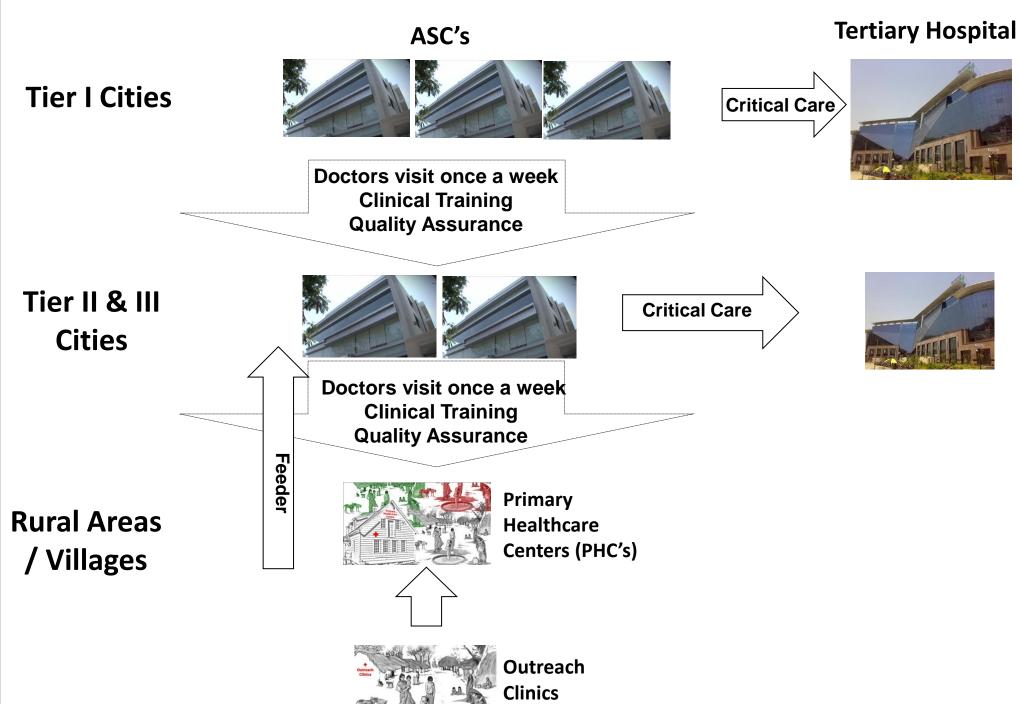






ASC's still very nascent in India... huge potential to make a substantial difference in healthcare delivery

Ripple down Effect of the ASC Delivery Model



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Ambulatory Surgery Center (ASC)... The Potential and Vital Cog in the Delivery Model

- The Ambulatory Surgery Centers are a 30 yr old concept in the West
- US has nearly 6,000 such centers doing 22mn+ surgeries annually
- India has the potential to accommodate 15,000 such centers
- ASC's are the vital cog for
 - Effective, World Class, High Quality and Affordable Healthcare



