Paediatrics

Introduction

Out Patient Department

Indoor Facility

  Pediatric Ward
  Neonatal Intensive Care Unit
  Pediatric Intensive Care Unit

Subspecialty Services

  High Risk Newborn Clinic
  Child Development and Guidance Clinic
  Immunization Services
  Genetic Clinic
  Endocrinology Clinic
  Epilepsy Clinic
  Hematology-Oncology Clinic
  HIV Clinic
  Nephrology-Urology Clinic
  General Pediatric, Neonatal and Orthopedic Surgery

Community Outreach Programme

Academics

  Courses offered
  Research and Publications
  Conferences and seminars organized

Vision 2020
The Department was established in 1993. Since then it has grown from a handful of doctors to a team of more than 30 full-time and honorary faculty members and 35 support staff with a mission and commitment to the care of children.

Our mission statement: “Imparting Knowledge, Empowering Children”, is based on our dual role as a training institute and clinical care facility. We strive to achieve the best possible standards

-in facilitating transfer of knowledge to students to train them to become tomorrow's great physicians and scientists.

-in treating children in an evidence based manner, adapting recommendations to local conditions and logistics. Our department logo serves as a constant reminder of the same.

The department runs post graduate programmes (MD, DCH) and also offers various post-doctoral fellowships in Neonatology, Pediatric Epilepsy and Pediatric Endocrinology. Apart from the clinical services and teaching, it nurtures a growing Research Cell.

The Pediatric care facility is spread over an area of 22,000 sq. ft. and includes the Pediatric OPD, Pediatric ward, Intensive Care Units and an office complex. Under this umbrella we offer a large range of facilities from neonatal intensive care to an array of subspeciality clinics:

Child Development and Guidance Clinic

Pediatric Endocrinology Clinic

Pediatric Epilepsy Clinic

Pediatric Hemato-Oncology Clinic,

High Risk Newborn Clinic

Pediatric HIV Clinic

Pediatric Nephrology Services

Through our outreach programme and retrieval facility we extend our services beyond the four walls of Bharati Hospital.

The OPD is child friendly with a busy aquarium and cartoon figures on the walls. Its location on the ground floor of the Hospital ensures that patients have easy access to the laboratory, radiology department and other OPDs like ENT, Ophthalmology and Dermatology.

- Waiting time reduced by exclusive registration counter and payment for vaccines etc, within the Pediatric OPD.
• Each child attending the OPD is issued a record book showing growth parameters, immunization and illnesses, which remains with the parents.

• A special cubicle affords necessary privacy to breast feeding mothers.

• A television with cable connection and VCD player in waiting area for entertainment and for parent education on health related issues.

• Social workers for counseling and welfare.

Dr. Ruma Deshpande, in-charge of the OPD complex, is available on all days of the week from 9 am to 4 pm.

The 3 unit heads along with unit members are available in the OPD 2 days a week.

Monday, Thursday: Dr. SK Lalwani
Tuesday, Friday: Dr. VR Kalrao
Wednesday, Saturday: Dr. Jyoti Sharma

Contact : 020 – 24375182. Ext : 128

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**Pediatric OPD Attendance 2006 - 2009**

- 2006: 21418
- 2007: 25784
- 2008: 39168
- 2009: 48125

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**The Pediatric Ward**

Located on the III floor of Bharati Hospital, the ward accommodates 120 beds, each with storage space and a bedside locker. Aesthetically designed in multiple colours to match the spirit of the little ones, it is illuminated with natural light and has a large aquarium, play-area and TV with VCD player.

- High Dependency Unit: 12 beds, each equipped with centrally supplied oxygen and suction.
- 9 special isolation rooms.
- ~ 20 admissions per day.
- Referrals from all over Maharashtra
- Well trained, dedicated nursing staff.
- Team of social workers taking care of aspects of patient care and funding.
- Printed discharge summary.
- Special proformas for speciality clinic records.
- Pantry for preparation of feeds by the mothers.

Other Facilities
- Seminar room equipped with audiovisual aids used for undergraduate and post-graduate teaching, as well as guest lectures.
- Departmental library and 24-hour internet access.
- Dedicated room for data operator for electronic capture of patient details.

Pediatric Ward Admissions 2006-2009
• National Neonatology Forum Accredited
• 60 bedded NICU spread over 10000 sq. feet.
• Advanced ventilation- HFOV
• Bubble CPAP
• TPN
• Neonatal surgery
• In house       • ABG & S Lactate estimation
                 • Neurosonography
                 • Echocardiography

• Video EEG
• ROP Screening & LASER therapy for ROP
• Hearing screen
• High risk newborn follow up clinic
• Neonatal retrieval services
• Postdoctoral Fellowship programme in Neonatology
• Electronic capture of patient details

The Team:    Dr. Pradeep Suryawanshi
             Dr. Nandini Malshe
             Dr. Rema Nagpal
             Fellows in Neonatology

Contact: 020-24375182 Ext: 312
Direct    : 020-24375542
ELBW & VLBW data of 2007 & 2008:

