# **Quality Improvement Highlight:**

# METAS Adventist Hospital-Surat (India)

Dr. Anil Kumar Chillimuntha



Embrace Change: Building today's leaders

Friday, October 19, 2018

(Formerly Mission Hospital)

For my thoughts are not your thoughts, neither are your ways my ways, declares the Lord. As the heavens are higher than the earth, so are my ways higher than your ways and my thoughts than your thoughts".—

Isaiah 55:8–9

"But select capable men from all the people—men who fear God, trustworthy men who hate dishonest gain—and appoint them as officials over thousands, hundreds, fifties and tens".—Exodus 18:21

Inspired from Great Leaders in Bible:-

Moses, Joshua, King David, Queen Esther



# GLOBAL HEALTHCARE CONFERENCE



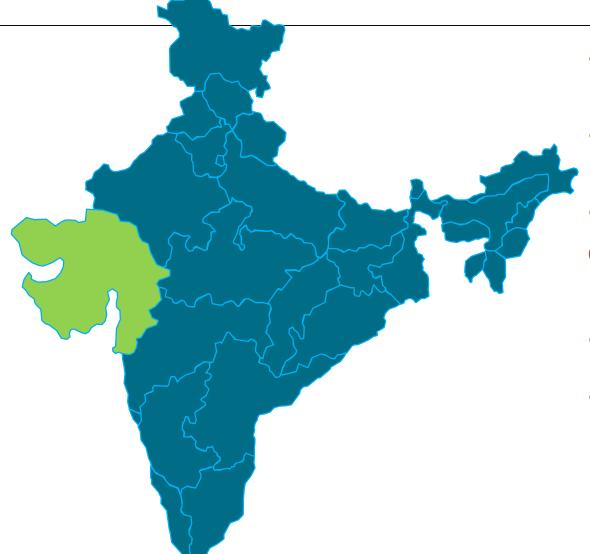
# METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)







(Formerly Mission Hospital)



•Metas Adventist Hospital – 300 Beds

•Established in 1920 (98 Years).

•Territory: Southern Asia Division of Seventhday Adventists.

Located in Surat, Gujarat, India.

•Western India - 3 hrs from Mumbai







1920- Pr. O.W Lange Opened a Dispensary in Udhana 1936- Small Clinic at Station Road



1940- Clinic Moved to Timaliyawad
1941-Hospital with 20 beds was opened





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1965- Bed strength increased to 120



1978-School of Nursing & College of Physiotherapy





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2008- Bed strength increased to 250

2010- Bed strength increased to 275





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**METAS ADVENTIST HOSPITAL - WITH 300 BED CAPACITY** 





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Initial state of Hospital-1920



Current state of Hospital-2018



# **Building Today's Young Leaders**



### **METAS ADVENTIST HOSPITAL**

(Formerly Mission Hospital)

# **Journey: Childhood**

- **▶** Drought **–** 1975
- **► Latur Earthquake 1993**
- ➤ Plague 1994
- **▶** Communicable Diseases :
- Scabies 1980
- Conjunctivitis 1983
- Chicken Pox
- **≻** Floods − 1996
- **Cyclone −** 1998









# Journey: Adulthood

**Riots -1992** 

Earthquake – 2001

Terrorist Attack - 2002

(Gandhinagar)

Floods - 2006

Terrorist attack -2008

( Mumbai)

H1N1 - 2009

Cholera-2012

Bird Flu - 2017













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# **Building Today's Young Leaders Communicable disease Disasters**

Cholera 2012



Drought-1975



Swine flu 2010



Plague-1994



Floods2006



Earthquake-2001 in Surat



Cyclone -1998





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What does humanity need in such an environment?

How can we stop further deterioration of our habitat and human values?

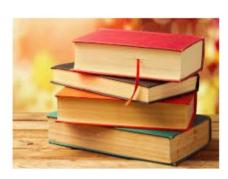
How can we make this world a better place to live?

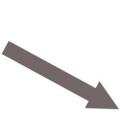




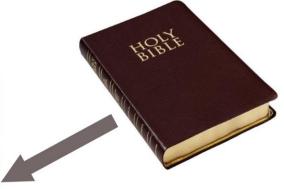
# METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

















Dr. Anil Kumar Chillimuntha Vice - President **Hospital Affairs METAS** Group of Hospitals



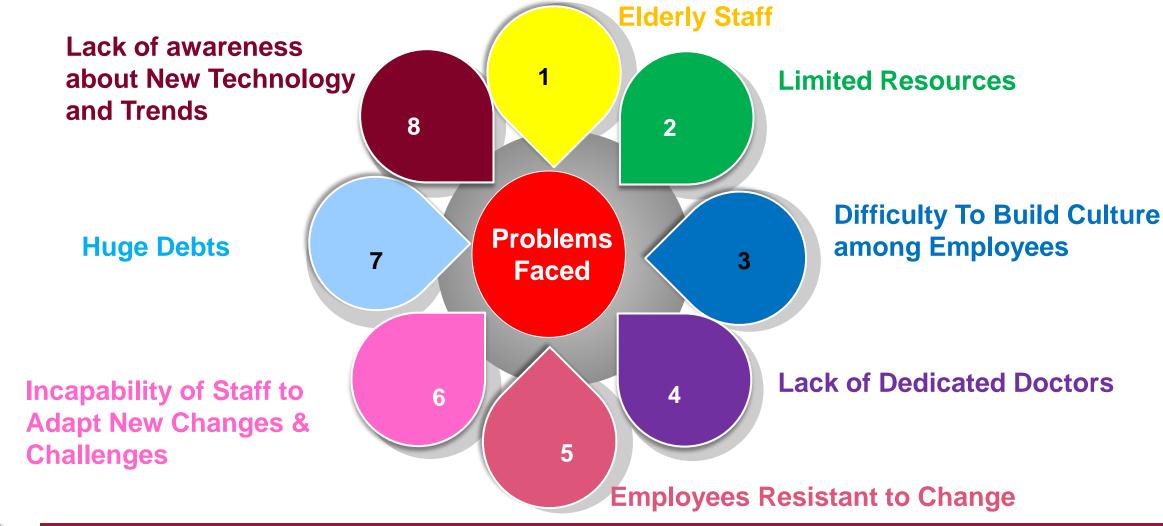
# Problems faced AS A YOUNG LEADER Before Embracing Quality & Change



