







FORGING A SAFER FUTURE

India's blueprint for patient safety excellence





Jaxay Shah
Chairperson
Quality Council of India (QCI)

In the healthcare system, quality healthcare, and patient safety stand as a cornerstone of progress and human well-being. In today's world, a quality healthcare ecosystem is of paramount importance. It encompasses not only the credibility and access of hospitals but also the safety of patients. Quality healthcare goes beyond the confines of medical interventions; it encompasses the entire patient experience; from the moment they seek care to their journey toward recovery and beyond. It is a commitment to excellence, driven by evidence-based practices, continuous improvement, and a deep sense of compassion and empathy for those entrusted to our care.

Patient safety is not a mere aspiration but an imperative, demanding a culture of transparency, accountability, and constant vigilance in identifying and addressing potential hazards. Health is Wealth, as rightly stated in our rich cultural ethos, resonates with our dedication to safeguarding the sanctity of human life through healthcare.

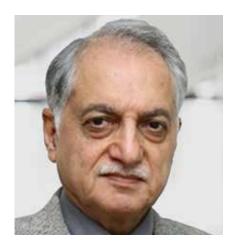
The pursuit of patient safety demands collective action.

NATHEALTH, in collaboration with NABH and QCI, is ensuring that patient safety is preeminent in very healthcare center in India. It is crucial to ensure the well-being and safety of patients across the entire value chain of the healthcare ecosystem through rigorous accreditation processes, quality improvement initiatives, and greater accountability mechanisms.

I am hopeful that through the collaboration between NATHEALTH and NABH, significant strides will be made in ensuring patient safety in healthcare institutions. On the journey toward a patient-centric healthcare system, it is essential to leverage our collective expertise and drive transformative change. Mahatma Gandhi once said, "It is health that is real wealth and not pieces of gold and silver." Embracing this wisdom, our mission aligns with the grand vision of Viksit Bharat, wherein every individual's health is a priority in our nation's march towards Amrit Kaal.

Together, let us endeavor to create a healthcare environment where the safety and well-being of every patient are upheld as the highest priorities, ensuring a brighter and healthier future for all in achieving Viksit Bharat.

Jai Hind!



Dr. Narottam PuriPrincipal Advisor, Quality Council of India
Advisor (Medical), Fortis Healthcare Ltd.
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Safety is defined as not being in danger or as a state of being safe. Obviously, patient safety is of paramount importance not only to the receiver but also to the provider of care in a hospital setting. This is because hospitals are recognized as riskier than bungee jumping and mountain climbing.

While we recognize the gravity of the situation, the efforts to mitigate the risks suffer from inadequacies. Poor information regarding gravity is not only confined to the public but also to medical and nursing students, and often to practicing doctors. Part of this is due to scant data in our country, inadequate data analysis, and subsequent action based on the data.

Simple mitigating measures like compliance with proper hand hygiene, medication reconciliation and administration, correct patient and correct site identification can avoid a lot of unsavory episodes.

Huge patient inflows causing time constraints, complexities of management, staff training, and poor communication are some of the factors that result in harm.

WHO has identified Patient Safety Goals and it is important that these are implemented in letter and spirit.

I am delighted to be associated with NATHEALTH's commitment to being an active participant in ensuring the safety of our patients and medical community.

Wish NATHEALTH all the success it deserves.



Dr. Ashutosh RaghuvanshiPresident, NATHEALTH
MD & CEO, Fortis Healthcare Ltd.

As President of NATHEALTH and MD & CEO of Fortis
Healthcare Limited, I am proud to introduce "Forging a Safer
Future: India's Blueprint for Patient Safety Excellence," a
collaborative effort with NABH, NATHEALTH, and Praxis
Global Alliance. This white paper represents a crucial step
towards enhancing patient safety in India, offering a detailed
overview of the current landscape, challenges, and actionable
recommendations for improvement.

With contributions from healthcare professionals nationwide, this document underscores the need for a collaborative approach to bolster patient safety, highlighting key areas such as data infrastructure, workforce development, patient empowerment, and technology use. It also stresses the importance of policy reforms and adequate resource allocation.

This initiative aligns with our commitment to high-quality, safe healthcare services and acts as a call to action for all stakeholders in the healthcare sector. It represents our collective determination to ensure healthcare safety for every patient in India.

I am confident that the insights and strategies outlined here will significantly advance our patient safety efforts. Together, we are on a journey towards a future where exceptional patient safety is a reality for all.



Dr. Atul Mohan Kochhar MD, DNB, MNAMS, FAAD CEO, NABH

In today's rapidly evolving healthcare landscape, unintended harm is still a constant and leading cause of morbidity and mortality which reveals that ensuring patient safety is paramount. As the healthcare industry continues to advance, so must our commitment to providing the highest standards of care and protection for those we serve.

At the National Accreditation Board for Hospitals & Healthcare Providers (NABH), our mission is to promote and enhance the quality of healthcare delivery in India. We recognize that patient safety is not merely a goal, but a fundamental principle that must guide every aspect of our work. It is imperative that patients and their families feel confident in the care they receive, knowing that their well-being is our top priority.

As leaders in the healthcare industry, both NABH and NATHEALTH have long been champions of healthcare quality and patient safety, advocating for rigorous standards and continuous improvement in healthcare delivery. It is with great pleasure and pride that I extend my heartfelt congratulations to NATHEALTH on the release of this groundbreaking whitepaper on patient safety. This whitepaper represents a significant milestone in our collective efforts to advance the cause of patient safety and quality care across India's healthcare landscape.

This whitepaper serves as a comprehensive guide to understanding the intricacies of patient safety within the healthcare ecosystem. It explores the latest research, best practices, and innovative strategies aimed at mitigating risks and preventing harm to patients. By equipping healthcare professionals with the knowledge and tools necessary to optimize patient safety, we can foster a culture of continuous improvement and accountability across the industry. The insights and recommendations presented in this whitepaper are a testament to the dedication and expertise of the individuals and organizations involved. I am sure that this document serves as a valuable resource for healthcare providers, policymakers, and stakeholders alike.

As we navigate the challenges and opportunities of modern healthcare, collaboration and communication are essential. I commend the authors, researchers, and industry experts who have contributed their insights to this whitepaper. Together, we can uphold the highest standards of patient safety and ensure that every individual receives the quality care they deserve. Your dedication to improving patient safety is truly commendable, and I am confident that your insights will inspire positive action and innovation in the years to come.

I commend NATHEALTH for their unwavering commitment to advancing healthcare in India and for their partnership in this important endeavor. By joining forces, we can amplify our impact and drive meaningful change in patient safety practices nationwide.

I invite healthcare providers, policymakers, and stakeholders alike to join us in our ongoing efforts to prioritize patient safety. Together, we can make a meaningful difference in the lives of those we serve, advancing the collective goal of achieving excellence in healthcare delivery and taking the Quality, Safety and Wellness to the last man in the line.

Jai Hind.

Praxis Note



Aryaman Tandon
Managing Partner & Cofounder
Praxis Global Alliance

The pursuit of a safer healthcare environment for all patients in India has been a continuous journey. Our firm has embarked on a comprehensive nationwide assessment of patient safety practices, culminating in this white paper. Through a rigorous assessment involving 1,125 healthcare professionals across diverse roles and regions, coupled with in-depth interviews with industry leaders and experts, we have gained valuable insights into the current state of patient safety in India.

This white paper acknowledges the commendable strides India has taken with initiatives like NABH, NABL, and NQAS. However, significant challenges remain. Our analysis reveals a spectrum of issues, ranging from staffing limitations and communication gaps to a lack of robust safety culture, inadequate patient empowerment, and resource constraints, further amplified by the looming threat of antimicrobial resistance.

Recognizing the urgency for improvement, this white paper presents a comprehensive nine-lever strategic approach. This framework encompasses collaborative leadership, data infrastructure, workforce development, patient empowerment, communication, technology integration, policy reforms, public awareness, and resource allocation. Each lever is meticulously designed to address specific aspects of patient safety, fostering a holistic and sustainable transformation. The white paper goes beyond proposing a framework. It outlines a detailed implementation roadmap, defining achievable goals, timelines, and the critical roles of key stakeholders – including the QCI, NABH, NABL, and NATHEALTH among others. This roadmap serves as a blueprint for driving patient safety excellence, aligning with global standards and contributing to India's national healthcare goals.

As we navigate the complexities of the Indian healthcare landscape, a collective effort is imperative. We must embrace a culture of shared responsibility, continuous learning, and a relentless pursuit of excellence in patient safety. Only through a concerted effort involving healthcare professionals, regulatory bodies, industry associations, government agencies, and the broader community can we truly transform patient safety practices and ensure the well-being of every individual entrusted to our care.

We, at Praxis Global Alliance, extend our gratitude to the numerous stakeholders who contributed their invaluable insights and expertise to this endeavor. Together, we can pave the way for a safer, more equitable, and patient-centric healthcare system that upholds the highest standards of quality and safety.

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Glossary of terms

Acronym Description

AEMT Adverse Effects of Medical Treatment

AMR Antimicrobial Resistance

ASSOCHAM The Associated Chambers of Commerce and Industry of India

BCMA Bar Code Medication Administration

CDSCO Central Drugs Standard Control Organisation

CHC Community Health Center

CII Confederation of Indian Industry

CHC Community Health Centre

CMS Centers for Medicare & Medicaid Services

CSO Civil Society Organization

DALY Disability-Adjusted Life Years

DHC District Health Center

EPS Electronic Prescribing Service

Federation of Indian Chambers of Commerce & Industry

HCP Healthcare Provider

ICD-10 International Classification of Diseases, 10th Revision

IRDA Insurance Regulatory and Development Authority

IPHS Indian Public Health Standards

IPSG International Patient Safety Goals

ISQua International Society for Quality in Health Care

JCI Joint Commission International

MOHFW Ministry of Health and Family Welfare

MusQan Mission Quality for the provision of quality child-friendly services

NABH National Accreditation Board for Hospitals

NABL National Accreditation Board for Testing and Calibration Laboratories

NAP-AMR National Action Plan on Antimicrobial Resistance

NATHEALTH Healthcare Federation of India

NHA National Health Authority

NQF National Quality Forum

NHM National Health Mission



NHSRC National Health Systems Resource Centre

NQAP National Quality Assurance Program

NQAS National Quality Assurance Standards

NPSC National Patient Safety Council

NPSIF National Patient Safety Implementation Framework

PAG Patient Advisory Group

PFAC Patient and Family Advisory Councils

PFPS Patients for Patient Safety

PHC Primary Health Center

PHF Public Health Facility

PvPI Pharmacovigilance Programme of India

QCI Quality Council of India

QSEN Quality and Safety Education for Nurses

RUP Re-use Prevention

SaGushal Safety and Quality, Self-Assessment Tool for Health Facilities

SDI Socio-demographic Index

TEG Technical Expert Group

UHC Universal Health Coverage

UT Union Territory

WHO World Health Organization



INTRODUCTION



1.0 INTRODUCTION

Patient safety is a key dimension of healthcare quality, standing alongside accessibility, acceptability, effectiveness, affordability, efficiency, and people-centeredness. Ensuring patient safety is at the core of providing quality healthcare. It involves safeguarding patients from any avoidable harm or potential risks associated with medical treatment.

Exhibit 1

Key patient safety components



Location of vital departments, regular maintenance, and fire preparedness are crucial for physical safety. Ensuring proper electrical wiring, water supply, and acoustics falls under engineering and service safety. Also, having a fire safety plan is an important aspect of addressing the safety concerns inside a hospital. Clinical care safety prioritizes infection control and medication error reduction, which are significant concerns in India. Studies reveal high rates of medication errors and hospital-acquired infections, necessitating focused efforts to create a safer healthcare environment.

1.1 Understanding patient safety and its definition

Several international organizations, such as the WHO, JCI, ISQua, National Quality Forum, and World Alliance for Patient Safety, are involved in promoting patient safety across the globe.

According to WHO, patient safety is defined as "the absence of preventable harm to a patient and reduction of risk of unnecessary harm associated with health care to an acceptable minimum."







Exhibit 2

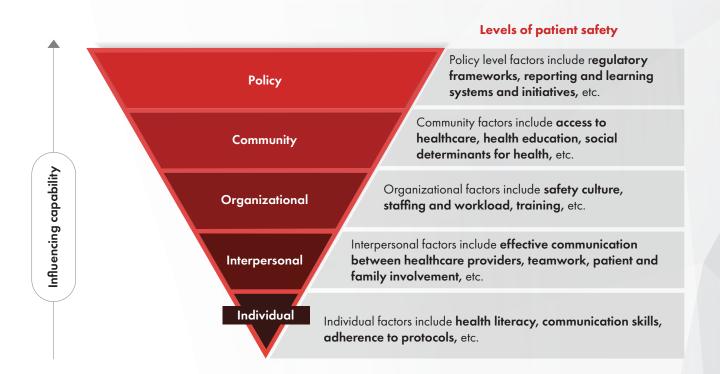
International organizations involved in patient safety and their key objectives

International organizations involved in patient safety **WHO** JCI ISQua **NQF** IOM • Facilitating sustain-• Identifying patients Inspiring and driving • Reducing harm and Preventing errors preventable medical able improvements correctly improvement in · Learning from the in patient safety and health, and the errors that do occur Improving effective safety and quality of managing risks to communication • Preventing healthcare · Building a culture of prevent patient harm healthcare world--associated • Improving the safety safety that involves wide infections healthcare of high-alert medicaprofessionals, tions organizations, and • Ensuring safe surgery patients • Reducing the risk of healthcareassociated infections · Reducing the risk of patient harm resulting from falls

Patient safety is not only about the patient/individual but also about the entire system's involvement in patient safety. These include patient safety levels/factors – individual, interpersonal, organizational, community, and policy.

Exhibit 3

Levels of patient safety





The impact of safety lapses is particularly high in low and middle-income countries, including India. As per the WHO research, these lapses contribute to an alarming 134M adverse events annually in low and middle-income countries, leading to 2.6M deaths. In high-income countries, around 1 in every 10 patients is harmed in healthcare. Above 50% of harm (1 in every 20 patients) is preventable; half of this preventable harm is attributed to medications.

