

# QUALITY BEYOND ACCREDITATION - CLINICAL OUTCOMES

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EX chairman NABH

# Clinical Outcomes- What and Why

- The <u>results of care</u> in terms of patients' health over time w.r.t a specific disease or procedure
  - Discomfort
  - Timelines
  - Complications of care
  - Patient satisfaction with health
- Reflect the <u>full cycle of care</u> and its impact for that disease
- Should include the health results most relevant to patients
- Measurement <u>must include initial conditions/ risk factors to allow for</u>
   <u>risk adjustmen</u>t (risk stratification) and enable comparisons



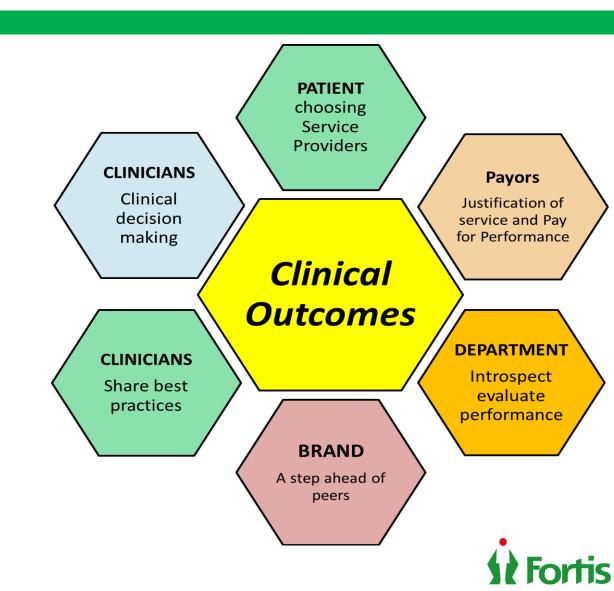
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# The Value Proposition

### **Clinical Outcomes**

Globally agreed upon, evidence based measurable changes in health or quality of life resulting from patient care.

Reporting of outcomes and its continuous monitoring provides an opportunity for assessing <u>and</u> improving quality of patient care.



# **HOW** we started

Monitoring of Clinical Outcomes identified as a pillar of Fortis' core value of PATIENT CENTRICITY.

Brainstorming sessions with stakeholders.



Specialties, procedures and outcomes parameters selected on basis of

Case Mix

**Procedure Volumes** 

Organization Focus Areas



Procedures Identified

Coronary Artery Bypass Graft

Percutaneous Transluminal Coronary Angioplasty

**Total Knee Replacement** 

### **Our Journey**

Fortis Clinical Outcomes Reporting Portal developed and tested

Outcomes reporting added as Key Result Areas (KRA) in Performance Management System of Hospital managers and Doctors

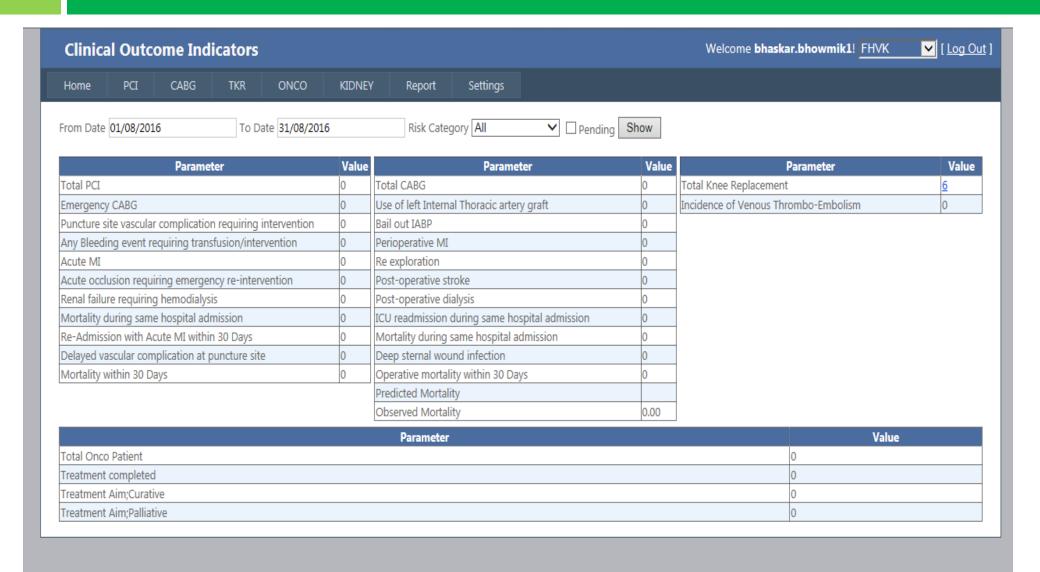
Culture Change management with focus on promoting a culture of frank reporting and transparency