<table>
<thead>
<tr>
<th>Birth weight</th>
<th>Number</th>
<th>Number survived</th>
<th>Percentage of survival</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 kg</td>
<td>59</td>
<td>48</td>
<td>81%</td>
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<tr>
<td>1-1.5 kg</td>
<td>154</td>
<td>148</td>
<td>96%</td>
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Pediatric Intensive Care Unit

- Pediatric Critical Care Chapter Accredited
- 10 bedded PICU, located as an extension of the Pediatric Ward.
- Central supply of oxygen, suction and compressed air.
- Well equipped with 3 ventilators, multipara monitors, ECG monitors with oximetry, automated BP monitors with oximetry, infusion pumps, ECG machine, dedicated X-ray machine, a defibrillator and an automated cycler for peritoneal dialysis.
- PICU Admission 2004 – 2009

![Graph showing PICU admissions from 2004 to 2009 with numbers 243, 280, 292, 321, 346, and 372 for each year respectively.]

Dr. Vijay Kalrao
Dr. Jitendra Oswal
Dr. Sachin Khambayate

Contact: 020-24375182  Ext.: 514
SUB SPECIALITY SERVICES

High Risk Newborn Clinic

The clinic enrolls all babies discharged from a Neonatal Intensive Care Unit. Within it plays an important role in

- Monitoring of growth and development.
- Early detection of abnormal neurodevelopment and initiation of appropriate interventional therapies.
- Physical rehabilitation.
- Screening and management of prematurity.
- Assessment of hearing.

Team:

- Dr. Nandini Malshe
- Dr. Rema Nagpal
Child Development and Guidance Clinic

With an aim to improve care of children with scholastic backwardness as well as rehabilitation of those with physical handicaps, the Child Development and Guidance Clinic was started in 2009. This Clinic provides highly specialized child and adolescent emotional and behavioral support care.

- It takes referrals from consultants and schools from all parts of the city, for children with disorders like cerebral palsy, mental retardation, attention deficit hyperactivity disorder, learning disorders, autistic spectrum disorders, eating disorders, somatising disorders and other emotional and behavioural disorders.
- Includes a neurodevelopmental service for detailed assessment of IQ/DQ by a psychologist and educational assessment and remediation advice by a special educator.
- Expertise is available for physical assessment and rehabilitation by a team of well-trained physiotherapists.
- The Clinic is further supported by easy access to the school of Audiology and Speech language Pathology where OAE, BERA, cochlear implantation and speech therapy are offered.
- As part of our social commitment the clinic team undertakes teacher awareness and training programmes on a regular basis.

Child Guidance Clinic & Physiotherapy Data 2007 - 2009
Pediatrician and Co-ordinator: Dr. Leena Pandit

Clinic Co-ordinator: Dr. Jyoti Shetty, Dr. Arvind Panchandikar

Child Psychologists: Dr. Analpa Paranjape, Ms. Kalyani Karmarkar

Medical Social worker: Contact no. 9657751244

Immunization Service:
- Every day from 9am-4 pm within the Pediatric OPD.
- All vaccines as per the national immunization schedule.
- Optional vaccines recommended by the Indian Academy of Pediatrics.

Immunization Data 2009

![Immunization Chart]

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Count</th>
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<tr>
<td>BCG</td>
<td>2926</td>
</tr>
<tr>
<td>OPV</td>
<td>8001</td>
</tr>
<tr>
<td>DPT</td>
<td>5645</td>
</tr>
<tr>
<td>Hib</td>
<td>1772</td>
</tr>
<tr>
<td>Measles</td>
<td>877</td>
</tr>
<tr>
<td>MMR</td>
<td>1264</td>
</tr>
<tr>
<td>IPV</td>
<td>1972</td>
</tr>
<tr>
<td>Others</td>
<td>375</td>
</tr>
</tbody>
</table>
Helpline no
9604981116

Genetic Clinic

It provides links with services for genetic tests when required, including testing for carrier detection or prenatal diagnosis. Parents of children with multiple malformations and dysmorphic syndromes are given guidance for investigation and management.

Endocrinology Clinic

Established in 2002.

- Offers diagnostic and therapeutic services for patients with growth, calcium & bone and intersex disorders.
- Cares for children with obesity, diabetes mellitus, thyroid and other endocrine disorders.
- Receives referrals of approximately 25-30 new patients per month
- Provides links with the local Diabetic Society.
- Post-doctoral Fellowship in Pediatric Endocrinology in 2010.

Pediatric Endocrinology Clinic 2002 – 2009

Dr Vaman Khadilkar

Dr. Rahul Jahagirdar
Epilepsy and Neurophysiology Clinic

- This clinic is responsible for diagnosis and treatment of a wide range of complex epileptic disorders with expertise in neonatal seizures and epileptic encephalopathy.
- 2 EEG machines and a video EEG facility.
- 80 EEGs per month, including bedside EEGs in the critically ill children the NICU and PICU.
- Facilities for EMG, NCV, VEP available for patients with neurological disorders like myopathies, neuropathies, GBS etc.
- Evaluation and management of epilepsy as per ILAE protocol.
- Management of intractable epilepsy with ketogenic diet in consultation with a dietician with experience in the field.
- Epilepsy Support Group: a forum of parents and caretakers of children with epilepsy meets once a month to discuss the problems they face and their coping strategies.
- Fellowship Programme in Pediatric Epilepsy initiated in 2009.