# **Problem Faced As Young Leader**



### **METAS ADVENTIST HOSPITAL**



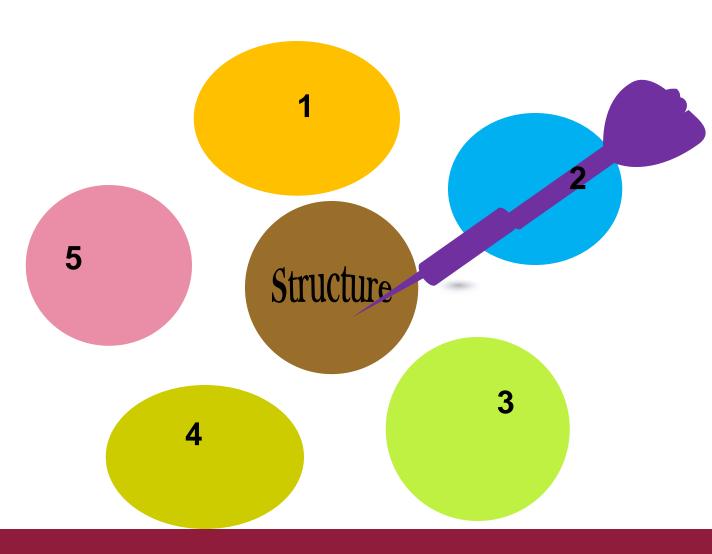


# A. Status Of Structure In 1999



### **METAS ADVENTIST HOSPITAL**

- 1. Old Dilapidated Building.
- 2. No Patient Friendly Structural flow.
- Bed Strength 120.
   Average Occupancy <10 %.</li>
- Inadequate Patient & EmployeeSafety Tools.
- 5. OT Roof Asbestos Sheets.

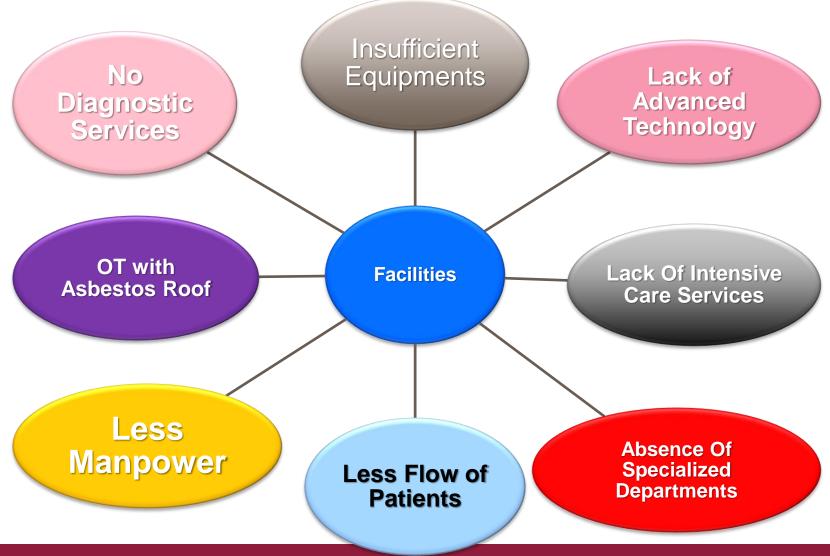




# **B. Status Of Resources In 1999**



# **METAS ADVENTIST HOSPITAL**





# C. Status Of Services In 1999



### **METAS ADVENTIST HOSPITAL**

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K

Limited Scope of Services

v

Lack of Superspeciality Doctors

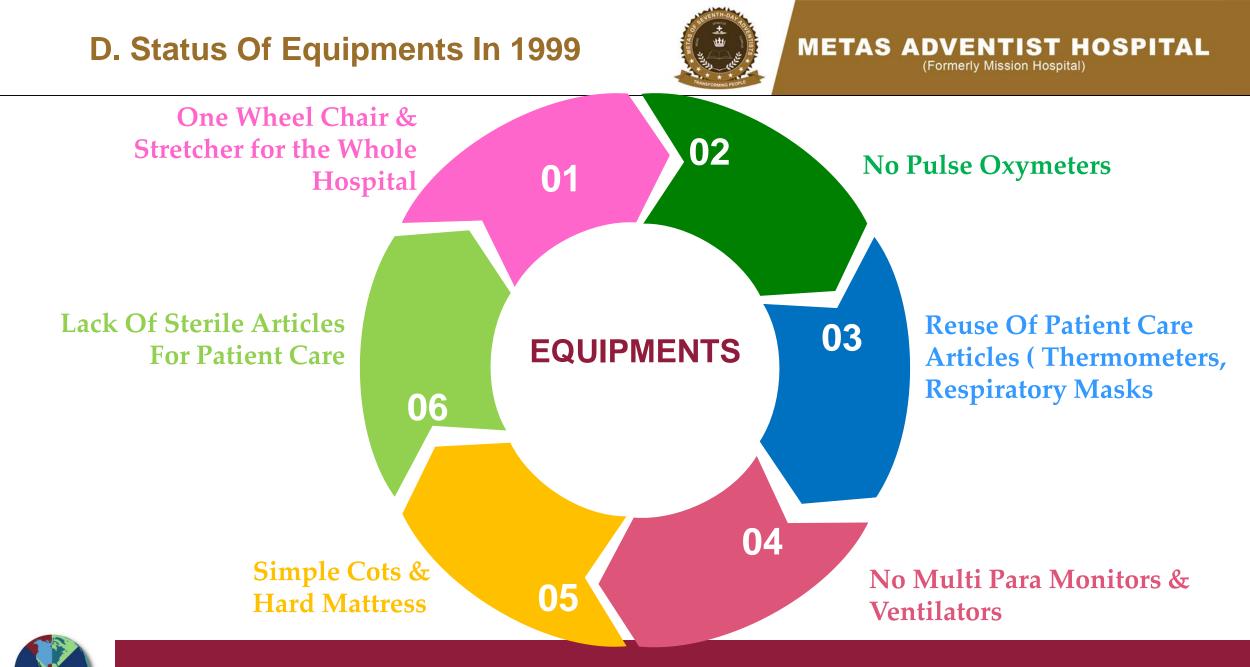
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> Inadequate Diagnostic Services

D.