Pilot at Fortis Escorts Heart Institute (FEHI) from Aug'13 – Dec'13

Roll Out to other Fortis network hospitals

- Jan'14

### **Fortis Clinical Outcomes Portal**



# Value-Based Health Care Delivery



"Sound Strategy Starts with having the right goal"

Micheal Porter

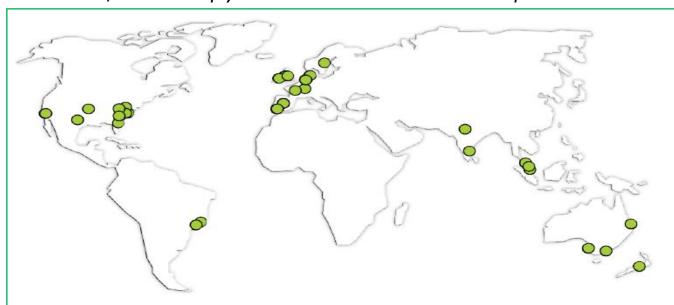
Michael Porter is the Bishop William Lawrence University Professor at Harvard Business School - the highest professional recognition that can be awarded to a Harvard faculty member.

- One of the world's most influential thinkers on management and competitiveness.
- Based on his research, Value based Healthcare Delivery is a framework for restructuring healthcare systems with the overarching goal of value for patients and not access, cost containment, convenience or customer service.

Fortis Escorts Heart Institute registered as implementation site of ICHOM\* CAD Set (Mar'14)

### HI ICHOM - International Consortium for Health Outcomes Measurement

A non-profit organization founded in 2012 by the Boston Consulting Group and Professor Michael E. Porter of Harvard Business School, among others. Guiding principle – 'ultimate measure of success in health care is health outcomes, defined simply as the results that matter most to patients'.











### Ramping up.....the VITAL link

 Partnership with VitalHealth <sup>TM</sup> (ICHOM certified supplier) in June 2015 for providing Quest Manager platform for Outcomes reporting

Ensures conformance to all ICHOM requirements and add Patient Reported

**Outcome Measures** 

Flexibility provided to suit Indian requirements

Fortis Outcomes data validated by Vital Health





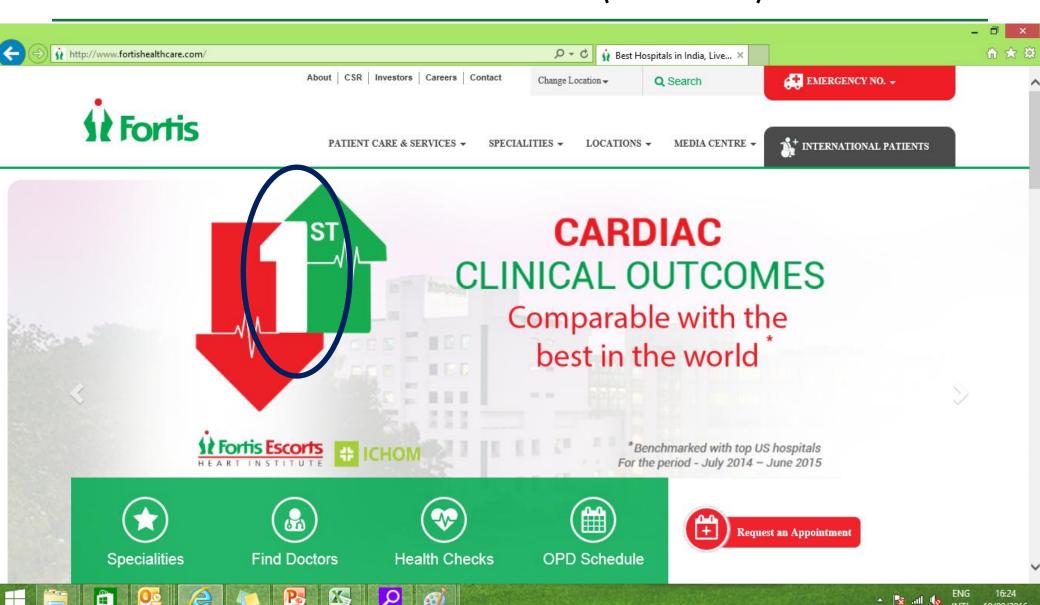
# Fortis Clinical Outcomes Portal: Quest Manager

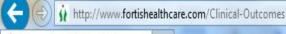
### Registration Portal



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# Fortis becomes the 1<sup>st</sup> Healthcare Provider in Asia to publish Clinical Outcomes data on the website (Jan 2016)