1.2 Patient safety aspects – Clinical and product safety

Exhibit 4

Patient safety aspects - Clinical and product safety



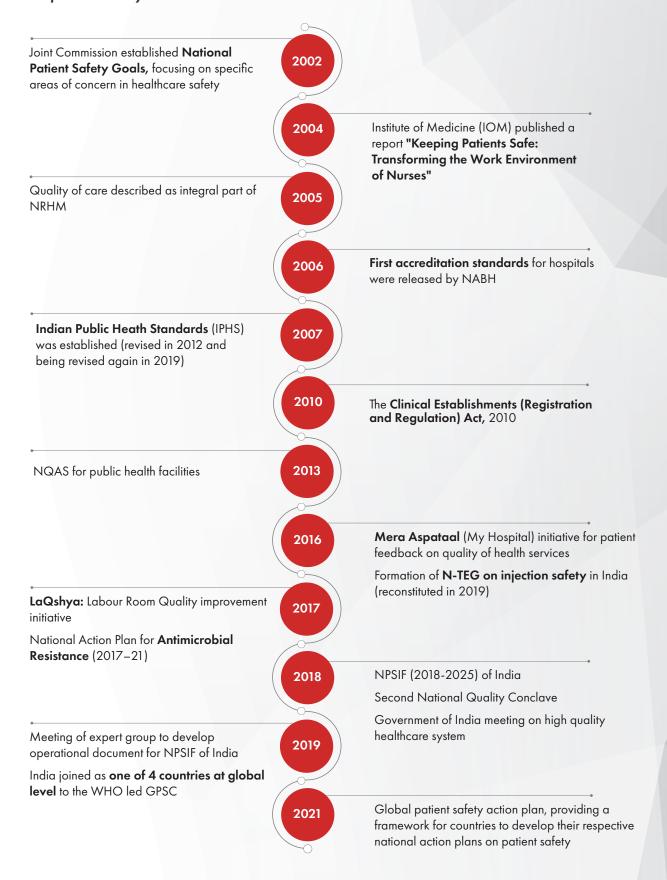
This concept encompasses clinical and product aspects of healthcare, such as safe surgical procedures, secure childbirth, injection safety, blood safety, medication safety, and the safety of medical devices. It also extends to ensuring the safety of organ, tissue, and cell transportation and donation, as well as the proper management of biomedical waste. Addressing patient safety involves preventing healthcare-associated infections and addressing issues related to unsafe clinical practices, inadequate processes, and inefficient systems. Patient safety data tracks incidents and perceptions to identify areas for improvement in preventing healthcare errors and harm to patients.



1.3 Evolution of patient safety

Exhibit 5

Evolution of patient safety





The Joint Commission established **National Patient Safety Goals** in **2002**, focusing on specific areas of concern in healthcare NQF endorsed a list of serious reportable events in 2002, leading to the identification of Never Events*, which became the ba changes in reimbursement policies by CMS in 2008.

Other prominent initiatives include the "Keeping Patients Safe: Transforming the Work Environment of Nurses" report por 2004, and the QSEN project, initiated in 2006. International organizations initiatives such as PFPS, established by WHO in engage patients and families globally to advocate for safer, people-centered healthcare. WHO's ongoing efforts include the C Patient Safety Network and initiatives like the Medication Without Harm Challenge. JCI sets global patient safety standards with for 2023. The purpose of the six IPSGs is to promote specific improvements in patient safety.

Exhibit 6

JCI's six IPSGs

Identify patients correctly

This goal stresses the importance of using **two identifiers** for **accurate patient identifice** enhancing safety through standardized processes and staff training

2 Improve effective communication

This goal aims to **reduce medical errors** by establishing **clear communication process fostering a culture of openness** among healthcare staff

Improve the safety of high-alert medications

This goal minimizes risks by implementing stringent safety protocols, reducing medical errors, and enhancing patient safety

Ensure safe surgery

This goal focuses on **checklists**, **patient consent**, **and teamwork** to minimize surgical ri enhance patient safety

Reduce the risk of healthcare – associated infections

This goal aims to **prevent infections** in healthcare settings through measures like **hand h** infection control rules, and surveillance

Reduce the risk of patient harm resulting from falls

This goal aims to prevent patient harm from falls by **identifying risk factors** and **implem individualized prevention plans** in healthcare settings

Note(s): *Never Events or Serious Reportable Events is a compilation of serious, largely preventable, and harmful clinical events, designed to help the healthcare field assess, measure, and report performance in providing safe care







PATIENT SAFETY IN INDIA



2.0 PATIENT SAFETY IN INDIA

2.1 Current state of patient safety

Exhibit 7

Benchmarking India's patient safety indicators against key economies

		Norway	Canada	UK	Australia	USA	India
Metrics	Units	4	(*)				(a)
Deaths due to AEMT, 2019	% of total deaths	0.07	0.14	0.20	0.22	0.17	0.35
DALYs due to AEMT, 2019	% of total DALYs	0.05	0.12	0.13	0.16	0.16	0.22
Maternal mortality rate, 2020	Per 100K live births	2.00	11.00	10.00	3.00	21.00	103.00
Neonatal mortality rate, 2021	Per 1K live births	1.29	3.41	2.80	2.37	3.27	19.12
Patients reporting medication-related mistake, 2020	% of total population	7.40	5.10	3.70	3.00	5.20	9.50
Treatable mortality rate, 2020	Per 100K population	51.00	58.00	<i>7</i> 1.00	47.00	98.00	180.00*

Low High

Note(s): AEMT: Adverse effects of medical treatment; DALY: Disability-adjusted life years; *data as of 2018 Source(s): GBD, OECD, WHO, Praxis analysis

The study on the effects of adverse events in medical treatment upon patient safety for the year 2019 reveals that India lags behind other countries both in comparison as well as in the global average for both deaths and DALYs due to AEMT. The deaths due to AEMT in India were estimated to be **0.35**% of the total deaths in 2019, whereas the global average stood at merely **0.21**%. Similar trends are seen in the DALYs due to AEMT, where India's DALYs were estimated at **0.22**% of total DALYs, significantly higher than the global average of DALYs as a percentage of total DALYs, which stood at **0.16**%. The maternal mortality rate in India was **103 per 100K live births**, substantially higher compared to developed countries, for which the rate was **less than 5 per 100K live births**. The neonatal mortality rate in India was reported to be 19.12, higher than in other developed countries. **9.5**% of the total population reported medication-related mistakes in India, while the treatable mortality rate stood at **180 per 100K population** in India, much higher than in developed countries, indicating the need for proper patient safety protocols.



2.2 Regulatory bodies and standards

Exhibit 8

Accreditation bodies and regulations

Accreditation bodies and regulations

		Formulates and implements accreditation initiatives for hospitals and healthcare organizations
	NABH	Defines benchmarks for the advancement of the health industry in terms of safety and quality of care
		• Indicates quality indicators such as monitoring of medication error rate, % of adverse drug reactions, etc.
s	NABL	Accredits medical laboratories in India, ensuring adherence to international standards for testing quality and reliability
d bodie	NADL	 Enhances accuracy and reliability of diagnostic tests which contributes to accurate diagnoses, improved patient safety and quality of care
Associated bodies	NHSRC	National Health Mission initiatives like National Quality Assurance Standards, Kayakalp, and LaQshya focus on patient safety parameters: medication safety, surgical safety, infection prevention, etc.
٩	TEG	Focuses on injection safety, including healthcare waste management
	IEG	Aims to diminish the reuse of injection equipment by introducing safety-engineered devices
	CDSCO	Thorough review process which prevents harmful drugs, safeguarding patients, and ensuring effective treatments
		Monitors drug safety by analyzing adverse reactions reported by healthcare professionals and patients

	Clinical Establishments Act, 2010	 Facilitates the registration and regulation of all clinical establishments nationwide Ensures that the security and safety of the patients, staff, visitors is mandated through the safety installations
	Pharmacy practice regul- ations, 2015	Involves the compounding and labeling of drugs and devices, excluding labeling by manufacturers, repackers, or distributors of non-prescription drugs and commercially packaged legend drugs and devices
	Drug & Cosmetics act 1940	Governs the import, manufacturing, and distribution of drugs in India
ions	P∨PI	Collects, compiles, and analyzes adverse events related to drugs, providing recommendations to the CDSCO for necessary regulatory actions
Regulations	IPHS	Established in 2007 as a reference for planning and upgrading healthcare infrastructure , ensuring uniform standards across sub-centers, PHCs, CHCs, sub-district, and district hospitals
	SaQushal	 Evaluates hospitals from a patient safety standpoint, enhancing staff proficiency in patient safety Provides support to patients and their families in decision-making processes Reinforces evidence-based practices crucial for advancing patient safety and healthcare quality
	AMR Plan	 Outlines strategic priorities and interventions from 2017–21 to tackle the public health threat of AMR Covers all five major objectives and the additional priority of strengthening India's leadership on AMR
	NPSIF	 Elevates patient safety standards across all tiers of healthcare Cultivates a proficient and capable healthcare workforce





2.2.1 NABH

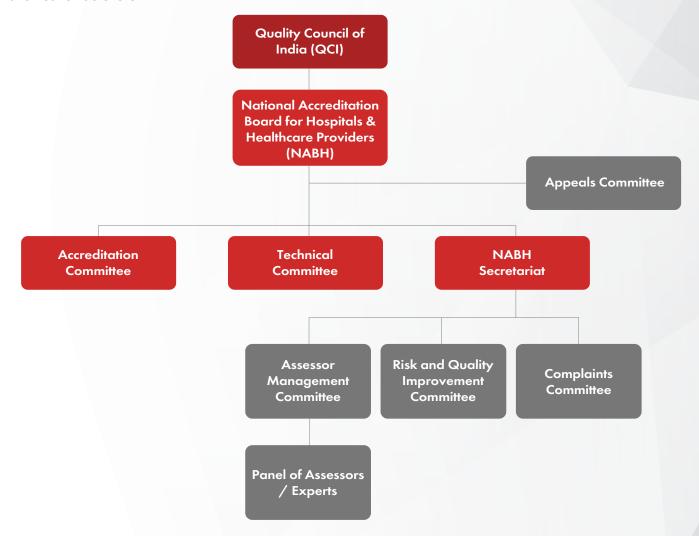
QCI is a non-profit and autonomous organization established in 1997 by the Indian government and industry associations such as **ASSOCHAM**, **CII**, and **FICCI**. QCI's main purpose is to drive quality movement across industries (including healthcare), provide accreditation, and establish credibility.

The NABH, an integral part of QCI, is tasked with **formulating and implementing accreditation initiatives** for hospitals and healthcare organizations, while also **defining benchmarks** for the advancement of the health industry in terms of safety and quality of care. Distinguished by its distinctive governing body, NABH includes representatives from various sectors, encompassing the Government of India, private hospitals, and key private associations such as CII, ASSOCHAM, and FICCI, among others.

NABH has indicated **quality indicators**, which a hospital preparing for accreditation must necessarily monitor. The total quality indicators listed as mandatory for the NABH accreditation are **32**.

Exhibit 9

Hierarchical structure of NABH



2.2.2 NABL

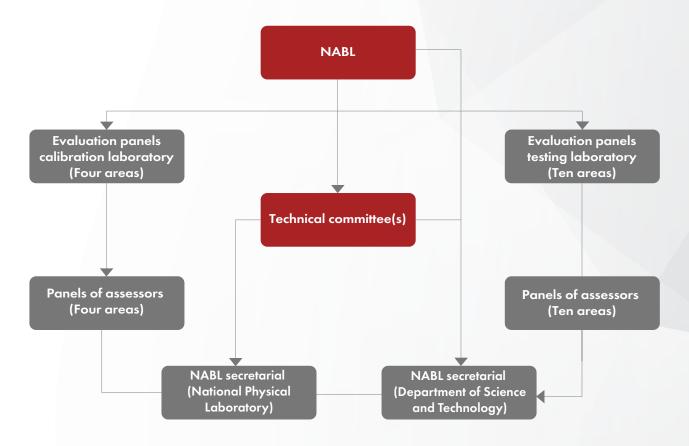
NABL plays a significant role in ensuring patient safety in India by accrediting laboratories. NABL sets standards for the **competence**, **quality of testing**, and **calibration services** provided by laboratories across various sectors, including healthcare. By accrediting medical laboratories, NABL ensures that they adhere to international standards and best practices in testing methodologies, equipment calibration, and quality management systems. This accreditation process helps to enhance the reliability and accuracy of diagnostic tests conducted in medical laboratories, thereby contributing to improved patient safety and quality of care. Additionally, NABL accreditation provides assurance to patients, healthcare providers, and regulatory authorities regarding the reliability and competence of laboratory services, ultimately promoting confidence in the healthcare system.





Exhibit 10

Organization structure for policy implementation of NABL



2.2.3 NHSRC

Established in **2006**, the NHSRC's mandate is to assist in **policy and strategy development** in the provision and mobilization of technical assistance to the states.

Key values of NHSRC include:

- Promotes health equity and well-being for all people
- Promotes engagement and partnership across sectors to foster research by contributing to policies and strategies
- Ensures and improves public health functions through continuous monitoring, supportive supervision, and helping the states
 meet the standards
- Strengthens, supports, and mobilizes communities to improve health

2.2.4 TEG

The MOHFW established a TEG specifically focused on **injection safety**, including healthcare waste management in India. **The injection safety implementation project**, shared and discussed in the inaugural meeting of the **TEG** on **injection safety** in New Delhi on July 13, 2016, is a collaborative effort supported by the TEG and the Government of India. The project aims to **diminish the reuse of injection equipment** by introducing safety-engineered devices and addressing the issue of overused injections through a behavior change communication strategy. The Government of India has already advised the states to progressively shift the procurement in the government sector to **RUP syringes** in a phased manner, since 2018.

2.2.5 CDSCO

The CDSCO ensures patient safety in India through **rigorous processes**. It evaluates the **safety and efficacy of new drugs** before approval, **monitors adverse drug reactions** post-market, and **regulates pharmaceutical manufacturing standards** to prevent the distribution of substandard medications. CDSCO also **oversees clinical trials** to uphold ethical and safety standards and conducts public awareness campaigns to educate patients and healthcare professionals about medication safety. Through these efforts, CDSCO plays a pivotal role in safeguarding patient health and well-being in the country.





2.2.6 Clinical Establishments Act, 2010

The Parliament of India enacted the Clinical Establishments Act on August 17, 2010, to facilitate the registration and regulation of all clinical establishments nationwide. The overarching aim is to set forth minimum standards for the facilities and services offered by these establishments, aligning with the constitutional mandate outlined in Article 47. This constitutional directive emphasizes the imperative for enhancing public health, and the Clinical Establishments Act serves as a pivotal tool in realizing this goal by establishing comprehensive regulations for the healthcare sector. The Act applies to all kinds of clinical establishments in the public and private sectors, of all recognized systems of medicine including single-doctor clinics. The only exception is establishments run by the armed forces which are not regulated under this Act.