No Ambulance Services





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# E. Status Of Quality Practices In 1999



### **METAS ADVENTIST HOSPITAL**



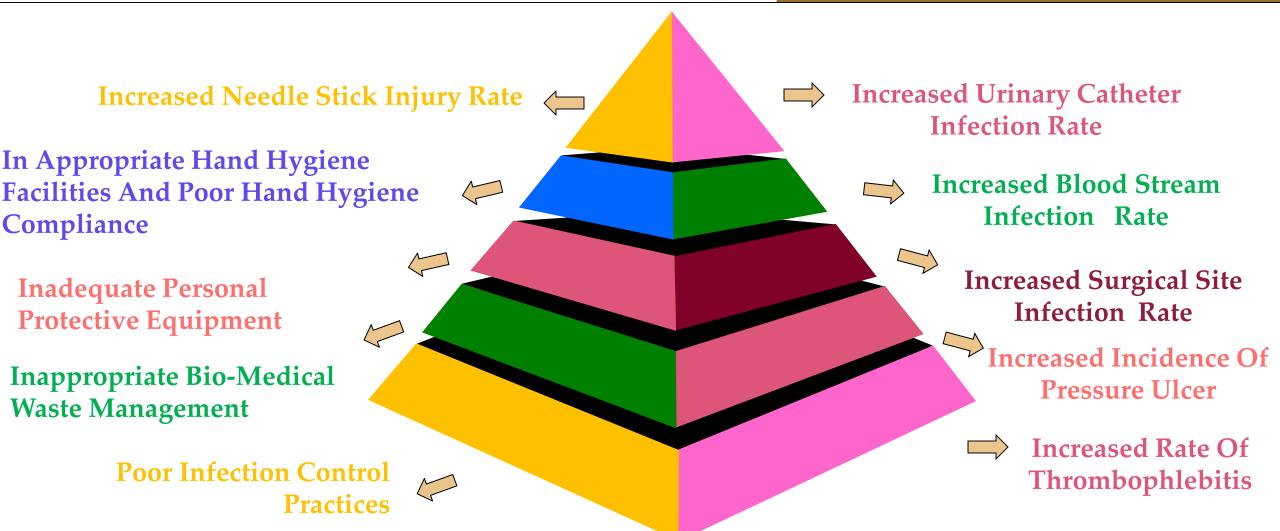


# F. Status of Infection Control in 1999



### **METAS ADVENTIST HOSPITAL**

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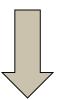


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# **Hospital Board Met In 1999**



# **Voted to CLOSE THE HOSPITAL**



Run Nursing College in Existing Hospital Building



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# **THE CHALLENGE OF TRANSFORMATION – Change Management**



Dr. M.S Jeremiah, Founder President & CEO, Metas Group of Institutions



# From 1999 -2009 Infrastructure was built and initiated Business Development

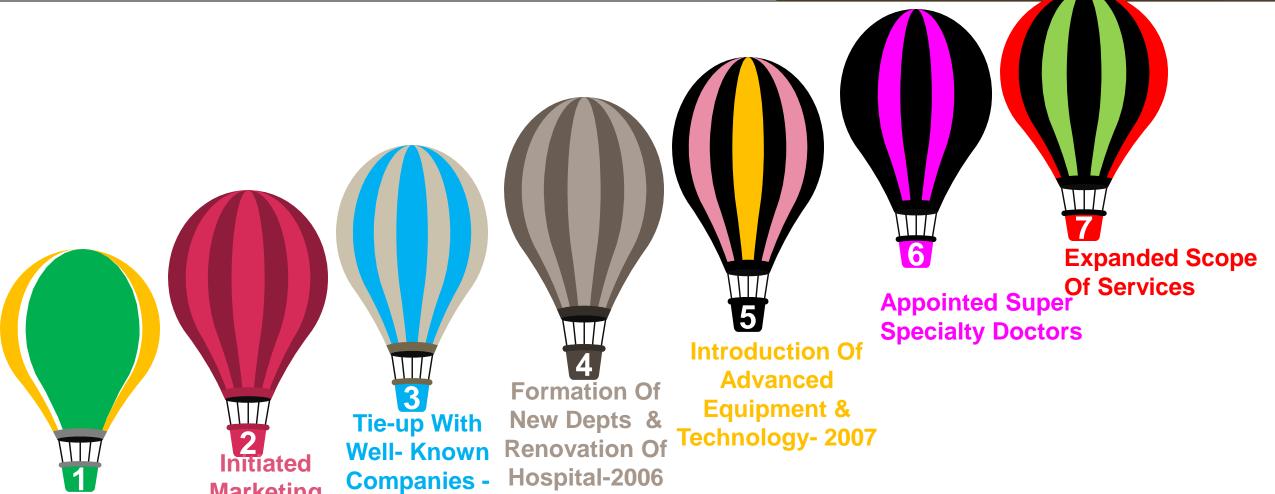


# **Focus On Achievements**



### **METAS ADVENTIST HOSPITAL**

(Formerly Mission Hospital)



