

BRIEF HISTORY-

EHCC Hospital, Jaipur, This landmark Healthcare Institute is the result of the vision of Dr. Samin K. Sharma, world-renowned Interventional Cardiologist based at Mount Sinai Hospital, New York, USA. Founded in 2013 Eternal hospital is the only hospital of the state with JCI (Joint Commission International)

VISION-

A centre of excellence in area of medicine with highest international standard at an affordable cost for the community around the globe.

MISSION-

To redefine healthcare by improving outcomes and experience of patients through cutting edge of research and personalized clinical care including innovative, preventive, diagnostic, therapeutic and rehabilitative services.

SWOT ANALYSIS

STRENGTH-

1. First corporate hospital with multi super specialty in Jaipur with JCI accredited.
2. Appropriate icu settings with latest equipment and technology.
3. Good infrastructure with standard jci accredited protocols.
4. Competent clinical professionals.

WEAKNESS-

1. There should be more manpower .
2. Single entry and exit area in neuro-icu , there is no separate fire exit.
3. There should be separate icu counselling area for attendant's.

OPPORTUNITIES-

1. Technological advancement in healthcare sector.
2. Adequate research facilities.
3. Academic growth

THREAT

1. Difficult to counsel about critically ill patient to their relatives and attendants.
2. Working in an unfamiliar environment , anxiety about being infected, heavy workload leads to extreme exhaustion and depression in clinical professionals



SUGGESTIONS-

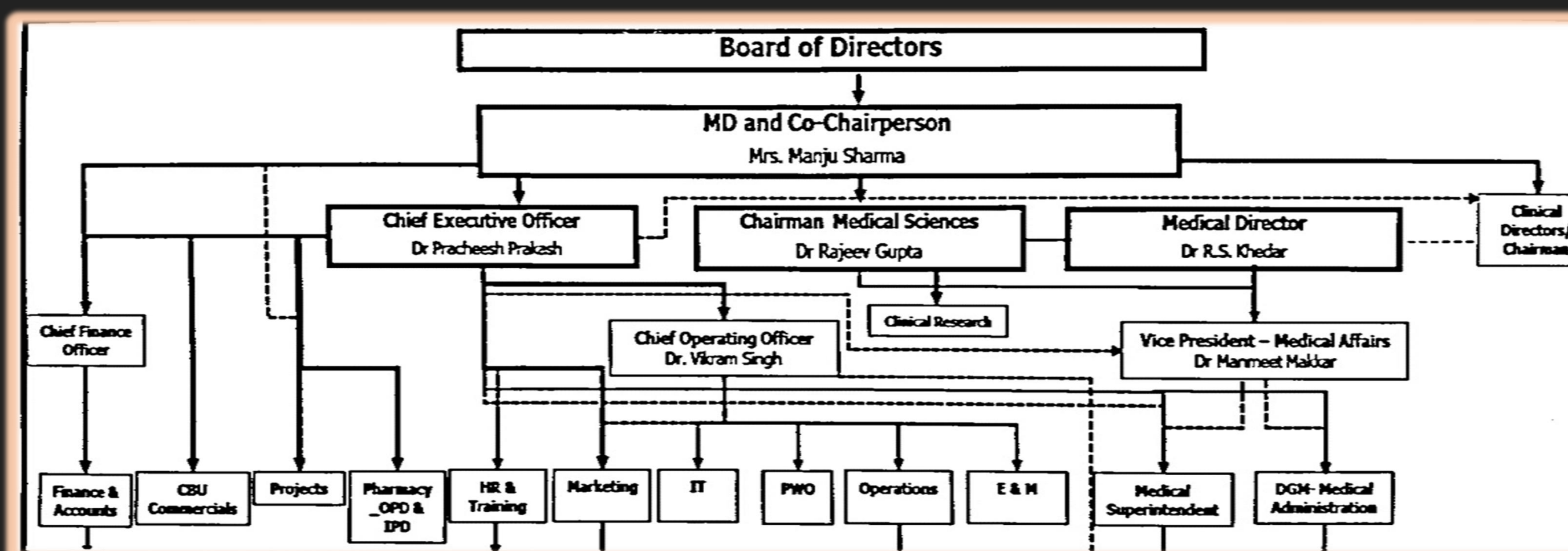
1. Education-Documentation in-service training sessions
2. Audits and feedbacks
3. Policy- Quality Team can generate a formal policy regarding timely completion of the APACHE within 24 hours of a patient's admission to the intensive care unit.
4. Computerized charting systems – we can use MD PLUS CAL app to make reliable APACHE score, and we can train our staff which helps in technological advancement in healthcare system.