The Clinical Establishments Act also has regulations that ensure the security and safety of the patients, staff, visitors, and relatives as mandated through the safety installations and measures. The hospital is required to demonstrate preparedness for emergencies, both fire and non-fire, emphasizing safety for patients, attendants, staff, and visitors. Adherence to local fire safety laws is essential, covering prevention, detection, mitigation, evacuation, and containment. Staff training and documented mock drills are obligatory.

2.2.7 Pharmacy Practice Regulations, 2015

Pharmacy practice involves the compounding and labeling of drugs and devices, excluding labeling by manufacturers, repackers, or distributors of non-prescription drugs and commercially packaged legend drugs and devices. It also encompasses the responsible and secure storage of drugs and devices, along with the meticulous maintenance of accurate records.

The pharmacist's practitioners are currently licensed, registered, or otherwise authorized under the Act to counsel or otherwise administer drugs. They bear the responsibility of ensuring the safe, suitable, and cost-effective utilization of medications.

2.2.8 Drug & Cosmetics Act, 1940

The Drugs and Cosmetics Act of 1940, a legislation of the Indian Parliament, governs the import, manufacturing, and distribution of drugs in India. Its fundamental goal is to guarantee the safety, effectiveness, and adherence to state quality standards of drugs and cosmetics sold in the country. The regulation states that the surveillance of safety for Ayurveda, Siddha, Sowa-Rigpa, Unani, and Homoeopathy drugs places legal responsibility on the drug manufacturer and marketer.

2.2.9 PvPI

The PvPI serves as the flagship drug safety monitoring initiative of the Government of India. It systematically collects, compiles, and analyzes adverse events related to drugs, providing recommendations to the CDSCO for necessary regulatory actions. The mission of this program is to safeguard the health of the Indian population by ensuring that the benefits of the medicine outweigh the risks associated with its use while the vision is to improve patient safety and the welfare of the Indian population by monitoring the safety of medicines, thereby reducing the risks associated with their use.

Exhibit 11

Key objectives of PvPI

Capacity building and advocacy

• Providing training and technical support globally and advocating for rational medication use

PvPI objectives

Global collaboration and data management

 Collaborating with National Centers worldwide for information exchange and data management

• Disseminating safety information to stakeholders



Comprehensive safety system

· Creating a nationwide patient-safety and drug-safety network

Signal identification and analysis

 Identifying and analyzing emerging signals from reported cases



Benefit-risk analysis

 Evaluating the benefit-risk ratio of marketed medications



Regulatory collaboration

Stakeholder communication

• Assisting regulatory agencies globally in decision-making regarding medication use



Evidence-based safety information

· Generating evidence-based information on medicine safety



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2.2.10 IPHS

The IPHS were established in 2007 as a reference for **planning and upgrading healthcare infrastructure**, ensuring uniform standards across sub-centers, PHCs, CHCs, sub-district, and district hospitals. Revised IPHS guidelines, accommodating changing protocols and new programs, provide flexibility to meet diverse state needs, serving as a benchmark for continuous quality improvement. States and UTs are encouraged to adopt these guidelines to enhance public healthcare.

Indian Public

Health Standards

2022

Exhibit 12

IPHS

Defining uniform benchmarks

Ensuring accountability, responsiveness, and sensitivity to community needs

Guidance, tools, and evaluation for governance

 Providing resources for governance, leadership, and continuous evaluation in the healthcare system

Facilitating monitoring and supervision

 Creating mechanisms for effective oversight of health facilities

Setting essential and achievable service standards

 Specifying minimum assured and desirable services at various public health facility levels

Guidance on health systems

 Covering architectural design, human resources, drugs, diagnostics, equipment, and administrative support for improved health outcomes

Maintaining acceptable standards of quality care

 Aiming for and sustaining a high level of care at public health facilities which can increase the patient safety

2.2.11 SaQushal

SaQushal is a self-assessment tool for hospitals and clinics to evaluate their performance on various safety and quality aspects. It helps to identify areas for improvement and implement corrective actions.

SaQushal encompasses four areas of concern: safe patient care process, clinical risk management, safe care environment, and patient safety systems. Each area of concern comprises four safety standards, delineating various parameters. In total, there are sixteen standards, providing a comprehensive overview.

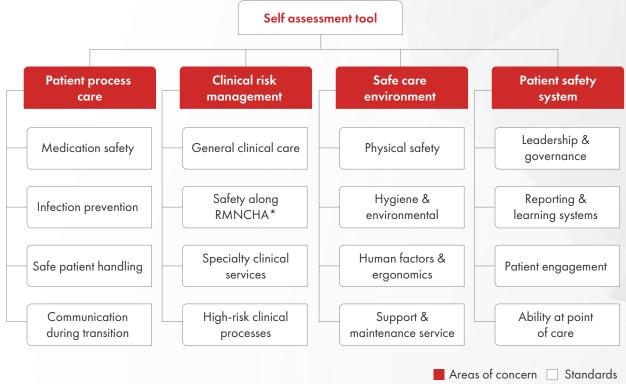






Exhibit 13

SaQushal - Overview of areas of concern and standards of self-assessment tools



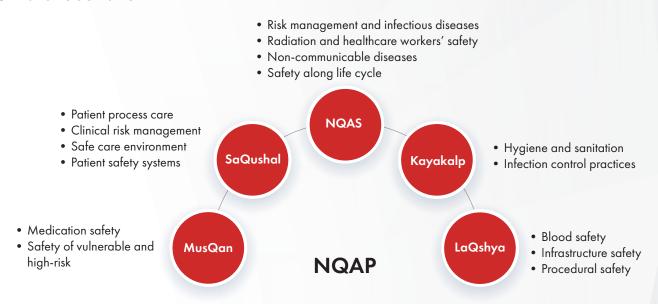
^{*}RMNCHA - Reproductive, Maternal, Newborn, Child, Adolescent Health

The MOHFW, Government of India, introduced the **NQAS** to elevate service quality and healthcare outcomes across various facilities. NQAS is a national program that establishes benchmarks for quality and safety in healthcare facilities. Facilities performing well in **SaQushal** can progress toward **NQAS** certification, signifying a steadfast commitment to providing high-quality and safe care.

These benchmarks have gained national and international recognition from entities like the **NHA**, **IRDA**, and **ISQua**. The initiative is anchored on quality standards, encompassing fundamental principles of the Quality Management System. With **74 quality standards** and **362 measurable elements** at the district hospital level, the framework inherently addresses diverse aspects of patient safety, including clinical care safety, environmental considerations, medication safety, infection prevention, surgical safety, fire and electrical safety, and infectious waste management.

Exhibit 14

NQAP and its domains





Furthermore, NQAS incorporates global patient safety campaigns such as a safe surgery checklist, safe childbirth practices, safe injections, medication review and optimization, and promotion of non-mercury devices. The Kayakalp scheme incentivizes PHFs to uphold high levels of cleanliness, hygiene, and infection control. LaQshya focuses on enhancing intra and immediate partum care and promoting respectful maternity care in labor rooms and maternity operation theatres. Addressing broader social, nutritional, and quality service concerns, the MusQan initiative ensures the provision of quality child-friendly services in public health facilities.

The NQAS have been crafted considering the specific requirements of public health facilities and incorporating global best practices. These standards are currently applicable to DHCs, CHCs, PHCs, and Urban PHCs. The primary objective of NQAS is to enable HCPs to assess the quality of their services for continuous improvement, utilizing predefined standards to elevate their facilities to certification standards. Organized into 8 comprehensive "Areas of Concern," the NQAS covers service provision, patient rights, inputs, support services, clinical care, infection control, quality management, and outcome. This structured approach facilitates providers in systematically evaluating and enhancing various aspects of their healthcare delivery. Crucially, these standards are accredited by the ISQUA, attesting to their adherence to global benchmarks in terms of comprehensiveness, objectivity, evidence-based practices, and the rigorous development process. This accreditation reinforces the credibility and reliability of the NQAS in promoting excellence and accountability within healthcare facilities.

Exhibit 15

Measurement system for various levels of facilities

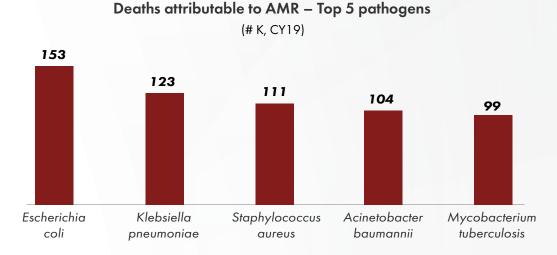
Parameter	District hospital	Community health center	Primary health center	Urban primary health center	Health and wellness center
Areas of concern	8	8	8	8	8
Standards	75	65	50	35	50
Measurable elements	380	297	250	200	129
Checklists	21	12	6	12	1

2.2.12 National AMR Plan

Globally, **4.9M+** people who died in 2019 suffered from drug-resistant infections, with AMR directly causing **~1.3M** of those deaths. In 2019, India witnessed **297K deaths attributable to AMR**, with an additional **~1M deaths** associated with AMR. Among 204 countries, India ranks **145**th in terms of age-standardized mortality rate per 100,000 population associated with AMR.

Exhibit 16

Deaths attributable to AMR



Source(s): IHME, Praxis analysis





AMR deaths in India exceed mortality from leading diseases like cancer, respiratory infections, diabetes, and maternal conditions. Five pathogens drive most AMR deaths: Escherichia coli (~153K deaths), Klebsiella pneumonia (~123K), Staphylococcus aureus (~111K), Acinetobacter baumannii (~104K), and Mycobacterium tuberculosis (~99K). The next critical steps are financing and monitoring this plan using available data. Implementation and funding of India's national action plan based on current evidence can help address the major threat AMR poses to public health in the country.

India's **NAP-AMR** outlines strategic priorities and interventions from 2017-21 to tackle the public health threat of AMR. The primary objective of the NAP-AMR is to effectively combat AMR in India and make substantial contributions to global endeavors addressing this challenge. Adopting a **One Health approach**, which is an integrated, unifying approach to balance and optimize the health of people, animals, and the environment, targets key aspects of AMR across human, animal, agricultural, fisheries, and environmental sectors.

Exhibit 17

Strategic priorities of NAP-AMR

Strategic priorities of NAP-AMR



Raising awareness, improving understanding

- Raise AMR awareness -Communicate with stakeholders including policymakers, public, and farmers
- Improve AMR understanding -Educate and train professionals to enhance knowledge and behavior

2

Strengthen knowledge and evidence through surveillance

- Reinforce laboratories in human, animal, food, and environmental sectors to enable evidence-based policymaking
- Conduct antimicrobial resistance surveillance across human, animal, food, and environmental sectors to guide evidence-based policymaking

3

Infection prevention and control to reduce incidence

- Curb infection in healthcare settings
- Limit the spread of AMR and antimicrobials through animal health and food systems
- Contain the transmission of AMR and antimicrobials in communities and environments



Optimize antimicrobial use across sectors

- Regulate antimicrobial access and track use to enable rational utilization
- Steward programs in healthcare for responsible human use
- Optimize agricultural antimicrobial use for responsible food production

5

Investments, research, and innovations for AMR

- Develop new diagnostics and medicines to effectively treat infections
- Innovate alternative approaches to manage infectious diseases
- Finance sustained resources for AMR containment

6

Strengthen India's leadership on AMR

- Foster international collaborations for India to contribute to global AMR containment
- Enable national collaborations across disease control programs and stakeholders
- Drive state-level collaborations to translate action against AMR on-ground

Strategic priorities focus on raising awareness, optimizing antimicrobial use, promoting research and innovation, and facilitating collaborations from the international to state levels to translate the plan into tangible action against AMR.

2.2.13 NPSIF (2018-25)

The overarching objective of the NPSIF is to elevate patient safety standards across all tiers of healthcare, encompassing diverse modalities of healthcare provision. This includes activities related to prevention, diagnosis, treatment, and follow-up, all within the broader context of enhancing the overall quality of care and advancing toward UHC over the next decade.

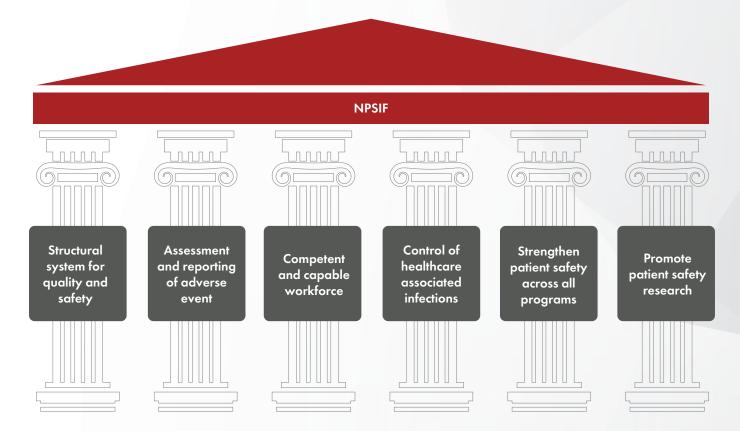


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Exhibit 18

Overview of NPSIF



In pursuit of enhancing patient safety, a meticulous process involving stakeholder consultations and a comprehensive review of global and regional patient safety frameworks has identified six strategic objectives:

- Elevate the structural systems supporting healthcare to enhance both quality and efficiency, spanning national, subnational, and healthcare facility levels
- Systematically evaluate the nature and magnitude of adverse events, establishing a robust system for reporting and continuous learning to improve patient safety
- Cultivate a proficient and capable healthcare workforce, instilling awareness, and sensitivity towards patient safety as integral components
- Institute measures to prevent and control healthcare-associated infections, contributing to a safer healthcare environment
- Execute global patient safety campaigns and fortify patient safety integration across all healthcare programs, aligning with international efforts
- Bolster capacity for and advocate patient safety research, thereby contributing to the ongoing advancement and promotion
 of patient safety practices

The National Steering Committee, under the Ministry of Health & Family Welfare, Government of India, plays a pivotal role in orchestrating the nationwide implementation of the patient safety framework. Its mandate includes technical advisory, supervisory, administrative, and regulatory responsibilities delegated to existing authorities mandated by relevant healthcare legislation. The committee's composition is comprehensive, including officials from the Ministry of Health, representatives from technical support institutions, the NHM, NHSRC, state quality assurance committees, professional associations, WHO, private sector associations, medical colleges, accreditation agencies, consumer protection groups, and pharmacovigilance agencies. This diverse representation ensures a holistic and collaborative approach, integrating expertise from various domains to effectively steer patient safety efforts nationally.