**Associate Vice-**2001 nt -1999

**Joined As A** 

Marketing

**Strategies -**

2005

# **Marketing Strategies**



# **METAS ADVENTIST HOSPITAL**





General Camps



Free eye surgeries



**Diabetes Rally** 









# **Tie-Up with Well- Known Companies - 2005**



### **METAS ADVENTIST HOSPITAL**







































# **Tie-Up with Well- Known Companies - 2005**



### **METAS ADVENTIST HOSPITAL**

(Formerly Mission Hospital)

























ABG

**ABG Shipyard Limited** 













# **Formation of New Departments**



# **METAS ADVENTIST HOSPITAL**

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new Depts & renovation of Hospital-2006

**Customer Care -2001** 



**Dialysis Unit-2011** 



**Intensive Care Unit** 



VIP Room-2013





Microbiology





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# **Formation of New Departments**



# **METAS ADVENTIST HOSPITAL**

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### **Medical Records Department**



**Blood Storage Unit** 



**Pathology** 



**Imaging** 



**Airport Medical Center** 



**Home Care** 





# **Introduction of Advanced Equipment - 2007**



# **METAS ADVENTIST HOSPITAL**

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**Storz Endoscopy -2008** 



**Surgident LED lights-2012** 



Class 100 Theatres with Hepa filters



**Olympus Operating Surgical Microscope** 



RupsPlasma sterilizer - 2014



J &J Vessel sealer-2015



ETO - 2017





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# **Expanded Scope of Services**



### **METAS ADVENTIST HOSPITAL**



- General Medicine
- General Surgery
- Orthopedics'
- Neurology
- Neurosurgery
- Ophthalmology
- Gastroenterology
- General Medicine
- General Surgery
- Internal Medicine
- Minimal Access Surgery
- Nephrology
- Nero-Surgery
- Obstetrics & Genecology













# **Expanded Scope of Services**



# **METAS ADVENTIST HOSPITAL**

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- Oncology
- Onco Surgery
- Ophthalmology
- Orthopedic
- Pediatrics
- Plastic Surgery
- Psychiatric
- Urology

### **Round the Clock Services**

- Pharmacy
- **Emergency with Ambulance**
- Intensive Critical Care Unit
- Operation Theater
- Pathology
- Hemo Dialysis
- Blood banking

### **Services available in Diagnostics Imaging**

- C T Scan
- Sonography
- X-ray
- 2D echo
- TMT
- PFT











# **Medical Evangelism**



# METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

S.No	Practices	Percentage
1	Prayer with each patient at bedside	80%
2	Play Soft music in the whole hospital facility	100%
3	Pray before commencement of every shift	82%
4	Prayer in the nursing station by all the staff	86%
5	Prayer at the bedside for the assigned patients by each staff before the duty starts	81%
6	Prayer in the OT before taking inside for surgery	89%
7	Prayer in the OT before taking inside for surgery	90%
8	Mid day prayer at 12 noon	95%
9	Bedside Singing bands in the weekends	60%



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# METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)





MEDICAL **EVANGELISM** 











### **NEW CHURCHES ESTABLISHED**



## METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

S.No	Church	Language	Area	District
1	S D A church	English	Athwalines	Surat .Gujarat
2	S D A church	Gujarati	Athwalines	Surat .Gujarat
3	S D A church	Telugu	Limbayat	Surat .Gujarat
4	S D A church	Tamil	Pandesara	Surat .Gujarat
5	S D A church	Gujarati	Sayon	Surat .Gujarat
6	S D A church	Telugu	Bhatar	Surat .Gujarat
7	S D A church	Gujarati	Kadodara	Surat .Gujarat







## **NEW CHURCHES ESTABLISHED**



## **METAS ADVENTIST HOSPITAL**

S.N o	Church	Language	Area	District		S.N o	Church	Language	Area	District
8	S D A church	Gujarati	Madvi	Vyara .Gujarat	1	15	S D A church	Gujarati	Lakholi	Songagh .Gujarat
9	S D A church	Gujarati	Areth	Vyara .Gujarat	1	16	S D A church	Gujarati	Junvan	Songagh .Gujarat
10	S D A church	Gujarati	Anthoroli	Vyara .Gujarat	1	17	S D A church	Gujarati	Ghodchit	Songagh .Gujarat
11	S D A church	Gujarati	Kantowow	Vyara .Gujarat	1	18	S D A church	Gujarati	Ghutwel	Songagh .Gujarat
12	S D A church	Gujarati	Sarkui	Vyara .Gujarat	1	19	S D A church	Gujarati	Vazarda	Songagh .Gujarat
13	S D A church	Gujarati	Vyara Tichakpura	Vyara .Gujarat	2	20	S D A church	Gujarati	Tadkua	Songagh .Gujarat
14	S D A church	Gujarati	Balpur	Vyara .Gujarat	2	21	S D A church	Gujarati	Gunsadh	Songagh .Gujarat



### **NEW CHURCHES ESTABLISHED**



## METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

S.N o	Church	Language	Area	District
22	S D A church	Gujarati	Pakhari	Songadh ,.Gujarat
23	S D A church	Gujarati	Don	Songadh ,.Gujarat
24	S D A church	Gujarati	Khoksha	Songadh ,.Gujarat
25	S D A church	Gujarati	Medhsingi	Songadh ,.Gujarat
26	S D A church	Gujarati	Lauehali	Songadh ,.Gujarat









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## **Transformation of Hospital Since 1920**

2018



2006



1920





2001





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# Need for Quality-Embracing Change: Building Today's Leaders!