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#### WEBSITE SCREEN SHOTS

nd hope the Government will step in quickly to resolve this anomaly. Meanwhile, at Fortis hospitals across the country, we continue to accept payments through credit card, debit card and electronic banking transfers. As 500 and 1000 Rupee denomination

ABOUT CSR INVESTORS CAREERS CONTACT

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PATIENT CARE & SERVICES \*

SPECIALITIES \*

LOCATIONS -

MEDIA CENTRE ▼



#### Clinical Outcomes at Fortis Healthcare

Fortis Healthcare Limited, is one of the largest integrated, healthcare services provider in the country. Fortis aspires to drive clinical excellence through continuous improvement and enhancement of its clinical care and services.

Clinical Outcomes are the globally agreed upon, evidence based measurable changes in health or quality of life resulting from patient care. Reporting of outcomes and its continuous monitoring provides an opportunity for both assessing and improving quality of patient care.

To strengthen its core value of Patient Centricity, all Fortis hospitals continuously monitor and evaluate their clinical outcomes for multiple procedures and disciplines, namely:

- 1. Coronary Artery Bypass Graft (CABG)
- 2. Percutaneous Transluminal Coronary Angioplasty (PTCA)
- 3. Kidney Transplant
- 4. Total Knee Replacement
- 5. Radiation Oncology
- 6. Endoscopic Retrograde Cholangio Pancreatography (ERCP)
- 7. Maternal and Child Health

Clinical outcomes of more procedures are constantly being monitored and will be added in phases.

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PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY (PTCA)	Jul'14 - Dec'14	Jan'15 -Jun'15	Jul'15 - Dec'15	Jan'16 -Jun'16	Benchmarks
Emergency CABG for failed procedure	0.07 %	0.06 %	0 %	0 %	1.2 %*
Vascular complication at puncture site requiring intervention (beyond simple compression)	0 %	0.06 %	0.07 %	0 %	1.1 %*
Acute vessel occlusion requiring emergency re-intervention	0 %	0 %	0 %	0.06 %	Į.
Post procedure neurological stroke	0 %	0.13 %	0.13 %	0.06 %	0.284 % **
Post procedure Renal failure requiring hemodialysis	0 %	0 %	0.07 %	0.13 %	î
Any Bleeding event requiring transfusion/intervention (within 72 hrs.)	0.07 %	0.06 %	0.07 %	0.51 %	4.0 %*
Delayed vascular complication at puncture site	0 %	0 %	0.07 %	0 %	
Readmission with acute Myocardial Infarction within 30 days	0 %	0 %	0 %	0.13 %	-
Mortality during same hospital admission	0.26 %	0.97 %	0.26 %	1.34 %	1.7 %*

#### References:

<sup>\*</sup> US National Registry Data 2013

<sup>\*\*</sup> Cleveland Clinic Outcomes Report 2014







CORONARY ARTERY BYPASS GRAFT (CABG)	Jul'14 - Dec'14	Jan'15 -Jun'15	Jul'15 - Dec'15	Jan'16 - Jun'16	Benchmarks
Use of left Internal Thoracic Artery graft	78.50 %	77.36 %	79.01 %	80.25 %	74.20%*
Need for a Bail out Intra Aortic Balloon Pump (IABP)	1.31 %	0.99 %	0.64 %	0.31 %	-
Perioperative Myocardial Infarction	0.16 %	0.50 %	0 %	0 %	0.96 %**
Post procedure neurological stroke	0 %	0 %	0.48 %	3.40 %	0.80 %*
Need of Re-exploration surgery	1.97 %	3.31 %	3.50 %	0.46 %	3.50 %*
Deep sternal wound infection	0.33 %	0.50 %	0 %	0.15 %	0.20 %*
Predicted mortality (using Euroscore II)	2.24 %	2.21 %	2.25 %	2.20 %	-
Observed mortality	2.30 %	1.82 %	2.54 %	2.01 %	-

#### References:









<sup>\*</sup> Cleveland Clinic Outcomes Report 2014

<sup>\*\*</sup> Texas Heart Institute 2014





#### KTP Data - Fortis Vasant Kunj

FHVK Clinical Outcomes(Kidney Transplant) with International Benchmarks

Patient and Graft survival is the most accepted clinical outcome parameter for measuring success of a kidney transplant surgery. At Fortis, transplant recipients are followed up by means of consultations and checkups at regular basis to assess their general well-being and functioning of the transplanted kidney. The 1 year survival rate of our patients is mentioned below along with the international benchmarks.