DEEP DIVE INTO PATIENT SAFETY IN INDIA-PRIMARY ASSESSMENT WITH HCPs



3.0 DEEP DIVE INTO PATIENT SAFETY IN INDIA – PRIMARY ASSESSMENT WITH HCPs

3.1 Key objectives of the patient safety assessment

Exhibit 19

Key objectives of the assessment

Patient safety culture	Mitigating constraints	Adverse event reporting enhancement	Operational workflow	Patient safety across work areas
Assessing stakeholders	Assessing staffing levels	Evaluating reporting practices	Streamlining processes	Identifying high risk areas
Identifying culture deficits	Resource allocation	Risk identification and mitigation	Balancing productivity with risk mitigation	Strategy identification
Fostering safety first environment	Developing workforce strategies	Fostering a just culture	Strengthening risk management practices	Ensuring equitable safety standards

This enhanced framework for a **national-level patient safety assessment** in India is designed to understand the current levels of patient safety. This patient safety assessment was aimed at understanding the varying perspectives on patient safety held by different stakeholders, including healthcare professionals like doctors and nurses, as well as hospital leadership. Secondly, we investigated the **impact of staffing levels** on patient safety across various departments and regions. In addition, we aimed to improve **risk identification** by examining current practices for reporting adverse events and exploring opportunities for enhancement. Finally, the assessment sought to **optimize safety standards** by evaluating regional variations in patient safety challenges. This information will be used to develop targeted interventions that ensure consistent and high patient safety standards across the entire healthcare system.

Tools: Questionnaires, interviews, data analysis, gap analysis, and patient safety resources



Exhibit 20

Research methodology

Parameter	Survey	Interview		
Goal definition To understand current gaps in patient safety		To understand current gaps and best practices to mitigate them		
Hospital admins Doctors Nurses Management team Other medical staff		 Doctors Nurses Management team Patient safety experts Key policy makers 		
Design Close-ended questionnaire		Open-ended questionnaire		
Population 1,125		44		
Format	Online surveys	Online meeting		
Type of answers	Objective	Descriptive		
Institutions involved NABH and NATHEALTH		NABH, NATHEALTH, and AHPI		
Data analysis	Quantitative (statistical)	Qualitative (transcription and narrative analysis)		

The research methodology integrates both survey and interview methodologies, encompassing both qualitative and quantitative measures. The primary objective is to comprehensively comprehend the prevailing best practices and identify existing gaps within the patient safety system. The survey component involved the participation of 1,125 hospital staff members, while interviews were conducted with key stakeholders, including doctors, nurses, management teams, and patient safety experts. The surveys were disseminated through reputable platforms such as the NABH and the NATHEALTH forums. Concurrently, the interviews were facilitated through an online meeting format, ensuring an efficient and structured engagement with the diverse set of stakeholders involved.

The survey questionnaires and the interview discussion guides were prepared based on the different measures of patient safety aspects – teamwork, staffing, work pace, organization learning, response to error, supervisor support for patient safety, communication, incident reporting, accreditation impact, event reporting frequency, information exchange, and overall perception along with the understanding of current best practices across the healthcare delivery system for patient safety.



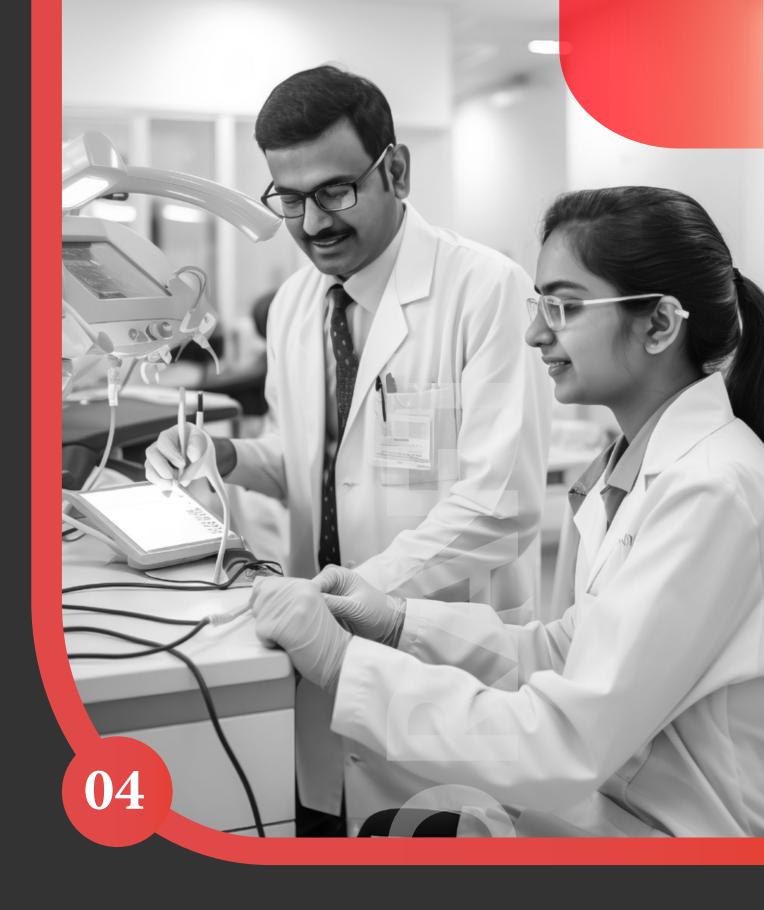


3.3 Sources of input

Exhibit 21

Sources of input

Key approach elements	N	Details	Key areas to explore	
Management interviews	10	In-depth interviews of 30–45-minute conversations with hospital management team	 Key government policies Regulatory landscape with respect to patient safety 	
Government officials' interviews (key policy makers and industry)	2	In-depth interviews of 30–45-minute conversations with government officials	 Information accessibility Patient safety culture Patient centricity Decision making on patient safety aspects Patient safety challenges to be addressed 	
Doctor interviews	5	In-depth interviews of 30–45-minute conversations with key doctors	Best practices and recommendations	
Nursing staff interviews	10	• In-depth interviews of 30–45-minute conversations with nursing staff in hospital (chief of nursing staff)		
Hospital admin interviews	10	In-depth interviews of 30-45-minute conversations with hospital admin/supervisor		
Patient safety expert calls	7	• In-depth interviews of 30–45-minute conversations with hospital admin/supervisor	 Patient involvement and communication Recent improvements in patient safety Best practices 	
Doctor survey			 Working area Management's patient safety priority Communication 	
Nursing staff survey	~1,125	~1,125	Survey forms were distributed to doctors, nursing staff, and hospital admins across the city tiers and regions (with the help of	Reporting patient safety incidenceRatings
Hospital admin survey		NABH)	 Hospital-level patient safety understanding Patient safety challenges to be addressed 	
Secondary research	-	International Organization (WHO) reports Press releases Documentations	Patient safety practicesRegulatory compliance	
Praxis knowledge base	-	Relevant data points and insights from Praxis knowledge base	Patient safety practicesRegulatory compliance	



ANALYSIS AND OBSERVATIONS



4.0 ANALYSIS AND OBSERVATIONS

4.1 Patient safety challenges – Hospitals

Exhibit 22

Key challenges in the patient safety system

Unsafe injection

 Unsafe injection practices, such as reuse of needles and syringes, can lead to the transmission of bloodborne infections such as HIV and hepatitis



High rates of healthcare associated infections

 High rates of healthcare-associated infections in India increase morbidity and mortality, strain healthcare resources, and escalate healthcare expenditure

Medication safety

 Medication errors are common in India due to factors such as improper labeling, dosage miscalculations, and lack of patient education



Anti-microbial resistance

 High rates of AMR can result in antibiotics becoming ineffective in treating common infections, leading to increased morbidity and mortality

Medical device safety

 Faulty medical devices pose risks of malfunctions, injuries, and complications, compromising patient safety and treatment outcomes significantly





Healthcare infrastructure

- Insufficient healthcare facilities lead to overcrowding in hospitals, compromising patient safety
- Public institutions face challenges upgrading to NABH standards, hindering patient safety efforts and quality healthcare delivery

Unsafe practices like **improper injection techniques** and **inadequate medication management** put patients at risk. The **safety of medical devices** themselves is also a concern. Furthermore, **Healthcare-Associated Infections** (HAIs) pose a significant threat, often due to inadequate hygiene protocols. Finally, the **rise of antimicrobial resistance** and **limitations in healthcare infrastructure** add further layers of complexity to the patient safety landscape in India.

4.1 Patient safety challenges – Diagnostics

Exhibit 23

Key challenges in the patient safety system

Ionizing radiation exposure

 Overexposure to ionizing radiation from diagnostic imaging procedures such as X-rays and CT scans can increase the risk of radiation-induced health effects





Low awareness among patients

 Patients have limited awareness of the importance of quality diagnostics and may not be adequately informed about the risks





Training of healthcare workers

 Inadequate training leads to overlooking crucial details, misinterpreting test results, or jumping to the wrong conclusion, potentially causing delays in proper treatment and adverse patient outcomes





Inadequate regulatory oversight

 Regulatory oversight of diagnostic laboratories in India is insufficient, leading to less adherence to quality standards and potential risks to patient safety

Waste disposal

 Improper handling and disposal of hazardous waste poses risks to patient safety and environmental contamination and increases the risk of healthcare-associated infections among patients





Lack of digitalization

 Hinders ability to communicate effectively, leverage decision support tools, access timely and accurate information due to manual data entry errors, and ensure interoperability of patient data

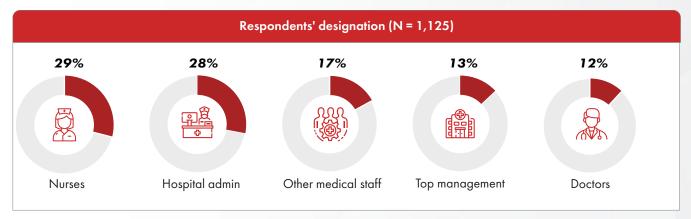
Inadequate training of healthcare workers contributes to errors in interpretation and treatment, while low patient awareness about the importance of quality diagnostics increases the problem. Insufficient regulatory oversight of diagnostic laboratories results in lesser adherence to quality standards, further compromising patient safety. Additionally, the lack of digitalization hinders effective communication, access to timely information, and the utilization of decision support tools, impeding efforts to ensure patient safety in diagnostics. Waste disposal is also a significant issue and poses significant risks, potentially leading to adverse health effects.

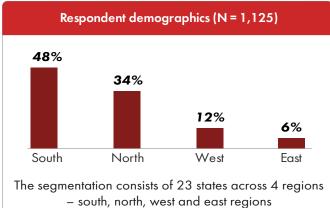
4.3 Observation & data analysis – Stakeholders' perspectives

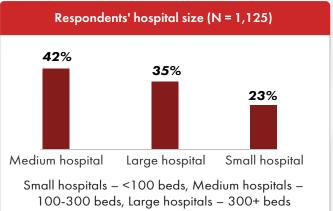
Over 1,125 healthcare professionals participated in an assessment exploring patient safety challenges in Indian hospitals. The respondents came from various regions, with nearly half (48%) residing in the south. Nurses and hospital administrators formed the majority, accounting for 29% and 28% of participants, respectively. The assessment covered hospitals of different sizes, with medium-sized facilities representing the largest portion (42%), followed by large (35%) and small (23%) hospitals.

Exhibit 24

Assessment of the respondents' profile









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4.3.1 Patient safety rating and adverse event reporting

The average patient safety rating landed at **8.20**, with doctors expressing the most confidence in patient safety (**8.51**) compared to other participants. Top management, on the other hand, had the lowest perception with an average rating of **8.06**. Interestingly, the assessment also revealed regional variations. The northern region scored the highest (**8.47**) for patient safety, while medium-sized hospitals came out on top when comparing hospital sizes.

Exhibit 25

Patient safety rating perception of stakeholders

C. 1 1 11		Reg	ion		I	Hospital size		Average
Stakeholders	North	South	East	West	Small	Medium	Large	Average
Nurses	8.50	7.95	8.20	<i>7</i> .10	7.94	8.33	8.00	8.10
Doctor	8.80	8.30	8.75	8.08	9.00	8.74	8.19	8.51
Admin / Supervisor	8.23	8.17	8.16	8.50	8.28	8.20	8.27	8.25
Medical staffs	8.85	8.25	7.67	<i>7</i> .1 <i>7</i>	7.64	8.27	8.38	8.19
Top management	8.33	7.97	8.17	7.52	8.03	8.02	8.17	8.06
Average safety rating	8.47	8.11	8.13	<i>7</i> .83	8.12	8.30	8.17	8.20
		Low			High			

The average adverse event reporting (last 12 months) landed at 3.95, with doctors expressing the least reporting in patient safety (2.65) compared to other participants. Top management, on the other hand, had the highest event reporting perception with an average rating of 4.80. The northern region has the highest adverse event reporting (4.70), while medium-sized hospitals came out on top when comparing hospital sizes.