Dr. Srikakolli Eliah
President & CEO
METAS Group of Institutions



















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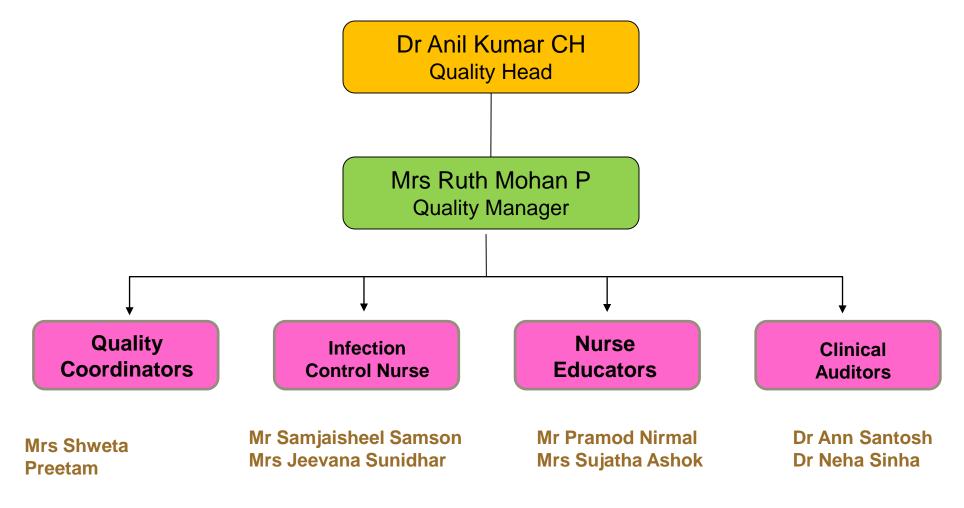
**Formation Of Super Specialty Services** 



## **Quality Team**



#### **METAS ADVENTIST HOSPITAL**







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## Journey in 2009-2010



## **Quality Trackers**

	METAS OF SEVENTH DAY ADVENTIST HOSPITAL, Surat  QUALITY DEPARTMENT TRACKERS -2018							
SNO	Trackers	Daily	Monthly	Quarterly	Half yearly	Yearly		
1	Tracking of Quality indicators							
2	Departmental cross Audits							
3	Departmental Audits							
4	Data Validation							
5	Out source audits							
6	Review of SOPs & Manuals							
7	Committees meeting minutes Monitoring							
8	Conducting Mockdrills							
9	Evaluating departmnetal QIPs & QA							
10	Analyzing departmental documents							
11	Monitoring for applied Accreditations documents							
12	Daily departmental rounds							
13	Review of meeting minutes							
14	Crashcart Audit							
15	Monitoring & updation of Chapter files							
16	Review of all documents							

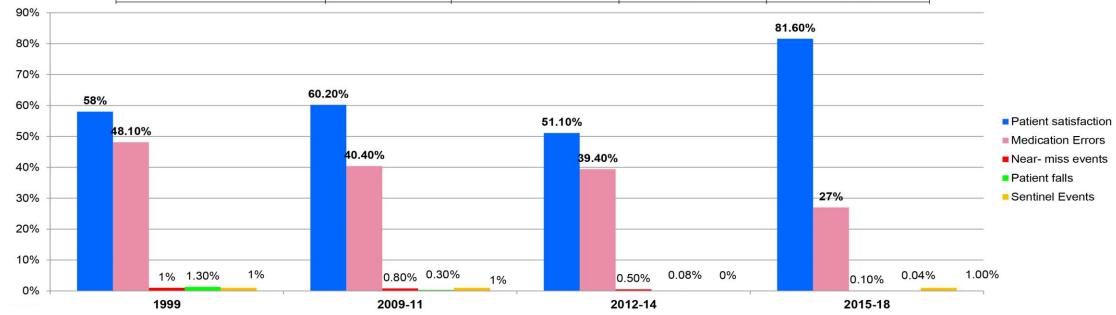




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## **Quality indicators 1999 - 2018**

	1999	2009-11	2012-14	2015-18
Patient satisfaction	58%	60.20%	51.10%	81.60%
<b>Medication Errors</b>	48.10%	40.40%	39.40%	27%
<b>Near- miss events</b>	1%	0.80%	0.50%	0.10%
Patient falls	1.30%	0.30%	0.08%	0.04%
Sentinel Events	1%	1%	0%	1.00%





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## METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

**Infection Control Indicators 1999 - 2018** 

	1999	2009	2012	2015	2018
Urinary Tract Infection	40.0	40.2	17	11.5	3.2
Respiratory Tract Infections	39.7	33.3	26.2	21.5	5
Surgical Site Infections	17.3	14.2	10.4	9.5	3.1
Hand Hygiene Compliance	52	69	75	85	90
Incidences of Thrombophlebitis	234	211	175	164	61
Pressure Ulcer Hospital Acquired	26	18	14	10	2