LEARNING-

- ✓ Exposure to quality department of jci accredited multispecialty hospital and understand the process of flow of care through department.
- ✓ Opportunities to interact with senior consultants, resident doctors in icu and gain the knowledge regarding Apache tool and how to use it in icu to calculate the severity of disease.

VALUE ADDITIONS

- ✓ Implementation of APACHE II tool done in different icu's through valuable communication with nursing staff.
- ✓ Scheduled training session done with icu in charges and encourage them to implementation of APACHE II tool.



AIMS & OBJECTIVE:

- Implementation of APACHE- II score system in intensive care unit.
- To co-relate the APACHE-II score system with mortality in ICU.

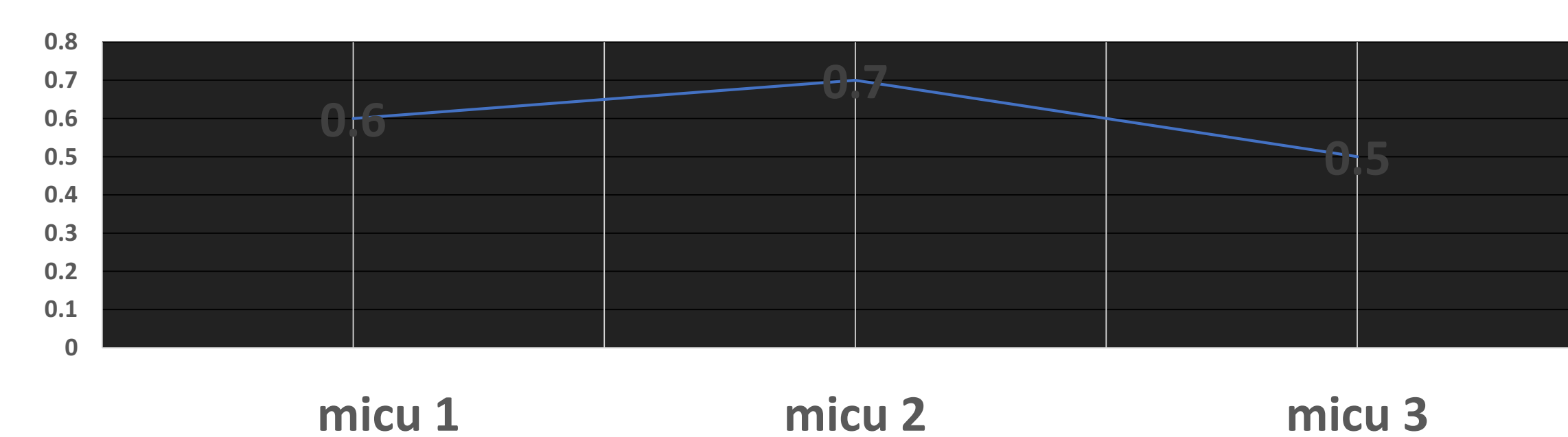
APACHE-II SCORE

- The Acute Physiological and Chronic health evaluation (APACHE-II) scoring system was released in 1985 by Knaus et al.
- APACHE-II is one of ICU Scoring system & provide predictive outcome of groups of critically ill patients who are admitted to ICUs.
- APACHE II score is sum of: Acute physiology score, Age , Chronic health score.
- worst value will be calculated in an initial 24 hours of admission in icu