Exhibit 26

Analysis of adverse event reporting (last 12 months) by stakeholders

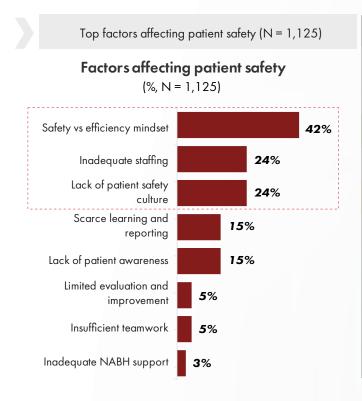
Stakeholders		Re	gion			е	Average reporting	
JIAKEHOIGEI 3	North	South	East	West	Small	Medium	Large	(last 12 months)
Nurses	5.47	2.30	4.50	4.02	2.33	2.91	4.43	3.62
Doctor	3.92	1.69	1.94	2.16	2.00	1.80	3.17	2.66
Admin / Supervisor	4.55	4.67	5.74	4.54	4.02	5.50	4.31	4.67
Medical staffs	5.51	3.25	1.30	4.76	2.53	4.35	3.33	3.67
Top management	3.80	4.94	6.09	6.00	3.57	5.59	5.85	4.80
Average reporting (last 12 months)	4.70	3.24	4.24	4.58	3.20	4.23	4.13	3.95
		low			High			



37



Factors affecting patient safety - Stakeholders' perspective



	Regi	on			Sta	keholde	ers	
North	South	East	West	Nurse	Doctors	Admins	Med. staff	Mgmt. team
3 <i>7</i> 8	542	69	136	331	139	316	196	143
40%	46%	33%	38%	58%	18%	39%	41%	37%
23%	26%	16%	25%	35%	21%	19%	23%	14%
26%	24%	24%	24%	32%	15%	20%	27%	21%
12%	17%	16%	13%	19%	12%	11%	20%	9%
17%	12%	16%	17%	9%	10%	18%	11%	31%
4%	6%	8%	5%	8%	7%	5%	7%	5%
4%	5%	7%	3%	4%	6%	6%	2%	7%
4%	3%	2%	3%	3%	5%	3%	1%	5%

1st reason 2nd reason

4.3.2 Stakeholder's perspective – Nurses

Exhibit 28

Factors impacting patient safety - Nurses' perspective

Factors affecting		Reg	Region			ospital siz	% of nurse			
patient safety	North	South	East	West	Small	Medium	Large	respondents		
Safety vs efficiency mindset	54%	63%	30%	52%	58%	65%	54%	58%		
Inadequate staffing	38%	37%	10%	19%	40%	41%	30%	35%		
Lack of patient safety culture	38%	30%	50%	29%	42%	28%	32%	32%		
Scarce learning and reporting	18%	20%	13%	24%	21%	18%	20%	19%		
Lack of patient awareness	10%	9%	0%	5%	6%	7%	11%	9%		
Limited evaluation and improvement	4%	7%	10%	2%	10%	6%	4%	8%		
Lack of teamwork	3%	5%	0%	0%	6%	3%	4%	4%		
				→						
	Low	Low								



Factors affecting patient safety – Voice of nurses

Factors	Challenge description	Degree of importance	Voice of nurses
Safety vs efficiency mindset	Patient safety gap: There are clear areas in hospitals that require improvement to enhance patient safety, including patient identification, handovers and communication, managing high-risk medications, confirming surgical patients, and preventing hospital-acquired infections and falls		Nurses frequently face dilemmas between following procedures and prioritizing patient safety. To bridge this gap, there's a crucial need for comprehensive improvements in nursing education Nursing head, Large private hospital, Delhi
Lack of patient safety culture	Siloed work culture: Departmental isolation and a lack of collaboration hinder effective communication and learning across disciplines		Hospitals and colleges must collaborate more effectively. Current training falls short, leading nurses to spend valuable time training instead of providing patient care. - Senior nurse, Small private hospital, Kolkata
Inadequate staffing	 Increased workload: Required to take on additional responsibilities and care for more patients than they can effectively manage Higher risk of errors: Fatigue and stress can impair judgment and decision-making 		The workload is overwhelming & it's affecting both patient outcomes & our own well-being. Urgent action is needed to address this staffing shortfall to ensure patient safety - Nursing staff, Medium private hospital, Mumbai
Lack of patient awareness	Patient experience gap: Limited focus on understanding and addressing the patient's concerns and needs during clinical procedures	•	Patients often lack awareness of existing safety guidelines when seeking treatment. Empowering patients can help them make informed decisions - Senior nurse, Large private hospital, Bangalore
Scarce learning and reporting	Knowledge gaps & documentation errors: Inadequate training or unclear guidelines on specific protocols (e.g., IPSG, 6 mandates of medication administration) can lead to errors in documentation and communication		Incident reporting is crucial for quality improvement. Errors must be escalated immediately to investigate their causes effectively - Nurse, Government hospital, Delhi

Degree of importance

Low O High





% of hospital admin respondents

20%

19%

18%

11%

5%

Staffing issues were paramount, with 58% of nurses identifying the pressure to balance safety concerns and efficiency as a major challenge. Inadequate staffing (35%) issues were also significant, suggesting issues with understaffing, burnout, and potentially unsafe nurse-to-patient ratios. These factors directly impact the foundational issue of patient safety culture (32%), wherein nurses may feel less empowered or supported to prioritize safety protocols. Limited resources for learning and timely reporting of safety events (19%) impact the ability to identify and address potential risks. While less prominent, addressing issues surrounding patients' rights (9%), overall evaluation and improvement mechanisms (8%), and fostering stronger teamwork (4%) can bolster patient safety through holistic support across the healthcare delivery system.

4.3.3 Stakeholder's perspective – Hospital admins

Exhibit 30

Factors impacting patient safety – Admins' perspective

Factors affecting patient safety
Safety vs efficiency mindset
Lack of patient safety culture
Inadequate staffing
Lack of patient awareness
Scarce learning and reporting
Lack of teamwork
Limited evaluation and improvement

	Reg	gion		F	lospital si	ze
North	South	East	West	Small	Medium	Large
44%	37%	37%	38%	44%	43%	32%
22%	18%	11%	25%	24%	18%	21%
24%	19%	16%	15%	14%	10%	20%
18%	18%	16%	17%	18%	23%	12%
12%	11%	14%	8%	11%	10%	13%
6%	4%	11%	2%	5%	5%	4%
4%	7%	5%	6%	3%	9%	5%

Low High

Foremost, the pressure to balance **safety with efficiency (39%)** emerges as the biggest challenge, suggesting potential conflicts between necessary safety measures and operational demands. A substantial 20% of administrators highlighted a lack of a robust safety culture, indicating a need for greater emphasis on safety protocols and accountability throughout the hospital system. Inadequate staffing (19%) also proves significant, potentially implying issues with understaffing and overworked personnel, which can indirectly compromise patient care.







4.3.4 Stakeholder's perspective – Hospital doctors

Exhibit 31

Factors impacting patient safety – Hospital doctors' perspective

Factors affecting		Reg	gion		H	Hospital si	ze	% of doctor
patient safety	North	South	East	West	Small	Medium	Large	respondents
Inadequate staffing	12%	19%	25%	67%	20%	34%	15%	21%
Safety vs efficiency mindset	9%	24%	38%	17%	20%	26%	14%	18%
Lack of patient safety culture	11%	20%	25%	17%	23%	14%	14%	15%
Scarce learning and reporting	9%	16%	13%	8%	10%	19%	10%	12%
Lack of patient awareness	11%	6%	38%	8%	10%	14%	8%	10%
Limited evaluation and improvement	4%	6%	13%	4%	3%	11%	4%	7%
Lack of teamwork	5%	15%	0%	0%	10%	11%	7%	6%
				→				

Low High

Exhibit 32

Factors affecting patient safety – Voice of doctors

Factors	Challenge description	Degree of importance	Voice of doctors
Lack of patient safety culture	Lack of robust framework: Lack of safety protocols and reporting systems hinder doctors, risking errors, adverse events, and compromised patient outcomes, impacting care quality		Lack of standardized safety protocols results in inconsistent care practices, heightened risk of errors, and compromised patient safety outcomes - Senior doctor, Large private hospital, Delhi
Inadequate staffing	Increased workload: Required to take on additional responsibilities and care for more patients than they can effectively manage Higher Risk of Errors: Fatigue and stress can impair judgment and decision-making	•	Increased workload from understaffing jeopardizes patient care. Immediate action is needed to ensure quality and patient safety - Senior doctor, Small private hospital, Kolkata



Scarce learning and reporting	Lack of learning: Increases the risk of errors and hindering collaboration. It leads to outdated practices, stagnant skills, and dissatisfaction, compromising patient care and overall effectiveness in the healthcare system		I advocate for comprehensive training modules to bridge the gaps in medical education. Lack of these resources compromises patient care and hinders professional development - Senior doctor, Medium private hospital, Mumbai
Limited evaluation and improvement	Less tracking and less improvement: Less tracking hinders doctors' skill development, risking medical errors and reducing patient care quality	•	With less data at hand, we need to go forward with existing practices giving us no scope of improvement in our own methods. A continuous tracking is essential - Senior doctor, Government hospital, Delhi
Lack of patient awareness	Patient education gap: There's a need for increased patient education on safety protocols, healthcare processes, and standard operating procedures (SOPs)		I am concerned about the consequences of patient unawareness. Limited understanding leads to delayed care - Senior doctor, Government hospital, Delhi

Degree of importance



An assessment of 139 hospital doctors from across India highlights several factors that compromise their ability to ensure optimal patient safety. Inadequate staffing was a major concern, with 21% of doctors citing it as a significant challenge. This indicates potential issues with understaffing and overburdened healthcare professionals. The pressure to balance safety concerns with efficiency (18%) was another key factor, suggesting a tension between upholding strict safety protocols and maintaining a fast-paced workflow. A lack of well-defined patient safety culture (15%) underscores the need for a stronger emphasis on safety practices and accountability. Additionally, challenges related to learning and reporting systems (12%) point to a need for improved knowledge sharing and systems to promptly address potential safety hazards.







4.3.5 Stakeholder's perspective – Other medical staff

Exhibit 33

Factors impacting patient safety - Other medical staff's perspective

Factors affecting		Re	gion		F	lospital si	ze	% of medical
patient safety	North	South	East	West	Small	Medium	Large	staff respondents
Safety vs efficiency mindset	29%	48%	20%	39%	44%	49%	29%	41%
Lack of patient safety culture	25%	25%	50%	22%	44%	27%	17%	27%
Inadequate staffing	12%	26%	13%	35%	17%	23%	27%	23%
Scarce learning and reporting	10%	22%	33%	16%	28%	20%	17%	20%
Lack of patient awareness	12%	12%	0%	9%	6%	9%	17%	11%
Limited evaluation and improvement	3%	4%	3%	4%	3%	5%	3%	7%
Inadequate NABH support	1%	2%	3%	4%	2%	2%	1%	2%
Lack of teamwork	0%	1%	0%	0%	0%	1%	2%	1%
				→				
	low			H	liah			

The most significant issue is the **conflict between safety and efficiency (41%)**, which reveals the pressure healthcare professionals feel to potentially sacrifice safety in favor of speed. A deficient patient safety culture (27%) underscores the need for stronger systems promoting safety-focused practices. 23% of respondents mentioned inadequate staffing cultures that might result in burnout and overwork, underscoring yet again how understaffing directly affects patient care. Limited resources for learning and timely reporting of safety events (20%) suggest a need for enhanced training and systems that facilitate quick identification and mitigation of risks.

4.3.6 Stakeholder's perspective – Hospital management team

Exhibit 34

Factors impacting patient safety - Hospital management team's perspective

Factors affecting		Reg	ion		Hospital size			% of	
patient safety	North	South	East	West	Small	Medium	Large	management respondents	
Safety vs efficiency mindset	40%	31%	41%	37%	43%	38%	38%	37%	
Lack of patient awareness	35%	21%	29%	37%	30%	23%	23%	31%	
Lack of patient safety culture	22%	18%	21%	26%	18%	23%	23%	21%	
Inadequate staffing	10%	13%	18%	22%	13%	15%	15%	14%	
Scarce learning and reporting	6%	13%	8%	12%	11%	8%	8%	9%	
Lack of teamwork	2%	8%	18%	11%	5%	10%	10%	7%	
Limited evaluation and improvement	3%	5%	12%	7%	5%	6%	6%	5%	
				→					
	Low	Low							





Factors affecting patient safety - Voice of management team

Factors	Challenge description	Degree of importance	Voice of management team
Lack of patient safety culture	Uneven standards: Inconsistent application of patient safety standards and awareness across hospitals has created a significant disparity in the quality of care	•	I am worried about the big difference in the quality of care across the levels of healthcare system - Chief of staff, Large private hospital, Delhi
Inadequate staffing	Resource constraints: Limited resources in mid-tier hospitals hinder implementation of basic safety protocols, jeopardizing patient safety		Critical patient safety is compromised by staff shortages, outdated equipment, and limited training. Immediate investments are needed to be addressed for optimal care - Senior nurse, Small private hospital, Kolkata
Safety vs efficiency mindset	Affordability barrier: Providing safe care can be too costly for some patients, leading to accessibility issues. Companies focus on improving efficiency to enhance their profit margins		The main problem is the pricing structure of high-quality care - Chief medical officer, Small private hospital, Mumbai
Scarce learning and reporting	Data collection issues: Despite existing standards (QCI/NABH), data collection challenges persist, likely due to resource limitations or lack of awareness		At the top tier, about half of the NABH hospitals will likely have this data. The other 50% are more on the entry level side. At the national level, it's probably just a tiny fraction - Admin team, Government hospital, Delhi
Lack of patient awareness	Implementation gap: Knowledge of safety protocols is not the primary obstacle; cultural resistance and pricing limitations hinder effective implementation		It's the consumer who's not ready to pay for the high-quality service due to lack of awareness - Chief executive officer, Large private hospital, Bangalore

Degree of importance



The most pressing is the conflict between safety concerns and efficiency (37%), indicating a struggle to balance thoroughness with operational demands. A limited focus on patient rights (31%) suggests a potential need to improve patient-centered communication and uphold patient autonomy in the healthcare process. Additionally, a weak patient safety culture (21%) highlights the importance of building a robust framework where safety is ingrained at all levels of the organization. Concerns over inadequate staffing (14%) point to the need for addressing potential understaffing and ensuring appropriate workload distribution to prevent staff burnout that can impact patient care.