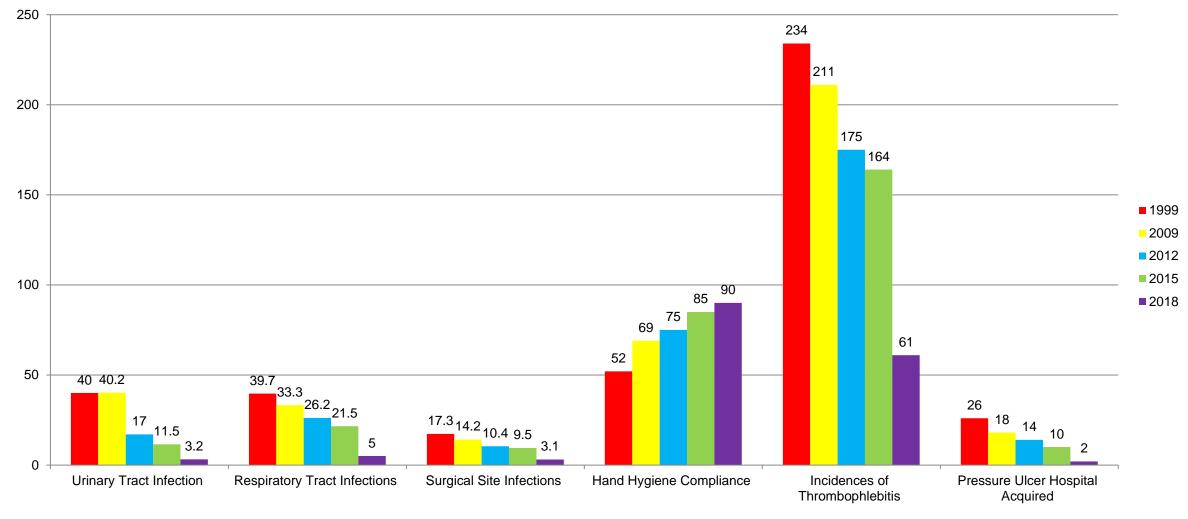


## <u>Infection Control Indicators 1999 - 2018</u>



#### **METAS ADVENTIST HOSPITAL**

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## Journey in 2011



## **Training & development programmes**

S.No	Type Of training & Development	No. of trainings held in a year	Percentage of Achievement
1	Daily In-service education for all the employees	2184 trainings /year	100%
2	Induction programs for the new employees	144 induction classes /year	100%
3	Departmental Induction	50/year	100%
4	OSCE	110 OSCE/year	100%
5	Training on new trends in health care settings	24 trainings/year	100%
6	ACLS/ BLS Training	240 employee/year	100%
7	Work shops	10 workshops/year	100%
8	Conferences	10satffs/year	100%
9	Seminars	28 seminars/year	100%



## **Training & Development Programs**



## **METAS ADVENTIST HOSPITAL**

S.No	Type Of training & Development	No.of trainings per year	Achieved in percentage
10	In House Research activities	86 QIP/year	100%
11	Journal club association ( www. Metas	3 articles/year	100%
12	Departmental Key performance indicators	351 KPIs/month	100%
13	Performance appraisal	351 employees/month	100%
14	Departmental competency assessmnet	58 assessments/year	100%
15	Quiz competitions related to health	65 /Year	100%
16	Need based trainings (KPI, incidents with CAPA, feedback, grievance)	As Per Need	100%



## **HOSPITAL COMMITTEES**



### **METAS ADVENTIST HOSPITAL**

(Formerly Mission Hospital)

## Journey in 2012



## METAS OF SEVENTH DAY ADVENTIST HOSPITAL, Surat COMMITTEE TRACKERS -2018

SNO	Trackers	Monthly	Twice in a month
1	THE MANAGEMENT REVIEW & QUALITY STEERING COMMITTEE		
2	PHARMACY & THERAPEUTICS COMMITTEE		
3	THE SAFETY ,RISK MANAGEMENT & EMERGENCY PREPAREDNESS COMMITTEE		
4	INFECTION CONTROL & HOSPITAL WASTE MANAGEMENT COMMITTEE		
5	ICU & OPERATING ROOM USERS COMMITTEE		
6	ANTI HARASSMENT COMMITTEE		
7	GRIEVANCE & DISCIPLINARY COMMITTEE		
8	THE HEALTH INFORMATION MANAGEMENT & MEDICAL RECORDS COMMITTEE		
9	CODEBLUE REVIEW COMMITTEE		
10	MORTALITY RATE REVIEW		
11	DIAGNOSTIC REVIEW COMMITTEE		



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**Journey in 2012** 



## **Audits**

## **Internal Audits**

Departmental Audits

•Quality Audits

Nursing Audits

Infection Control Audit

Budget Audits

## **External Audits**

Outsource Departments Audit

Department Audit by External

Assessors

Audits by Local Governing Bodies

Audits by Adventist Governing Bodies





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## Journey in 2013



## **Disaster management**

»Cyclones & Floods

»Earth quake

»Fire

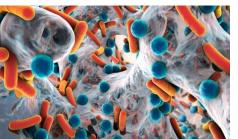
»Out breaks

**»**Riots

**»**Terrorism

»Bomb threat













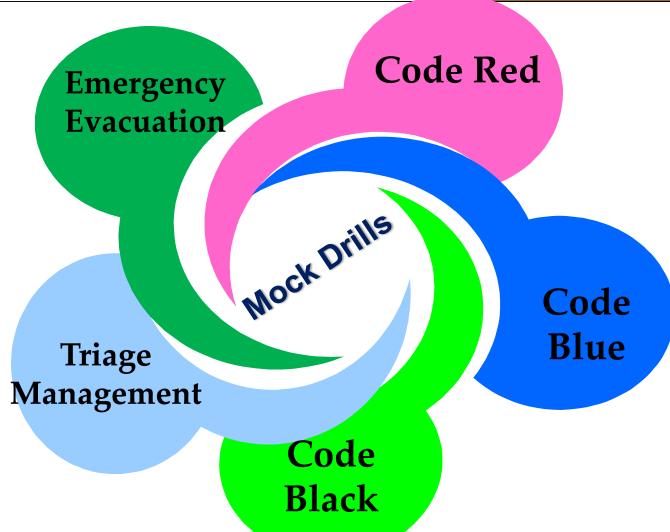




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Journey in 2013







## METAS ADVENTIST HOSPITAL (Formerly Mission Hospital)

	METAS OF SEVENTH DAY ADVENTIST HOSPITAL, SURAT  MOCKDRILL SCHEDULE 2018												
SNO	NAME OF THE MOCKDRILL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
1	CODE RED	12	16	23	19	18	22	27	10	21	24	20	28
2	CODE PINK	12			27			20			16		
3	CO DE BLUE	12	23	27	19	24	14	19	24	13	18	23	14
4	DISA STER MANA GEMENT	10			12			20			24		
5	TRIAGE MANAGEMENT		15		24		20		14		27		19
6	CO DE BLA CK	4			23			14			26		