METHDOLOGY

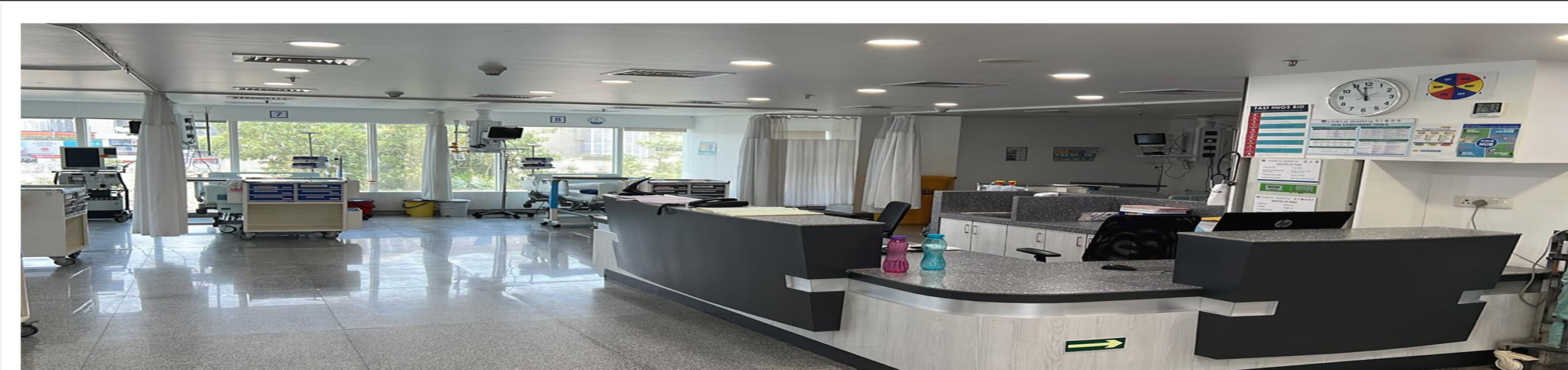
- **Study Design:** Analytical study
- **Place and Duration of Study:** The Intensive Care Unit (ICU) of eternal heart care centre Jaipur, from 11 April TO 03 June.
- **Sampling & sample size:** All patients admitted to the ICU over a period of one month were screened for eligibility.
- **Sample size – 100 patients**
- **Data Management:** -Data was collected over a period of one month and entered on a standard APACHE II scoring sheet and enter down on excel sheet for analysis.
- **Data collection tools:** Apache tool checklist, Md cal app

SMR (STANDARDISED MORTALITY RATE) GRAPH -01



ANALYSIS AND RESULT

- It is analysed that standardised mortality rate in micu 1 is 0.6, in micu 2 is 0.7 and in micu3 is 0.5
- Formula for calculation= (Observed Rate/Risk-adjusted expected Rate) X100 ,Observed rate = Actual death in ICU, Risk adjusted expected rate = Predicted death calculated by APACHE Model.
- Interpretation- Smr is equal to 1 -icu's mortality rate and the expected average rate are the same
- Smr >1- icu's mortality rate is higher than the expected average mortality rate.
- Smr <1- icu's mortality rate is lower than the expected average mortality rate.



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THEORITICAL WORK

- Theoretically I have learned about management process of hospital and health system.

PRACTICAL EXPOSURE

- Practically I have explored several departments in the hospital and learned their processes.

USEFULLNESS

- ✓ Able to learn about responsibilities as a manager

CHALLENGES

- ✓ It is difficult to educate every nursing staff of ICU regarding usefulness of APACHE
- ✓ Initially it is very difficult to find and explore several departments of hospital due to its large infrastructure
- ✓ Faced lots of difficulties to calculate fio2 level in ventilated patient and how to apply in Apache tool
- ✓ Food quality is not so good in EHCC canteen