4.3.7 Hospital work area assessment

Exhibit 36

Factors affecting patient safety across various work regions

- · · · · · · · · · · · · · · · · · · ·	Work area							
Factors affecting patient safety	Admin	Medical / surgical	Clinical services	Patient care	Multiple areas	Support services	Others	Overall %
Safety vs efficiency mindset	38%	41%	37%	55%	57%	32%	46%	42%
Inadequate staffing	21%	28%	15%	42%	21%	32%	20%	24%
Lack of patient safety culture	21%	27%	21%	30%	32%	32%	21%	24%
Scarce learning and reporting	10%	17%	15%	24%	20%	18%	16%	15%
Lack of patient awareness	21%	12%	9%	9%	21%	8%	12%	15%
Limited evaluation and improvement	7%	6%	3%	4%	6%	5%	4%	5%
Lack of teamwork	6%	7%	3%	2%	2%	3%	2%	5%



Exhibit 37

Factors affecting patient safety – Voice of diagnostics experts

Factors	Challenge description	Degree of importance	Voice of diagnostics experts
Safety vs efficiency mindset	Cutting corners on protocols: Non-adherence of safety measures in diagnostic procedures like lack of proper cleaning before blood draws and the reuse of needles for multiple patients can increase the infection risk		The practice of skipping proper cleaning procedures before drawing blood to save time can be harmful. It's a shortcut that compromises safety standards and risks patient health HOD Pathology, National lab chain, Delhi
Scarce learning and reporting	Inadequate training and learning systems: Lack of proper training and skill development for staff handling diagnostic procedures, coupled with limited mechanisms for reporting		Inadequate training and learning systems for skill development pose significant challenges leading to errors in diagnosis and inefficiencies in the healthcare system - Pathologist, Standalone lab, Bangalore



Lack of patient awareness	Patient disengagement in safety: Lack of patient awareness and knowledge about proper safety practices in diagnostic procedures, leaves patient disengaged		Lack of patient awareness leads to delayed healthcare-seeking behavior, uninformed decision-making, and poor adherence to follow-up care HOD, Regional lab chain, Mumbai
Lack of patient safety culture	Oversight and negligence: Negligence in adhering to the proper order of draw for blood samples and inadequate endorsement of safety practices		Negligence in proper blood sample collection and safety practices compromises sample integrity, patient safety, diagnostic quality, and regulatory compliance - Senior doctor, Government hospital, Delhi
Limited evaluation and improvement processes	Deficient safety evaluation processes: Lack of continuous monitoring of safety protocols highlighted limited evaluation and improvement processes to assess and strengthen patient safety measures	•	I believe there's a need to closely adhere to guidelines in monitoring and evaluating special needle injuries for enhanced safety - Pathologist, Regional lab chain, Mumbai

Degree of importance



From diagnostics standpoint, inadequately trained staff, coupled with a lack of proper reporting mechanisms for errors, can lead to missed diagnoses or even infections due to improper sterilization procedures. Furthermore, limited patient understanding of safety protocols hinders their ability to participate actively in their care. Additionally, inconsistent adherence to established protocols, such as the correct order for blood draws, and a lack of robust evaluation processes for safety measures, create an environment where gaps remain unaddressed.







4.4 Recommendations

With the identification of areas of improvement for patient safety in India – collaborative environment, leadership, data infrastructure improvement, public awareness, patient awareness, technology advancement, communication, and policy changes – we are structuring our recommendations through these **9 levers** to address the challenges to improve the patient safety and experience in Indian healthcare delivery system.

Exhibit 38

Recommendations - 9 levers to improve patient safety in India

Recommendation	Description	Current level of implementation
Collaborative leadership	Involves shared decision-making, teamwork, and cooperation, promoting collective problem-solving, continuous improvement, and institutionalizing patient safety	
Data infrastructure	Encompasses foundational systems enabling collection, storage, analysis, and secure healthcare data management to enhance patient outcomes	•
Workforce development	Involves training healthcare professionals, integrating patient safety modules into educational programs, and promoting continuous learning	•
Patient empowerment	Involves enabling control over healthcare decisions, treatments, well-being, through education, involvement, and integrating patient feedback mechanisms	•
Information sharing and communication	Involves exchanging data, ideas, and insights to ensure optimal healthcare outcomes and risk mitigation	•
Technology integration	Involves incorporating tools into practices to enhance efficiency, productivity, using EHRs, BCMA, and advanced tech for risk identification	•
Policy reforms	Involves changing policies, structures for efficiency, transparency, accountability, emphasizing patient safety frameworks, reporting systems, and regulation enforcement	•
Public awareness	Entails understanding issues, events, achieved through education, outreach, diverse communication channels, collaboration with NGOs, and integrating patient safety into education	0
Resource allocation	Involves distributing time, money, personnel, materials among tasks, emphasizing safety alerts sharing, performance incentives, and data consistency	•

Level of implementation







4.4.1 Desired state

Exhibit 39

India's current and desired level of patient safety indicators

	Current state	Desired state
Patient harm is minimized and ideally eliminated	 Deaths due to AEMT per 100,000 population – 2.33 DALY due to AEMT per 100,000 person-years – 73.38 Treatable mortality rate – 180 	 Deaths due to AEMT per 100,000 population – downward trend DALY due to AEMT per 100,000 person-years – downward trend Treatable mortality rate – downward trend
Safety is a top priority at all levels	 Maternal rate per 100,000 live births – 103 Neonatal mortality rate per 100,000 live births – 1,912 	 Maternal rate per 100,000 live births – <70 Neonatal mortality rate per 100,000 live births – 0
Effective systems and processes are in place	OverburdenedLacks standardization	Establishment of an effective healthcare system and process
Everyone feels empowered to contribute to safety	Hierarchical barriersLack of empowerment	 Inclusive healthcare environment Open communication and shared responsibility
Continuous learning and improvement are the norm	Inconsistent training and learning	 Integrate robust training modules Focus on the quality and consistency of patient safety protocols
Accessibility and equity are ensured	Disparities in healthcare facilities and resources	Fostering accessibility and equity





4.4.2 Collaborative leadership

In patient safety, collaborative leadership promotes shared responsibility, effective problem-solving, and a collective commitment to continuous improvement, fostering safer care delivery and better outcomes for patients.

Exhibit 40

Best practices across the globe - Collaborative leadership

United States



Problem: Ineffective implementation of known safety solutions across healthcare systems in the US

Solution: National Steering Committee for Patient Safety (NSC) was established with leaders from 27 org, to encourage greater coordination of collective patient safety efforts

United Kingdom



Problem: Health inequalities, unwarranted variations in care, high rate of anti-microbial infections

Solution: Integrated Care Board, comprising of 42 org, aimed to increase early diagnosis rates for cancer, reduce antimicrobial resistant infections, address health inequality gap

Australia



Problem: Inefficiencies in care delivery, limited patient engagement, medical errors and inconsistencies in quality of care

Solution: Australian Commission on Safety and Quality in Health Care, comprises of multiple govt. and private healthcare bodies, aimed to ensure better health outcomes and experiences for all patients

India



Solution for India

Implore healthcare leaders to foster collective action plan and to devise a self assessment tool to uphold patient safety

Investing in developing a healthcare workforce, working closely with local people and communities, using resources wisely Partnering with healthcare providers, devising framework for the commission, developing national safety and quality standards

Potential challenges Limited resources, complex healthcare landscape and cultural barriers

Resource limitations (funding, infrastructure, staff), **scalability** (reaching masses)

Variability in patient safety and healthcare quality

How to overcome

Collaboration with diverse stakeholders, addressing resource gaps, and promoting open communication about patient safety

PPP (to leverage resources and expertise), community – based engagement and pilot projects

Develop **benchmarking programs** through allocation of sufficient resources





Recommendations - Collaborative leadership

Short term (1-2 years)

Shared and collective leadership:

 Establish a National Patient Safety Council with representatives from NABH, NABL, NATHEALTH, healthcare providers, patient advocacy groups, and government bodies

National action plan:

 Assess patient safety issues, engage stakeholders, and map resources such as online toolkits to create a baseline report and action plan for low-cost, high-impact interventions

Mid term (2-5 years)

Community engagement:

 Partner with local communities and NGOs to address cultural barriers, raise awareness, and encourage patient participation in safety initiatives

Resource mobilization:

 Secure public-private partnerships to leverage resources, expertise, and infrastructure for broader program implementation

Long term (5+ years)

National safety and quality standards:

 Develop and implement evidence-based national standards, considering India's context and adapting them over time based on data and feedback

Continuous monitoring and evaluation:

 Regularly monitor progress, analyze data from self-assessment tools, and adapt the plan based on evidence and best practices

Recognition and incentives:

 Recognize facilities achieving sustained excellence in patient safety for 5 consecutive years

Relevant stakeholders

QCI / NABH / NABL:

Collaborate on quality standards and accreditation processes

Healthcare providers:

Implement the plan at the facility level

NATHEALTH:

Represent private healthcare providers and facilitate participation

Patient advocacy groups:

Ensure patient voices are heard and advocate for their safety needs

Government bodies:

Provide funding, policy support, and regulatory oversight

Local communities:

Provide valuable insights and collaborate on culturally sensitive solutions



4.4.3 Data infrastructure

Implementing data infrastructure for patient safety enables systematic collection, analysis, and utilization of healthcare data. It facilitates evidence-based decision-making, and early detection of trends or issues, and enables continuous monitoring to identify areas for improvement, ultimately enhancing patient safety and quality of care.

Exhibit 42

Best practices across the globe - Data infrastructure

United States



Problem: Lack of standardized terminology across **different EHR formats** created a barrier to consistent data use, even though national coding standards were in place

Solution: Improved EHR integration and data sharing have led to better analysis and healthcare outcomes across organizations

Canada



Problem: Standardized data methods were essential to reduce outcome and satisfaction disparities in thoracic surgery

Solution: Seminars that combined standardized data with physician feedback analyzed over 30,000 patient records and generated more than 200 recommendations for improving quality

United States



Problem: Efforts to reduce high rates of Central Line-Associated Blood Stream Infections (CLABSI) have highlighted the importance of systematic data collection and sharing to improve patient outcomes

Solution: Standardized hospital practices reduced CLABSIs by **28%** over **24** months, **improving care quality**

India



Solution for India Assessing EHRs for coding standards, collaborate with vendors, and conduct regular compliance checks

Unifying data framework with standardized coding and centralized tracking improves **patient outcome** analysis

Healthcare collaboration creates harm prevention bundles, with regular monitoring to improve patient outcomes

Potential challenges

T2+ cities face limited resources, data infrastructure, awareness, and system compatibility challenges

Data consistency across healthcare facilities is hindered by **technology adoption resistance** **Limited funding** restricts the implementation of evidence-based practices and training

How to overcome

Allocating adequate funding and resources for training and infrastructure

Standardizing data protocols, train staff, and demonstrate benefits to promote quality data

Training healthcare staff, implement data validation protocols, and for data quality **conduct regular audits**





Recommendations - Data infrastructure

Short term (1-2 years)

Evaluate existing EHR systems:

 NATHEALTH can collaborate with QCI / NABH / NABL to develop a national framework for assessing EHR system compatibility with coding standards

Pilot program in T2+ cities:

 The government can partner with healthcare providers in tier 2+ cities to implement a unified data collection framework aligned with national standards. This pilot can inform larger-scale rollouts

Mid term (2-5 years)

Standardization and interoperability:

 Collaborate with healthcare IT vendors to establish standardized data exchange formats and ensure seamless integration with existing systems

Centralized data repository:

 Develop a secure, centralized system for collecting and analyzing patient safety data across participating institutions. This could be facilitated by NATHEALTH in collaboration with government agencies

Long term (5+ years)

National safety and quality standards:

 Develop and implement evidence-based national standards, considering India's context and adapting them over time based on data and feedback

Continuous monitoring and evaluation:

 Regularly monitor progress, analyze data from self-assessment tools, and adapt the plan based on evidence and best practices

Recognition and incentives:

 Recognize facilities achieving sustained excellence in patient safety for 5 consecutive years

Relevant stakeholders

Government: Partner for pilot, secure funding, develop data repository, support capacity building

QCI / NABH / NABL:

Regulatory oversight, framework development and evaluation of pilot data collection programs **NATHEALTH:** Develop assessment framework along with QCI / NABH / NABL, pilot program liaison, industry advocate for funding, collaborate with government agencies for data repository creation

Healthcare professionals: Actively participate in data collection, utilize data collection tools, report incidents, and implement harm prevention strategies

IT vendors: Develop and maintain interoperable EHR systems meeting national standards



4.4.4 Workforce development

Workforce development in patient safety ensures healthcare professionals have the necessary skills, knowledge, and resources to deliver high-quality care. It enhances competency, promotes adherence to best practices, and empowers staff to identify and mitigate risks, ultimately improving patient outcomes and reducing adverse events.

Exhibit 44

Best practices across the globe - Workforce development

United States



Problem: Poor communication and teamwork within healthcare settings led to errors and patient harm

Outcome: Effective communication streamlines care delivery, improved patient outcomes, and reduced errors

Australia



Problem: Better communication and addressing disclosure hesitancy after errors were lagging

Outcome: Transparent disclosure practices protected patient rights, promoted trust, and decreased liability concerns

United Kingdom



Problem: Healthcare suffered from poor communication across departments and limited opportunities for frontline staff input

Outcome: Empowering frontline staff to voice concerns has fostered collaborative teamwork and has enhanced overall safety



Solution for India

Identify team challenges, customize training, provide convenient video simulations for professionals to meet organizational needs

Customize training materials with diverse teaching methods like lectures, role-playing, simulations, and case discussions

Engage senior management and frontline staff, identify risks, conduct site visits, develop action plans with feedback

Potential challenges

Tailoring training to overcome cultural/ linguistic barriers and addressing skepticism about relevance

Addressing cultural resistance to disclosure and overcome

resource limitations (funding, infrastructure, staff)

Limited resources hinder regular safety walkrounds and obtaining active frontline staff participation

How to overcome

Promoting cultural sensitivity through training and seek funding for digital infrastructure development

Offering confidential reporting, address reputation concerns, and upgrade technology for better accessibility

Securing leadership support, gain staff buy-in, and create an open culture for addressing concerns





Recommendations - Workforce development

Short term (1-2 years)

Leverage existing resources:

 Utilize existing patient groups and hospital and lab suggestion boxes to gather insights and concerns

Targeted campaigns:

 Conduct themed awareness days focusing on high-impact topics like medication safety and fall prevention, involving patient partners to share their experiences

Collaboration:

 Partner with NGOs and medical colleges to integrate basic patient safety modules into existing educational programs

Mid term (2-5 years)

Patient story galleries:

 Encourage creation of patient-driven online platforms showcasing real experiences through text, videos, or pictures

Technology-enabled solutions:

 Develop mobile apps or websites providing patient safety information and resources, considering accessibility for diverse caregivers

Multi-stakeholder engagement:

 Establish committees with representatives from hospitals, patient groups, and government agencies to facilitate policy changes and resource allocation

Long term (5+ years)

Advocate for systemic changes:

 Push for mandatory patient safety training for healthcare professionals and standardized patient safety protocols across healthcare institutions

Cultural shift:

 Promote collaborative decision-making in healthcare through patient education and awareness campaigns

Relevant stakeholders

Hospitals and healthcare providers: Implement patient safety initiatives, participate in public awareness campaigns, and support educational programs

Government agencies: Allocate resources for patient safety initiatives, create policy frameworks that prioritize safety, and support educational programs

Patient groups and NGOs: Advocating for patient safety by raising awareness, sharing patient experiences, and collaborating with healthcare institutions to improve safety practices

QCI / NABH / NABL and NATHEALTH: Provide accreditation standards that emphasize patient safety, offer training programs for healthcare professionals, and act as catalysts to foster partnerships between all stakeholders



4.4.5 Patient empowerment

Patient empowerment in patient safety fosters active involvement, communication, and shared decision-making between patients and HCPs. It enhances patient understanding, encourages reporting of concerns, and promotes adherence to treatment plans, leading to safer care practices and improved health outcomes.