## **Quality Improvement Programme**



#### **METAS ADVENTIST HOSPITAL**

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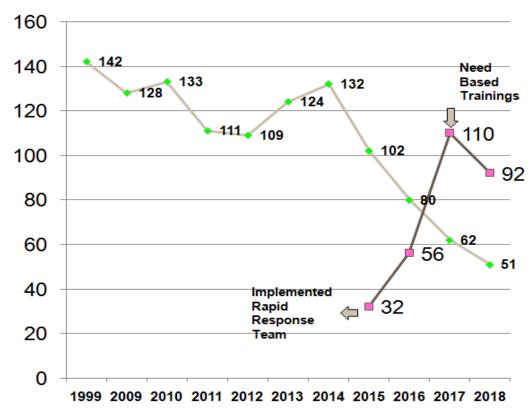
## **Journey in 2014**



year	No. of Code Blue	No. of Rapid Response Activated
1999	142	
2009	128	
2010	133	
2011	111	
2012	109	
2013	124	
2014	132	
2015	102	32
2016	80	56
2017	62	110
2018(jan- aug)	51	92

 $\begin{array}{l} \textbf{Total Percentage of Probable} \\ \textbf{decrease in Code Llue 2015 to 2018} \\ \textbf{-48\%} \end{array}$ 

## Rapid Response Team



- Number of Code Blue
- Number of Rapid Response Activated



## **Good Practices**



## **METAS ADVENTIST HOSPITAL**

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Journey in 2014



S.No	Good practices	Implementation	Acheived %
1.	TNAI Activities	2016	82%
2	Employee Appreciation	2017	96%
3	Medical Evangelism with full time chaplain	2017	75%
4	Mortality review meeting (every Thursday)	2016	80%
5	Inter – department Meeting (every Tuesday)	2016	100%
6	Employee/Nurses Meeting (every Wednesday)	2016	70%
7	Cleaning Day (every Thursday)	2016	75%
8	Ward Conferences	2017	86%
9	Journal Club discussion with new trends in nursing	2018	50%
10	Performance Appraisal	2015	100%
11	Ranking Employee Ranking Departmental Ranking	2018	60-70%
12	Blood donation, conducting rallys	2013	100%



## **Evolution of Qualitative Need-Based Training**

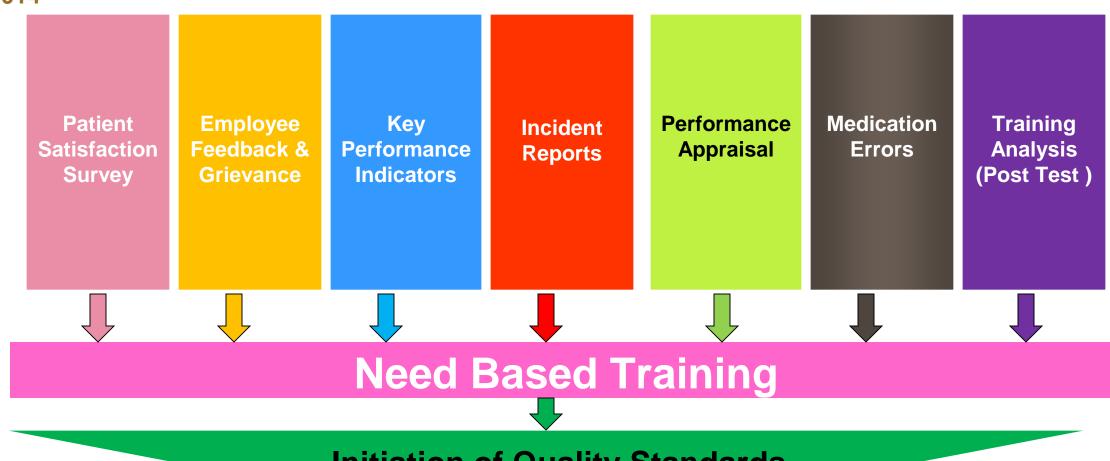


#### **METAS ADVENTIST HOSPITAL**

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Journey in 2014





**Initiation of Quality Standards** 



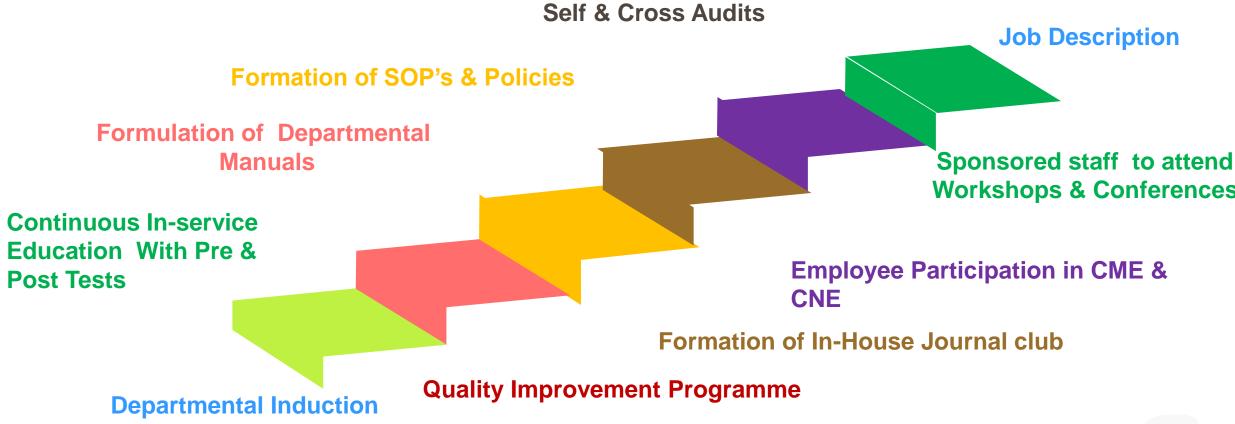
# **How We Achieved ? Success Tools for Quality Standards**



#### **METAS ADVENTIST HOSPITAL**

(Formerly Mission Hospital)

**Exposed Staff to NABH/JCI Accredited Hospitals for training** 





# **How We Achieved ? Success Tools for Quality Standards**



### **METAS ADVENTIST HOSPITAL**

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**Journey in 2016-2017** 



## Conducted Workshops & Conferences - 2016 & 2017











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**Journey in 2016** 



# 1<sup>st</sup> Hospital in Southern Asia to Achieve National Accreditation - NABH





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## **FUTURE GOALS**





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**During the Process of Achievement of National Accreditation-**

