

**Internship
at
Bhagwan Mahaveer Cancer Hospital and Research Centre,
Jaipur**

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The logo for IIHMR University, featuring the letters 'i' and 'H' in a stylized font, followed by 'IIHMR' in a large, bold, serif font, and 'UNIVERSITY' in a smaller, bold, sans-serif font to the right.
**The IIHMR University, Jaipur
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INTRODUCTION

Bhagwan Mahaveer Cancer Hospital and Research Centre, Jaipur (BMCHRC) came into existence in the year 1997 with initial bed strength of 50 beds as a beginning but gradually picked up with fast development with regards to infrastructure, installation of latest modern equipment, facility of OTs and 5 bedded ICU. Similarly, Surgical Oncology, Medical Oncology, Radiation Oncology, Radiology, Pathology, Blood Bank Departments were also equipped and well defined comprehensive state-of-art care facilities with bed strength of 150 were made available to the patients under one roof at BMCHRC.

At present with the construction of separate 9 floor IPD block (Phep Kanwar Kothari Memorial IPD), the bed strength has been further raised to 200 within no time in the interest of patient care being imparted here and have consistently achieved significant progress.

Under the constant supervision and guidance from the members of the management especially Chairman, Managing Trustee and Sr Vice Chairperson, this hospital has made a land mark in delivering cancer care services to the afflicted population of the nothern part of the country.

VISION

To make BhagwanMahaveer Cancer Hospital and Research Centre (BMCHRC) comprehensive world class Cancer treatment center with cutting edge technology.

Jaipur, the state capital of Rajasthan is the largest populated city in this region known for its art, culture and more. Though, there are quite good number of Government as well as private health care centers to cater to the needs of the suffering community, but still was lacking in specialized center which could take care of cancer patients. Ever since, various developments were initiated by the public as well as private sector to improvise the health care, but failed to establish a cancer care center in the state which was a dire need. As a consequence due to lack of proper infrastructure and treatment facilities, patients had to

go out of Jaipur i.e. to Delhi, Mumbai, Vellore and other places for treatment which of course is not in reach of many patients who had to give up in need of treatment.

Bhagwan Mahaveer Cancer Hospital and Research Centre, at Jaipur with the aim to make available the world class cancer care center with cutting edge technology so as to eliminate the problem of cancer in this part of the country.

MISSION

The MISSION was to create a comprehensive tertiary care center for cancer treatment where patients are served with world class facilities.

The ultimate PHILOSOPHY behind this project is to keep in pace with modern advancements so as to update the treatment facilities with time in providing best possible treatment to the cancer patients irrespective of caste, creed and nationality. The ultimate goal is to make this hospital one of its kinds not only in Rajasthan but finest amongst all the centers in north India.

“To control & eliminate the problem of Cancer & to alleviate the suffering of cancer patients in the Country.”