Exhibit 46

Best practices across the globe - Patient empowerment

United States



Problem: Limited patient representation in decision-making & policy development, and insufficient adoption of patientcentered care principles

Solution: Promoted a culture of patient & family centered care (PFCC) within an organization and built quality improvement initiatives

United States



Problem: Under reported medical errors & adverse events due to lack of awareness, fear of repercussions, and no confidentiality assurances

Solution: Empowered patients & families with a confidential avenue for voicing their concerns, and promptly identify & address safety issues

United States



Problem: Lack of uniform standards for measuring & comparing patient satisfaction and limited transparency on quality of care provided by hospitals, hindering informed decision-making

Solution: Provided publicly accessible data for comparing hospitals on quality of care, and enhanced patient satisfaction & care quality

India



Solution for India

Onboarding diverse patients & healthcare professionals, and providing member orientations along with incorporating feedback

Establishing necessary
infrastructure & policies for hotline
operations and providing
comprehensive training to staff
members

Submitting survey data to authorities, reviewing results & creating targeted improvement plans

Potential challenges

Limited financial & human resources for supporting PFAC activities, and onboarding & retaining committed council members

Reluctance amongst patients due to fear of retribution, privacy concerns and difficulty in integration with existing IT systems

Varied levels of digital literacy affecting survey response quality, ensuring data privacy and inadequate IT infrastructure

How to overcome

Seeking partnerships & grants, leveraging digital platforms for cost reduction and outreach & awareness programs

Assuring anonymity & confidentiality, leveraging existing infrastructure & developing scalable, low-cost solutions

Adopting digital & paper-based surveys as per hospital capabilities & patient preferences and ensuring patient anonymity





Recommendations - Patient empowerment

Short term (1-2 years)

Strengthen existing PFACs:

 Strengthening the foundation of established PFACs by developing a flexible framework

Onboarding and orientation:

- Implement targeted outreach strategies to onboard diverse new members into existing PFAC
- Conduct orientation sessions to familiarize new members with PFAC roles, responsibilities, and communication channels

Facilitation and communication:

 Appoint a facilitator to ensure smooth PFAC operation and establish regular communication channels

Education for patients:

 Educate the patients on proper hygiene practices during sample collection and waste disposal

Mid term (2-5 years)

Enhance PFAC operations:

- Provide comprehensive training for council members on patient safety principles, communications
- Implement hotline infrastructure with trained staff to address patient concerns and inquiries

Standardize feedback

- Develop standardized formats for collecting and submitting patient survey data to relevant authorities
- Analyze results to identify areas for improvement and create targeted plans based on patient feedback

Long term (5+ years)

Technology integration:

 Invest in IT infrastructure to seamlessly integrate PFAC activities with existing hospital systems, enabling efficient response and follow-up to patient feedback

Communication channels:

 Explore communication channels besides online surveys, considering varied digital literacy levels, and prioritizing data security and privacy protocols to build trust and encourage participation

Relevant stakeholders

Government agencies: Fund, guide framework development, collaborate on training, invest in IT infrastructure and research for patient safety

NGOs & Civil Society
Organizations (CSOs): Assist in
reaching underserved populations,
offer specialized training, and
collaborate on research

Healthcare Providers (HCP):

Strengthen PFACs, dedicate resources, and advocate for technology integration to improve patient safety

QCI / NABH and NATHEALTH:

Collaborate on developing standards and conducting assessments for PFAC effectiveness to ensure patient safety Patient Advocacy Groups

(PAG): Develop outreach strategies, train patient representatives, and partner on public awareness campaigns

QCI / NABL and NATHEALTH:

Promote education on proper hygiene practices and advocate for continuous improvement through training programs





4.4.6 Information sharing and communication

Effective information sharing and communication are essential for patient safety to ensure the accurate transfer of vital data between healthcare professionals, reduce errors, prevent misunderstandings, and promote coordinated care, ultimately enhancing patient outcomes.

Exhibit 48

Best practices across the globe - Information sharing and communication



Problem: A need for standardized assessments across care and challenges in transferring clinical information between care settings

Solution: Creation of a suite of integrated assessment instruments (SCIP) for various care settings, and improved efficiency in assessments, & comparing case complexity across settings





Problem: Lack of a centralized system for tracking healthcare-associated infections (HAIs) across different healthcare facilities and inadequate data sharing mechanisms

Solution: Standardized infection tracking & reporting across various healthcare settings and enhanced ability to identify trends, implement preventive measures, & reduce HAIs

United Kingdom



Problem: Inefficiencies in healthcare delivery due to fragmented data and difficulty in tracking patient outcomes & healthcare trends

Solution: Improved healthcare planning, resource allocation and enhanced understanding of disease patterns & patient outcomes

India



Solution for India

Training healthcare professionals in Integrated Care Assessment & Planning and implementing standardized data sets

Defining the data to be collected, choosing a **reliable platform**, & providing **training** to healthcare staff on data input

Developing user-friendly data extraction tool and conducting regular meetings to discuss data usage policies & concerns

Potential challenges

Adaptation of instruments to local cultural & healthcare system nuances and ensuring widespread implementation & training

Diverse infrastructure with varying levels of technology adoption, data privacy concerns & lack of standardized reporting protocols

Resistance from healthcare providers & patients due to privacy concerns and lack of interoperability between different systems

How to overcome

Rigorous training for assessors to ensure reliability of assessments and continuous revision of instruments Ensuring robust data security measures to protect information and providing support to healthcare facilities to adopt the system

Implementing strict data governance protocols and conduct pilot projects to demonstrate the benefits & address concerns





Recommendations – Information sharing and communication

Short term (1-2 years)

Training:

- Implement training programs in Integrated Care Assessment and Planning for healthcare professionals, using cultureadapted learning guides
- Training focused on staff proficiency in handling procedures and protocols to minimize errors, particularly during the pre-analytical phase of diagnostics

Standardized data:

 Develop and pilot standardized data sets with decision-making tools and care planning strategies for clinical assessments, focusing on high-priority patient safety areas

Governing body:

 Establish a focused patient safety governing body to define the data collection and analysis framework

Stakeholder engagement:

 Regularly conduct meetings and workshops with key stakeholders to address concerns, fostering transparency and collaboration

Mid term (2-5 years)

Technology adoption:

 Choose a secure and user-friendly platform and train healthcare staff on data input and system utilization

Data extraction tool:

 Develop and deploy a standardized data extraction tool for seamless data sharing, considering local infrastructure limitations

Addressing concerns:

 Collaborate with QCI/NABH and NATHEALTH to develop educational materials addressing data privacy concerns and promoting standardized reporting protocols for hospitals

Long term (5+ years)

Interoperability

 Work towards interoperability between healthcare information systems, facilitating information exchange across diverse settings

Scaling up:

 Based on successful pilots, scale up standardized data collection and analysis across the country, continuously evaluating and refining the system

Relevant stakeholders

Government: Establish policies supporting integrated care assessment and planning training

QCI / NABH and NATHEALTH: Provide expertise in crafting culture-adapted learning guides, contribute to developing standardized data sets, and develop and integrate communication standards into accreditation criteria to incentivize hospitals for improvement

Healthcare Professionals: Engage inter-department professionals in regular meetings to discuss concerns regarding patient safety for transparency and better planning

QCI / NABL and NATHEALTH: Targeted training programs for diagnostic staff to enhance proficiency in procedure handling, setting up plan for showcasing disposable syringes, and explaining waste disposal procedures to patients



4.4.7 Technology integration

Technology integration in patient safety is crucial to streamline processes, enhance efficiency, reduce errors, and improve communication among HCPs. It enables real-time access to patient data, decision support systems, and monitoring tools, ultimately contributing to better clinical outcomes and overall quality of care.

Exhibit 50

Best practices across the globe - Technology integration

United Kingdom



Problem: Medication errors and risk of fraud due to due to paper prescriptions and lack of communication between healthcare providers and pharmacies

Solution: Reduced medication errors, adverse drug events, enhanced prescription security, and improved coordination via integration with EHRs

United States



Problem: Human errors due to manual processes, missed or duplicated doses, and time consumption in verification and checks

Solution: Reduced human errors by scanning barcodes for medication and patient identification, prevention of missed and duplicate doses, and created a clear audit trail

United Kingdom



Problem: Fragmented reporting and underused safety data **hinder understanding and collaboration** on patient safety in the NHS

Solution: Centralized system reduced adverse events, enabled quick best practice sharing, and informed decisions with data insights

India



Solution for India

Providing stakeholder training on EPS software, integrating with existing EHR systems and gradual implementation **Evaluating** BCMA software compatibility, training the staff on **barcode scanning** protocols and piloting BCMA

Implementing standardized reporting and professional training and analyzing data to target interventions for high-risk safety areas

Potential challenges

Limited access to EHR systems, compatibility issues and resistance from healthcare providers and pharmacies for transitioning

Limited financial resources, uneven IT infrastructure in hospitals, and lack of standardized medication barcode systems Integrating diverse health systems requires extensive effort, terminology unification, and comprehensive staff training

How to overcome

Implementing strict
confidentiality and regular
audits, and conducting
thorough testing, and
ongoing technical support

Conducting thorough user training and phased implementation along with quality control checks with error reporting mechanism

Developing integration plan with interoperability standards, and working with facilities for standard terminologies





Recommendations - Technology integration

Short term (1-2 years)

Comprehensive training:

 Implement comprehensive training programs on EPS and associated workflows for all stakeholders, addressing compatibility issues and ensuring a smooth transition

Pilot testing and gradual implementation:

 Conduct pilot testing of EPS and BCMA software in select facilities, gradually scaling up implementation across hospitals and pharmacies

Mid term (2-5 years)

Standardization and integration:

 Foster standardization of medication barcodes and drug packaging, along with terminologies and reporting protocols across public and private facilities

BCMA implementation and monitoring:

 Deploy BCMA across the healthcare ecosystem, monitoring usage and performance to identify areas for improvement

Data-driven safety interventions:

 Analyze data from healthcare institutions to identify recurring safety patterns and high-risk areas, developing targeted safety interventions based on these insights

Long term (5+ years)

Advanced integration:

 Explore and integrate advanced technologies like artificial intelligence and machine learning for real-time risk identification and prediction

Relevant stakeholders

Government agencies: Fund, standardize, and facilitate collaboration for training, pilot testing, and implementation **Healthcare Providers (HCP):** Participate in training, pilot programs, and implementation, ensuring smooth integration and data collection for patient safety initiatives

Patient Advocacy Groups

(PAG): Advocate for patient safety, educate patients, and monitor the effectiveness of implemented safety measures

NGOs & Civil Society
Organizations (CSOs): Support
vulnerable populations, raise public
awareness, and contribute to research
in this tech-based patient safety area

QCI / NABH / NABL and NATHEALTH: Collaborate on developing standards, conducting assessments, and evaluating the effectiveness of implemented safety measures



4.4.8 Policy reforms

Implementing policy reforms in patient safety enhances regulatory standards, healthcare policies, and oversight mechanisms. It strengthens accountability, promotes transparency, and ensures alignment with evidence-based practices, ultimately safeguarding patient rights and improving overall healthcare quality and safety.

Exhibit 52

Best practices across the globe - Policy reforms

United Kingdom



Problem: Lack of standardized protocols impedes the timely identification of patients at risk of falling, posing significant challenges to patient safety

Solution: Improved patient outcomes, increased staff awareness, and fostered a safer environment for patient care

United Kingdom



Problem: Prevalence of medical errors & incorrect diagnoses is exacerbated by patient misidentification and the risk of compromising patients' data confidentiality

Solution: Common framework for accurately identifying patients to minimize miscommunication & errors, fostering trust and confidence in the healthcare system

United States



Problem: Extended healthcare stays and diversion of resources to treat preventable pressure ulcers occur due to lapses in patient care

Solution: Timely interventions and treatment for patients at risk of pressure ulcers improves the overall patient experience

India



Solution for India

Monitoring & reviewing audit results, analyzing trends in fall incidents, and disseminating learning to enhance patient safety

Streamlining a protocol to identify patients & record accurate information & incorporating patient identification policies into training

Developing a comprehensive plan of care, maintenance, & identification of risk factors compromising skin integrity

Potential challenges

Resource constraints, financial limitations, and insufficient staffing Complexities in implementing a uniform patient policy and limitations in technological infrastructure

Variations in the level of education among healthcare staff and insufficient funding, staffing, and resource allocation

How to overcome

Encouraging open
dialogue & collaboration
among healthcare
professionals while providing
training on accurate data
recording

Seeking partnerships to secure funding, while gradually introducing & scaling up technology solutions based on existing infrastructure Utilizing in-person & digital training methods to cater to a diverse workforce, & collaborating with organizations to pool resources





Recommendations - Policy reforms

Short term (1-2 years)

Develop and implement a national framework:

 This framework should establish common goals, standards, and expectations for patient safety across all healthcare settings

Establish a national patient safety reporting system:

 This would allow healthcare providers to report patient safety incidents and near misses, which would help to identify trends and areas for improvement

Launch public awareness campaigns:

 These would help educate patients and their families about their rights and responsibilities

Mid term (2-5 years)

Integrate patient safety into the curricula of healthcare professionals:

 This would ensure that all healthcare providers have the knowledge and skills they need to provide safe care

Develop and implement evidence-based patient safety practices:

 These practices would be based on the best available research on how to prevent patient harm

Strengthen enforcement of patient safety regulations:

 This would help to ensure that healthcare providers are complying with the national framework for patient safety

Accreditation through tiered system:

 Accreditation for all labs, potentially through a tiered system (local, state, national) and training the other bodies for accreditation

Long term (5+ years)

Research on patient safety at the national level:

 It would help to identify new ways to prevent patient harm and improve the quality of care

Develop and implement new technologies:

 These technologies could include EHR, which can help improve medication safety and communication among healthcare providers

Create a culture of patient safety in healthcare organizations:

 This culture would emphasize the importance of patient safety and encourage all staff members to report safety concerns

Relevant stakeholders

Government agencies: Develop a national framework, establish a reporting system, fund research, launch public awareness campaigns, and strengthen enforcement through policies and regulations

Healthcare Providers (HCP):

Participate in framework development, implement safety, report incidents, and integrate patient safety into training curricula

Patient Advocacy Groups (PAG):

Advocate for a patient-centered framework, educate patients on safety rights, monitor implementation, and collaborate on research and public awareness campaigns

QCI / NABH and NATHEALTH:

Collaborate on developing safety standards, conduct assessments of healthcare facilities, evaluate the effectiveness of implemented safety measures, and promote best practices QCI / NABL and NATHEALTH: Push for accreditation for all diagnostic labs, possibly through creation of a tiered system and ensuring standards through training of other accreditation bodies



4.4.9 Public awareness

Implementing public awareness of patient safety educates individuals about healthcare risks, rights, and resources. It encourages informed decision-making, promotes patient advocacy, and fosters community engagement in healthcare quality improvement efforts, ultimately leading to safer care delivery and better patient outcomes.