METAS Adventist Hospital Implemented 80% of JCI Standards

**Due to Financial Constraints – \$ 0.5 – 1 million** 

100% Achievement was not possible

**OUR VISION** 



**JCI ACCREDITATION** 





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## **5 Years - Strategic Plan Pillars**

Clinical Excellence and Quality of Care Improvements

Confidence in Care

Organizational and Partnership Development

Patient
Environment and
Infrastructure
Enhancement

Strengthen Financial Health



## **Strategic Action Plan**



## **METAS ADVENTIST HOSPITAL**

	2016	2017	2018	2019	2020
Strategic area 1:  CLINICAL EXCELLENCE AND QUALITY OF CARE IMPROVEMENTS	NABH QIP QA Formation of Committees Clinical Audits Patient safety Checklists & Audits	RRT  Reduce in no of Code blue incidence	Journal club Reduction in Hospital Attack rates NABH Accreditation application for Nuzvid Hospital	NABH NABL Research and publications NABH Accreditation for Ranchi Hospital	JCI Nursing Excellence
Strategic area 2: CONFIDENCE IN CARE	Bariatric/Neuro/ Uro surgeries  Day care  Outreach programs  Home care services  Free Surgeries	Introduction of advanced patient safety devices /strategies  Free Eye Surgeries  Health Checkups  Diet Counselling	Increase in OPD Registrations Increase in IPD Admissions Increase in patient satisfaction Increase in patient care quality Renal Transplant Centre Corneal Transplant	Radiation Oncology Mobile Clinics Telemedicine	Cosmetic Surgery  De-addiction centre  Satellite units  Liver Transplant



## **Strategic Action Plan**



## **METAS ADVENTIST HOSPITAL**

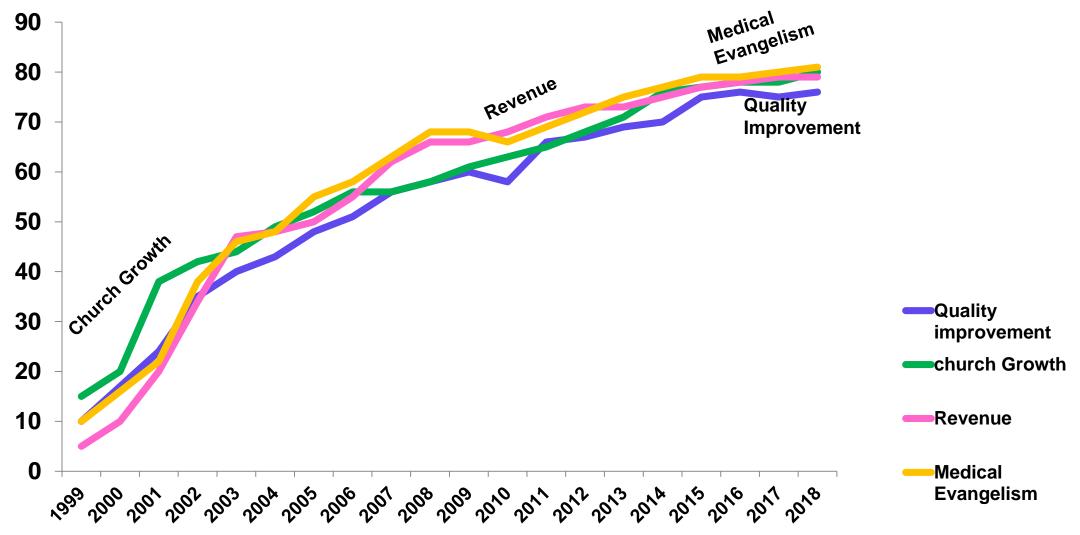
	2016	2017	2018	2019	2020
Strategic area 3:  ORGANIZATIONAL PARTNERSHIP DEVELOPMENT	-Training & development -TNAI Activities -Welfare activities -Employee Appreciation -Insurance and corporate empanelment -Mock drills	Performance evaluationKPIRCA & CAPA analysisMedical evangelismBLS & ACLS Certification	DNBCPS – Gynecology ISCCM Indo Australian Critical Care Course	CPS - PathologyCPS - AnesthesiaCPS - Orthopedics DNB-Orthopedics DNB - Gynaecology	DiplomaParamedical Hospital Based Courses
Strategic area 4:  PATIENT ENVIRONMENT AND INFRASTRUCTURE ENHANCEMENT	Fire alarm system  Disaster Mngt; Wheelchair Belts for Safety  Expansion of Oncology unit  Health Checkup Lounge	Expansion of departments  Hospital Gate  Cardiology Unit	New departments  Radiology  Pathology  Life Style	Modernization of OT In house Laundry Bone Marrow Transplant Brain & Spine Unit	MRI centre  HVAC systems  Modernization of Cafeteria  IVF Unit
Strategic area 5: STRENGTHEN FINANCIAL HEALTH	Internal Marketing External Marketing Free camps & surgeries Charity Cost Studies Vendor Negotiations Employee Insurance	New Companies Enrolled – 11/71  Restored Blacklisted Insurance 7/10 Energy Saving	Government schemes Package system DPCO/ GST Rural Marketing 90 Day Credit Front Office Mngt	Target Based Marketing International Marketing Reduce Employee Cost	Revamp Revenue Cycle Centralize Vendor Mngt



## **Outcomes Of Embracing Change**



### **METAS ADVENTIST HOSPITAL**





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# For Initiation of Quality in an Organisation we need Leaders who

- **≻**Can Take Initiatives
- **≻**Have The Ability To Manage People
- **≻**Have Courage to Take Risks
- **≻**Have Capability to Generate Innovative Ideas
- **≻**Have Long Term Vision
- **≻**Have Willingness to Embrace Change





## Disclosure of Conflict of Interest

I do not have any relevant financial relationships with any commercial interests.

# Questions