One year survival rate of Kidney Transplant patients(n=122)	Apr'14 - Mar'15	Benchmarks
One year survival	94.87 %	90-95%* 90-95%** 97%***

#### References:







<sup>\*</sup> Kidney Research, UK

<sup>\*\*</sup> Kidney Foundation of Canada

<sup>\*\*</sup> National Kidney Foundation, USA

# The Spread

#### Hospitals Reporting

**FEHI** 

**FMRI** 

Fortis Noida

Fortis Shalimar Bagh

Fortis Vasant Kunj

Faridabad

Fortis Anandapur

Fortis Mulund

Fortis Bannerghatta Rd

Fortis Cunningham Rd

Fortis Malar

Fortis Vashi

Fortis Mohali

Fortis Ludhiana

Fortis Amritsar

Fortis Jaipur

**FHKI** 

#### Clinical Outcomes

#### **Existing**

CABG

**PTCA** 

TKR

Kidney Transplant

Radiation

Oncology

**ERCP** 

#### <u>Pilot</u>

- Liver Transplant
- Heart Transplant

#### **Planned**

Spinal disc surgery Prostate cancer

**Robotic Surgery** 

Mental Health

#### **Key Focus Areas**

Clinician validation

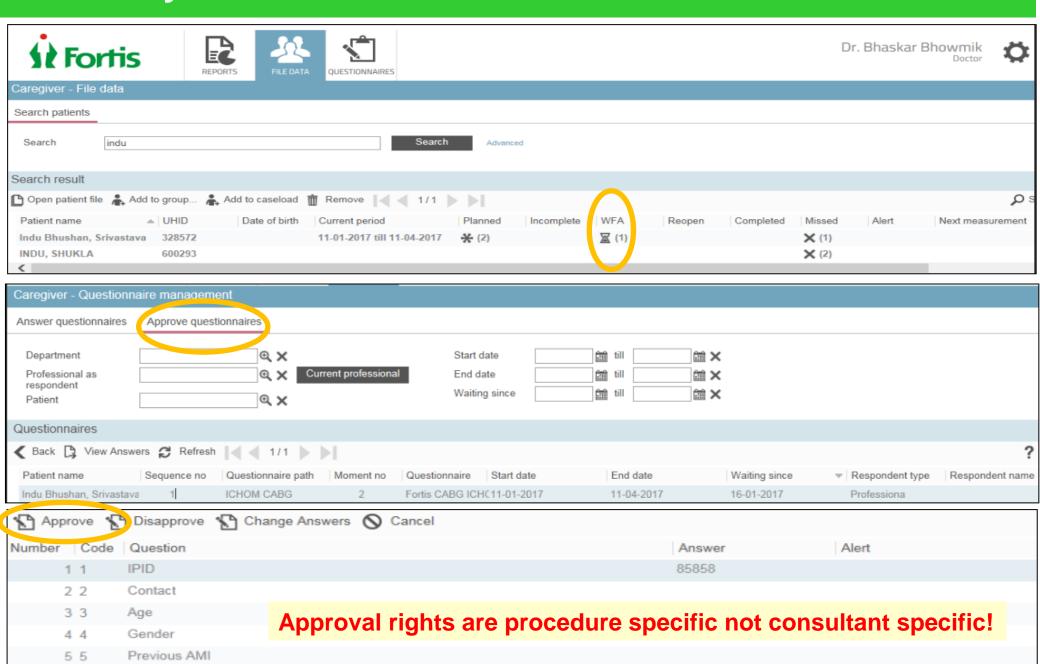
Functional Report generation & Electronic Validation process

**PROM** implementation

Outcomes publishing on website

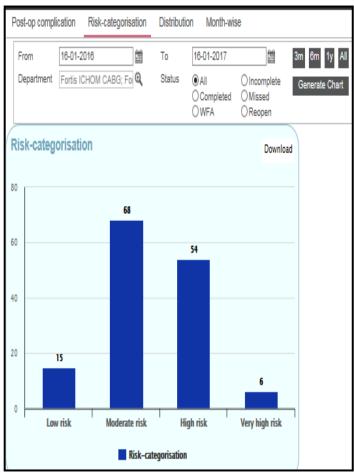


### Recently Added Feature 1: Electronic Validation



### Feature II: Functional Report Generation





Basic report generation and graphical display at end user level



## Summary

- Implementation of ICHOM standards has helped Fortis Clinical Excellence Program in improving patient engagement and strengthening our commitment to our core value of Patient Centricity.
- Validation and certification of our Clinical Outcomes data by Vital Health as an ICHOM Certified Supplier adds confidence to our claim of being leaders in this space and we are the first Healthcare chain in India to publish our Clinical Outcomes on the website.