Exhibit 54

Best practices across the globe – Public awareness

United States



Problem: Inadequate communication channels and a lack of emphasis on shared decision-making between healthcare providers & patients

Solution: Patients asking pertinent questions & educating themselves about their medical conditions, treatment options, & potential risks

United Kingdom



Problem: Inconsistent integration of patient safety modules into healthcare training programs & inadequate dissemination of information to patients

Solution: Important discussions & inspired action by individuals on how to actively contribute to their own safety during medical interventions

United States



Problem: Widespread prevalence of adverse events stemming from unsafe care, compounded by the lack of awareness among patients regarding their rights

Solution: Patients educated about their rights and encouraged to take a more proactive role in their care through safety display and posters

India



Solution for India

Engaging underrepresented patient partners to collaboratively create patient story galleries, highlighting their healthcare journeys

Conducting themed awareness days showcasing organizational efforts to ensure patient safety Planning a safety display featuring patient incident posters & providing a suggestion box for improving hospital safety

Potential challenges

Limited financial resources and high patient volumes & workload

Campaigns not prioritized amidst other pressing healthcare challenges, & limited incorporation of patient safety modules

Limited technology infrastructure and historical reliance on healthcare providers for decision-making

How to overcome

Establishing public-private collaborations to pool resources, while encouraging senior staff to actively involve junior staff

Improving workflow management and optimizing staffing levels to allocate dedicated time and resources

Innovative & cost-effective technology solutions to overcome infrastructure issues and advocating for policy changes





Recommendations - Public awareness

Short term (1-2 years)

Focus on local, low-cost initiatives:

- Utilize existing infra., like waiting areas for patient story galleries and safety displays
- Partner with medical colleges for themed awareness days, leveraging their resources and student reach
- Public awareness campaigns, utilizing circulars and advertisements, to educate a broader audience, especially in smaller communities

Engage diverse patient populations:

 Collaborate with NGOs serving underrepresented communities to include their perspectives and experiences in awareness campaigns

Leverage technology strategically

 Utilize cost-effective solutions like social media and SMS campaigns to overcome limited internet reach in rural areas

Mid term (2-5 years)

Develop national patient safety campaigns:

NATHEALTH can partner with QCI
 / NABH / NABL and other
 stakeholders to create
 large-scale campaigns

Advocate for integration of patient safety modules:

 Collaborate with medical education bodies to incorporate patient safety into curriculums, fostering a future generation of safety-conscious healthcare providers

Pilot innovative solutions:

 Explore tech-enabled platforms to educate patients and families about their rights and roles in ensuring safety

Long term (5+ years)

Establish a national patient safety resource center:

 This center could act as a repository of best practices, research findings, and educational materials for patients, providers, and policymakers

Promote cultural shift towards shared decision-making:

 Collaborate with community leaders and healthcare professionals to address cultural factors and empower patients to participate actively in their healthcare decisions

Relevant stakeholders

Government agencies:

Provide financial and policy support to bolster patient safety initiatives

PAGs and NGOs: Offer community outreach and patient perspectives to inform patient safety practices

Healthcare professional associations and medical colleges: Integrate patient safety into education and training to cultivate a safety-focused workforce

Accreditation bodies (QCI / NABH / NABL):

Set patient safety standards and provide accreditation pathways to drive safety improvements and launching public awareness campaigns

NATHEALTH: Facilitate collaboration among healthcare institutions and leverage industry expertise to accelerate patient safety advancements



4.4.10 Resource allocation

Limited resources can compromise patient care. Resource allocation ensures fair distribution and prioritizes critical needs, minimizing risks and harm

Exhibit 56

Best practices across the globe - Resource allocation

United Kingdom



Problem: Fragmented safety alerts & protocols in healthcare leads to inconsistent awareness & implementation of safety measures across different settings

Solution: Improved patient safety through timely dissemination of safety alerts to healthcare providers, enhancing awareness & adoption of safety measures

United States



Problem: Need to incentivizing quality care and reducing healthcare costs by transitioning from a fee-for-service to a value and quality-based model

Solution: 420+ Accountable Care Organizations (ACOs) served nearly 11 million Medicare beneficiaries, saving Medicare approximately US\$1.8B in 2022

Australia



Problem: Limited transparency & accessibility of hospital performance data pose challenges for patients & policymakers in making informed healthcare decisions

Solution: MyHospitals platform offers detailed hospital performance data, improving accountability & assisting patients in making informed choices

India



Solution for India

Developing a centralized digital platform for issuing & tracking safety alerts & conducting regular training sessions

Establishing a **collaborative healthcare provider network** and implement performance-based incentives

Developing an interactive online platform with updated data for patients to compare hospital performance metrics

Potential challenges

Fragmented healthcare system with limited mechanisms for monitoring and reporting adverse events and safety issues

Lack of integrated patient care models while ensuring accountability & quality standards in a diverse healthcare landscape Inconsistent data standards among hospitals and limited digital infrastructure in some regions

How to overcome

Strengthening regulatory oversight and accountability mechanisms for patient safety

Developing pilot programs to assess feasibility & impact of ACO-like models in India, **ensuring accountability** in healthcare delivery Standardizing data collection & reporting protocols for hospitals while investing in digital infrastructure





Recommendations - Resource allocation

Short term (1-2 years)

Centralized platform:

 Develop a centralized digital platform for issuing and tracking safety alerts, ensuring accessibility for diverse healthcare providers across the country

Training and collaboration:

 Conduct regular training sessions on alert response and establish a collaborative network for sharing best practices and resources, leveraging existing professional associations and networks

Mid term (2-5 years)

Performance-based incentives:

 Implement performance-based incentives to encourage quality and cost-efficiency, aligned with established patient safety metrics

Transparency and accountability:

 Create an interactive online platform for patients to view and compare hospital performance metrics, promoting transparency and accountability

Long term (5+ years)

Data integration and infrastructure:

 Address data collection and reporting inconsistencies through standardized protocols and collaborate with government agencies and private stakeholders to improve digital infrastructure in underserved regions

Relevant stakeholders

Government agencies: Fund development, collaborate on data sharing, and provide resources for infrastructure improvement for a central patient safety platform

HCP: Participate in the development of training sessions and collaborative networks and utilize the platform for issuing and responding to patient safety alerts

PAG: Advocate for patient-centered platform design, educate patients on access and utilization, and monitor platform effectiveness

QCI / NABH / NABL and NATHEALTH: Collaborate on developing central digitized platform standards, conduct platform-related assessments, and promote best practices in alert response and utilization



Summary of the recommendations

Exhibit 58

Recommendations - Summary

Short term (1-2 years)

Collaborative leadership:

- Establish a National Patient Safety Council with members from different stakeholders
- National Action Plan by assessing patient safety issues and engaging stakeholders

Data infrastructure:

- Evaluate existing EHR systems
- Pilot programs in T2+ cities for unified data collection framework

Workforce development:

- Leverage existing resources to gather insights
- Targeted campaigns based on specific theme like patient fall

Patient empowerment:

- Strengthen existing PFACs
- Training patients on essential skills like medication management, self monitoring
- Education for patients on hygiene practices

Information sharing and communication:

- Develop and pilot standardized datasets
- Focused patient safety governing body for creating data analysis framework
- Training for staff for procedure handling and integrated care

Technology integration:

- Comprehensive training on Electronic Prescribing Software (EPS)
- Pilot testing and gradual implementation of EPS and BCMA

Policy reform:

- Implementation of framework for patient safety
- Establish a patient safety reporting system

Public awareness:

- Focus on local, low-cost initiatives for awareness
- Engage diverse patient populations through NGOs

Resource allocation:

 Centralized platform for tracking safety alerts, training, and collaboration network development for sharing best practices

Mid term (2-5 years)

Collaborative leadership:

- Community engagement to address cultural barriers and raise awareness
- Resource mobilization through public-private partnerships to leverage resource and expertise

Data infrastructure:

- Standardization and interoperability
- Develop a centralized data repository

Workforce development:

- Develop mobile apps to provide patient safety information and resources
- Multi-stakeholder engagement through committee establishment

Patient empowerment:

- Enhance PFAC operations through training and increased resource allocation
- Standardize feedback mechanisms for patient survey data

Information sharing and communication:

- Platform creation to train staff on data handling
- Create data extraction tool for data sharing

Technology integration:

- Standardization and integration
- BCMA implementation and monitoring

Policy reform:

- Develop & implement evidencebased practices in curricula
- Strengthen enforcement of patient safety regulations
- Accreditation through tiered system

Public awareness:

- Develop national patient safety campaigns
- Advocate for integration of patient safety modules in curriculum

Resource allocation:

- Performance-based incentives for hospitals
- Transparency and accountability for hospital-level patient safety metrics

Long term (5+ years)

Collaborative leadership:

- National safety and quality standards
- Continuous monitoring and evaluation
- Recognition and incentives for facilities that demonstrate good patient safety systems

Data infrastructure:

- Nationwide implementation of unified data collection framework
- Advanced analytics techniques for predicting and reducing medication error

Workforce development:

- Advocate for systemic changes in training
- Promote cultural shift in decision making in healthcare through collaboration

Patient empowerment:

- Invest in IT infrastructure to seamlessly integrate PFAC activities
- Alternative channels for communicating patient safety rights, best practices

Information sharing and communication:

- Interoperability across information systems
- Scaling up standardized data collection and analysis across country

Technology integration:

 Advanced integration of technologies such as AI in the software

Policy reform:

- Conduct research on patient safety at national level
- Develop and implement new technologies like Electronic Health Record

Public awareness:

- Establish a national patient safety resource center
- Promote cultural shift towards shared decision-making

Resource allocation:

 Data integration and infrastructure through standardized protocols



CONCLUSION



5 CONCLUSION

While India saw a negligible decrease in patient safety incidents from 2010 to 2019, the rate remains higher than in comparable countries, highlighting the need for improved reporting, safety measures, and focus on the most vulnerable populations. While India has made strides through initiatives like NABH, NABL, and NQAS, challenges remain. Some of these include:

Staffing issues: Pressure to balance safety and efficiency, inadequate staffing cultures, and limited resources

Communication gaps: Between HCPs and patients, hindering information sharing and error prevention

Weak safety culture: Lack of emphasis on safety protocols and accountability across all levels

Lack of patient empowerment: Lack of essential knowledge about their rights, medication safety, and infection control practices

Resource constraints: Inadequate financial resources and a shortage of qualified healthcare professionals make it difficult to improve patient safety levels in India

To address these, a **nine-pronged** approach is proposed:



With the recommendations mentioned above, India stands poised to make significant strides towards achieving the desired state for patient safety, i.e. minimize and ideally eliminate patient harm, with safety as a top priority at all levels. This desired state also includes significantly reducing AEMT rates, treatable deaths, and DALY, striving for WHO targets in maternal and neonatal mortality, implementing effective healthcare systems and processes, fostering an inclusive healthcare environment with shared responsibility, promoting continuous learning and improvement, and ensuring accessibility and equity in patient safety practices across the nation.



Core Activities of NABH

Accredits and certifies hospitals, healthcare providers, blood banks, & allied institutions, and, educates and trains for quality and patient safety in provision of healthcare.

Accreditation

- Hospitals, AYUSH hospitals, dental
- Small healthcare organizations (SHCOs), clinics, centers
- Medical Imaging Services
- Eye Care Organizations
- PHC
- Blood banks
- Panchkarma clinics
- Clinical trials accreditation program (Ethics Committee)
- NABH International

New Programmes

- Digital health
- Care homes
- Stroke care centers
- Dental clinics

Certification

- Entry level standards (Hospitals, SHCOs, AYUSH hospitals & centers)
- Medical laboratory
- Emergency department
- Nursing excellence

Empanelment

- CGHS Empanelment
- ECHS Empanelment
- MVTF Empanelment

Projects

- Certification of AHWCs and integrated hospitals under NAM
- Inspection of homeopathy colleges
- Smile train centers
- Third party assessments of FOGSI partner hospitals

....and much more

16,300+ Accreditations & Certifications



4300+ Empanelment

WAY FORWARD

Scaling up quality in 1,00,000+ healthcare organizations and other medical establishments.

NABH programs data as on 15th March, 2024

ACCREDITATION

S. No.	Accreditation Program name	Total no. of accreditations
1	Hospitals	1327
2	Small Healthcare Organizations (SHCO)	943
3	Blood bank	154
4	Medical Imaging Services (MIS)	234
5	Dental healthcare service providers	372
6	Allopathic clinics	84
7	AYUSH	230
8	Panchakarma	90
9	Clinical trials (Ethics Committee)	191
10	Eye Care Organizations (ECO)	477
11	NABH – International	13



4,115 Accreditations

12,217
Certifications

4,322 Empanelment

20,654

Total
Organizations

CERTIFICATION

S. No.	Certification Program name	Total no. of certifications
1	Entry level hospitals	2484
2	Entry level SHCO	9130
3	Nursing excellence	230
4	Entry level SHCO	9130
5	Medical laboratory program	236
6	Emergency department	58
7	Entry level AYUSH (hospital & center)	79

EMPANELMENT

S. No.	Empanelment Program name	Total no. of recommended
1	ECHS Empanelment	2091
2	CGHS Empanelment	2194
3	MVTF Empanelment	37





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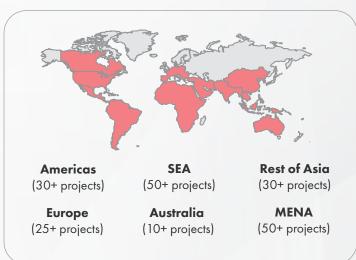
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Anjan Bose

Practice Leader and Advisor – Healthcare

Founder and Secretary General, NATHEALTH



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THANK YOU