QUALITY ASSURANCE DEPARTMENT

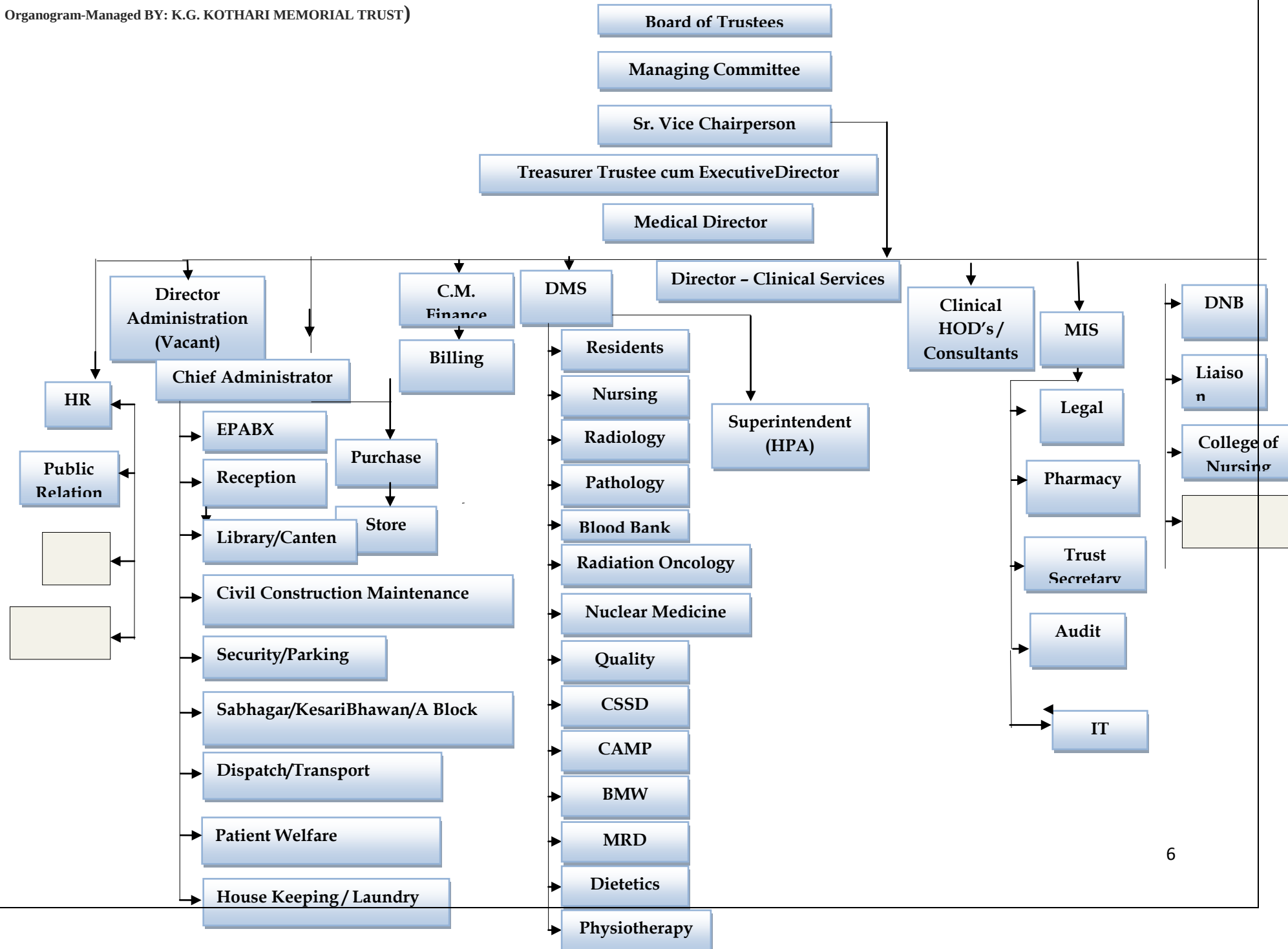
Quality Management Department focuses broadly on the four core principles for quality assurance in the institution. They are as follows:

1. Patient (customer)
2. Hospital delivery systems (systems and processes)
3. Analysis and problem identification (performance measurement)
4. Team work

Quality Policy

BMCHRC provides total health care to its patients, with the highest levels of skill, professionalism and ethical practice, leading to their effective care and treatment at affordable costs. BMCHRC is committed to Continued Quality Improvement.

Quality department brings forward the innovative ideas for the patient safety & quality services, feasibility study, planning, implementing & control process.



FACILITIES

BMCHRC provides various facilities and services. Besides professional care and support, hospital management is taking care of patients' inner comfort as well. Small greenery center while entering hospital stimulates inner calmness and relaxation. At hospital, patients have access to library and internet. The library is constantly enriching and is open 6 days a week.

Diagnostic Service

Radio Diagnosis Department

- 16 SLICE CT Scan (With Latest Technology)
- Mammography (To Diagnose breast Cancer)
- Color Doppler - 3
- Digital X-ray – 1
- OPG
- Colposcopy

Pathology Department

- Hematology
- Biochemistry
- Cytology
- Histopathology
- Microbiology
- Serum Marker Studies
- IHC Marker
- Clinical Pathology

Treatment Facilities

- Radiation Oncology Department
- Two Linear Accelerators (First in Rajasthan with technology of Rapid Arc, IGRT, IMRT and 3DCRT)
- Brachytherapy
- Cobalt

Nuclear Medicine Department

- PET CT 16 Slice (First in Rajasthan)
- Gamma Camera (For Bone Scanning)
- Radio Iodine Therapy (First & Only in Rajasthan only for Thyroid Cancer Patients)

Medical Oncology Department

- Day Care Ward (40 Bedded for Chemotherapy Patients)
- MICU

Surgical Oncology Department

- Operation Theatres
- 1 Integrated OT
- 3 Modular OT's
- 2 Other OT's
- 1 Endoscopy Theatre
- 14 bedded I.C.U

Department of Anesthesia & Palliative Care

- Home Care Facility provide by Palliative care to terminally ill patients

Blood Bank

- 24 hour available (all fractions of Blood)

Clinical Research Department

Pharmacy

- 24 hour available & Medicine are available at reasonable rates

Preventive Oncology

- Mobile Unit (Ambulance Services)- available for rural areas
- Nursing College (MSc, BSc & GNM Courses)
- Nursing Hostel
- Supportive facility
- Dietary Facilities
- Physiotherapy Facilities
- Newly Constructed IPD Block (9 story 200 Bedded)

FLOOR WISE FACILITIES ARRANGEMENTS-

Basement (old Wing)

- Pathology
- Blood bank

Basement (New Wing)