Epilepsy Clinic - EEGs 2006 – 2009

Dr. Surekha Rajadhyaksha
Dr. Kavita Srivastava
Dr. Shalini Garg

EEG technicians: 2
Contact no : 020-24375182 Ext: 159
Mobile number: 9604714231
Haematology - Oncology Clinic

- This Clinic provides a comprehensive service for the diagnosis and management of childhood hematological disorders and malignancies including leukaemias and solid tumours.
- Expertise exists in the management of histiocytic disorders and myelodysplasias, disorders of haemoglobin synthesis, red cell disorders like thalassemia which includes a transfusion program and chelation.
- Provides links with the city Thalassemia and Cancer Support Groups.

Dr. Vibha Bafna

Dr. Shailesh Kanvinde

HIV Clinic

Started in 2001, the clinic deals with

- Testing of babies and children for HIV including pre and post-test counseling.
- Full investigations, monitoring and treatment of children with HIV and AIDS.
- Support, advice and information to the child, family and carers.
- Training on pediatric HIV infection for doctors & paramedics.
- Shared care with local district general hospitals and pediatricians.
- Provides links with community health services and other support agencies.

Pediatric HIV Clinic 2004 – 2009
Dr. Jitendra Oswal

Nephrology-urology Clinic

Started in 2003, the unit provides a comprehensive inpatient and outpatient service for children with kidney diseases. It has links with Children's Kidney Care Center, St. John's Medical College, Bangalore for patient care & training.

- The unit has expertise for investigation and management of children with acute renal failure, nephrotic syndrome, haemolytic-uraemic syndrome, hypertension, vasculitis, tubular disorders and infants, young children and adolescents with chronic and end-stage renal failure.
- Facilities exist for acute peritoneal dialysis, initiating continuous ambulatory peritoneal dialysis, automated dialysis, hemodialysis, plasmapheresis and kidney biopsy with a minimally traumatic automated gun.
- The Clinic works closely with the urological service providing care and follow-up management of infants and children with complex nephro-urological disorders.
- Patient (parent) information booklets in local vernacular for information about nephrotic syndrome, and commonly performed procedures like MCU, USG and kidney biopsy are available.

Pediatric Nephrology-Urology Clinic 2002 – 2009

Dr. Jyoti Sharma

Pediatric Surgery

It offers neonatal and general pediatric surgery. It provides pre- and post-operative care for conditions of

- Gastro-intestinal tract, including esophageal atresia, ano-rectal abnormalities and diaphragmatic hernia.
- Thoracic surgery including decortication.
- Urology with availability of a cystoscope and neonatal resectoscope.
- Diagnostic and therapeutic bronchoscopy, including foreign body removal with a dedicated pediatric rigid bronchoscope.
- Patent ductus arteriosus ligation in neonates and older children.
- Surgical Oncology.

Pediatric Surgery 2009

Dr. Shashank Shrotriya
Dr. Shreeprasad Patankar

**Paediatric Orthopedics**

Paediatric orthopedic clinic takes care of the orthopedic problems in children from birth to 16 years & includes management of disorders like

- Trauma.
- Congenital malformations like CTEV.
- Developmental disorders like CDH, Perthe's disease.
- Infections like neonatal septic arthritis and osteomyelitis.
- Management of cerebral palsy like contracture release & Botox therapy.

Dr Sandeep Patwardhan

Paediatric Orthopedic Surgeon

**Research Cell**

Dedicated to clinical research, clinical trials are carried out as per ICMR and GCP/ICH guidelines. Team members have been trained in clinical research and data management. Since the first trial was undertaken in 2004, the unit has participated in over 15 clinical trials in the fields of vaccines, hypertension, epilepsy, nephrology and HIV and received grants from various agencies due to the meticulous efforts of a team of research officers.
Patients including neonates are transferred to our facility from a radius of up-to 200 kms. in a specially designed, ambulance which is manned by trained staff and has amongst other equipment, a ventilator.

Contact : NICU 020 24375542  PICU 020-24371116 ext 514

VISION 2020

- Establishing a Pediatric Center of Excellence which would provide teaching and patient care facilities in all pediatric sub-specialities.
- Increasing infrastructure and other facilities to promote increase in intake of students and for training as postgraduates and post-doctoral fellows in Pediatrics.
- Complementing pediatric epilepsy unit by addition of a paediatric neurologist.
- Fully equipped pediatric Hematology-oncology unit.
- Establishing a holistic child rehabilitation center.
- Initiate pediatric Asthma Clinic.
- Initiate a Pediatric Cardiac Care Clinic.
- NICU
  - Volume Guarantee Ventilation
  - Inhaled nitric oxide
- Collaboration with National and International universities for faculty and student exchange programs.
- Community based research.
- Establish an organ retrieval and transplantation center.