- CSSD
- Laundry
- Maintenance (Biomedical/ Electric etc..)
- Medical gases
- Housekeeping

Ground floor

Clinical-

- Nuclear medicine
- Radiation Oncology
- Day Care
- Dental Department

Non Clinical

- Reception
- Trust Office & Liaison Office
- PRO Office
- IPD Billing
- EPABX
- Canteen/ Cafeteria

Outside Area

- Pharmacy
- Bhojnalya
- Parking
- Bank

1st Floor (Old Wing)

- OPD (Medical/ Surgical)
- Radiology
- Internal Medicine
- Cancer Care
- Administration
- OPD Registration & OPD Billing
- Medical ICU
- Endoscopy
- OT
- PAC room
- Emergency
- BPL Counter

1st Floor (New Wing)

- Gynecology
- Physiotherapy
- Ward

- New Cancer Care
- Emergency
- MCU
- Palliative care

2nd Floor-

- New OT Complex
- Surgical ICU
- Ward II
- Pediatric Ward
- Patient Waiting Area

3rd Floor-

- Ward III (For General / BPL Patients)
- Deputy Nursing Superintendent

4th Floor

- Ward 4
- Discharge Section

5th Floor

- Department of Clinical Trials & Research
- Hospital Library
- HR
- Accounts
- Purchase
- MIS

6th Floor

- Semi Private Ward
- Super Deluxe Ward

7th Floor

- Deluxe Ward
- Super Deluxe Ward

A Block

- Residential Block

Radiology Department

Radiology department is situated on first floor. Radiology department provides full range of imaging services except MRI for every age group right from infant to older people at Bhagwan Mahaveer Cancer Hospital, Jaipur. Patient visit to the radiology department for various reasons such as to get their disease diagnosed and to get further treatment and consultation and also for preventive measures in case of preventive health care.

Services available in the radiology department-

- I.I.TV with 500 Ma X-ray and ultrasonography with superficial, abdominal, transvaginal and transrectal probes.
- Mammography, orthopantomography and 60 MA mobile x-ray machine & Spiral CT.
- 16 slice CT scan with ASIR Technology for low dose of radiation to patient has been acquired. This machine is having the latest software to diagnosis small lung & bowel tumors. All types of angiographies can be done.
- High end Color Doppler machine is there with added feature of ELASTOGRAPHY which is an innovative modality to differentiate benign and malignant tumors.
- In the department CT & USG guided FNAC's & biopsies are conducted regularly, even for small masses adjacent to vessels, vital organs and at remote sites.
- Cancer Marker study started recently.

Function of radiology department-

- To conduct the radiological investigations as per mentioned scope of services.
- To provide quality services based on quality assurance system.

- To ensure staff safety while conducting the radiological procedures & follow the defined safety parameters.
- To deliver the reports within defined TAT for every test.
- To ensure calibration status of all the equipment are updated

Staff-

Radiologist- 3

X- Ray Staff-

- Senior Radiographer- 2
- Junior Radiographer-2

CT Scan Staff-

- Senior Radiographer-1
- Junior Radiographer-2

Additional Staff -

- Medical Typist
- Registration staff
- Ward boy
- Ward lady

Average no test per day-

- X ray- 40 to 45
- USG- 30 to 35
- Mammography- 6 to 7
- CT Scan-25 to 30

Records-

- Adherence to safety precautions
- Redo's record
- Radiation protection record

- Stock register
- Indent book
- CT SCAN- Patient entry register
- PET-CT consumables transfer register
- Matching record (physician diagnosis to radiologist diagnosis)
- Contrast allergic reaction record
- Anaesthesia record
- Consumable items indent record
- Stock record

Contrast used in procedure-

Procedure	film	Iv contrast	Oral contrast
CT brain	1 or 2	40 ml	
CT whole abdomen	5	100 ml	40-50 ml
CT neck	3	60 ml	
CT chest	4	70-80 ml	
CT pelvis	3	80 ml	40 ml
CT chest with upper abdomen	6	80 ml	
CT upper abdomen		70-80 ml	30 ml

ORGANIZATIONAL LEARNING-

Internship was from 15th February to 14th May. Day to day training was taken after initial assessment of hospital staff. The trainings were followed by interactive session further proceeded by an effective analysis of the training of emergency conditions. That can occur in hospital. This will lead to patient and employee safety and timely and proper management of emergency to avoid any loss of life and property.

Key Learning-

Standard color coding was known and proper SOP was prepared with proper work distribution and planning to minimize time and damage to property and life.

Importance of safety, precautions, timely actions, division of work and proper coordination.

Staff interaction helped in proper understanding of their knowledge and awareness.

Time to time trainings in hospital helped in bringing out the interactive session leading to active participation and easy learning among staff.

By conducting mock drills it helped to evaluate awareness and also help in self-evaluation by practical approach.