

# DMCH SCAN

TOWARDS EXCELLENCE IN MEDICARE & EDUCATION

July - December, 2013

Quality Health Care  
Excellent Medical Education  
Relevant Medical Research  
Latest Technology  
Personal Touch



Departmental Profile  
Radiology

Special Services  
Pharmacy

Focus  
Nuclear Medicine



**Dayanand Medical College & Hospital**  
Ludhiana, Punjab (India)

## Dayanand Medical College & Hospital, Ludhiana

*New College Building coming up.....*



A grand new College building is under construction and will be completed by mid 2014.



### **PRINCIPAL'S MESSAGE**

On behalf of faculty, administrators and staff of Dayanand Medical College & Hospital, I feel greatly privileged and honoured to extend my warmest congratulations to our revered Chairman Emeritus - Dr Brijmohan Lall Munjal on his 90th birthday falling on 1st July, 2013.

This year, DMCH added a new feather to its cap by starting in-house Hospital Pharmacy from 1st April onwards. The pharmacy is running through recently introduced Hospital Information System (HIS) which helps in purchase, stock maintenance and issue of medicines. A new Hospital drug formulary has been prepared. Ongoing monitoring of the services will continue in a meticulous and stringent manner to ensure smooth and efficient services related to procurement, storage, dispensing and audit of medicines.

The institution also had distinction of offering a platform for successfully launching of 'Environment Sound Management of Medical Wastes' project by five-member United National Industrial Development Organization (UNIDO) team in five states including Punjab.

To extend our tradition of providing quality-health care along with a comprehensive patient-centric approach, dedicated 'Pain Management Clinic' was also started in the hospital to relieve our patients from the distress of chronic and acute pain.

With new admissions completed, we feel excited to welcome our new batch of MBBS students and assure them to be nurtured with care at DMCH.

**Dr Daljit Singh**



# Events January-June 2013



## 'Environmentally Sound Management of Medical Wastes' project of UNIDO

United National Industrial Development Organizations (UNIDO) team successfully launched "Environmentally Sound Management of Medical Wastes" in the state of Punjab from DMCH. The project is related to the Stockholm Convention held in 2006 on "Reduction of Persistent Organic Pollutants (POPs)" and will be implemented in the five states of India, viz. Punjab, Gujarat, Karnataka, Maharashtra and Orissa.



## World Kidney Day

To raise awareness about the importance of kidneys in health and to reduce the frequency and impact of kidney disease, DMCH celebrated World Kidney Day on 14th March, 2013 by organising a seminar on 'Recent Advances in Acute Kidney Injury' followed by poster competition and role play by the students in the OPD complex.

## CME on Total Burn Care



Department of Plastic Surgery organized a CME on "Total Burn Care" on 9th and 10th February, 2013. The scientific sessions enlightened the participating delegates about various issues focusing on burn

epidemiology, emergency aid for burn disasters, new advances in burn treatment, skin alternative materials, rehabilitation and plastic surgery for burn patients.



## International Thalassemia Day

Commemorating 22nd International Thalassemia Day and World Red Cross Day, Department of Pediatrics and Transfusion Medicine jointly organized '14th Annual Medicos Voluntary Blood Donation Camp' on 16th May, 2013, in which 250 units of blood were collected.

## Indian National Brain Bee Quiz-2013

Department of Neurology in collaboration with a non-governmental organization organized 'Indian National Brain Bee Quiz-2013' on 20th and 21st April, 2013. The contest aimed at motivating young boys and girls to learn about the brain and inspire them to consider careers in the neurosciences. The participants comprised of the individual winners of the regional rounds of the Brain Bee Quiz conducted at 13 centres across the country.



Technical advent and advancement in the technology has changed the position of Radiology tremendously. The so called “shadow chasers” of the yesteryears are among most indispensable people in patient management today. In last couple of decades Radiology has grown by leaps and bounds with ever growing new technological innovations that have completely transformed the position of Radiology in such a way that it has become the most desired residency program across the world.

### The Torch bearers

The department was started as a small unit in the year 1966 under the charge of Dr DS Singh followed by Dr SC Jhaver and Dr YP Bhandari. The unit developed into a full-fledged department under the able guidance of Dr Rekha Goyal, who served the institution from 1980 till 2006. Thereafter, Dr Kavita Saggar has been the guiding force since the year 2006 and the present ultramodern department has taken shape under her guidance. Today the department is equipped with high end CT and MRI machines along with one of the best sonology and radiography equipment. Besides the patient services, best efforts have been continuing for the post graduate education and research work which is evidenced by the well trained residents as well as the research publications from the department.

### Services Provided

The department is ISO 9001-2001 certified and offers a wide array of radiological services encompassing both diagnostic as well as interventional aspects.

#### Radiography

The department is equipped with Digital Radiography systems which include both Direct as well as Computed Radiography. Portable radiography machines are being routinely used for sick patients with portable C- Arm being used in Operation Theatres. The radiographic services being offered include

- ▲ Digital radiography
- ▲ Barium and contrast procedures
- ▲ Intravenous pyelography
- ▲ Myelography
- ▲ Hysterosalpingography
- ▲ Mammography
- ▲ DEXA (bone density scan)
- ▲ Orthopentogram

#### Ultrasonography

The Department of Radiodiagnosis is equipped with four state-of-art ultrasound machines which provide high resolution 2D, 3D & 4D imaging, doppler studies and Elastography.

#### Computed Tomography

The Department is equipped with 128 slice high resolution multi detector CT which allows rapid and precise imaging.

Special studies include-

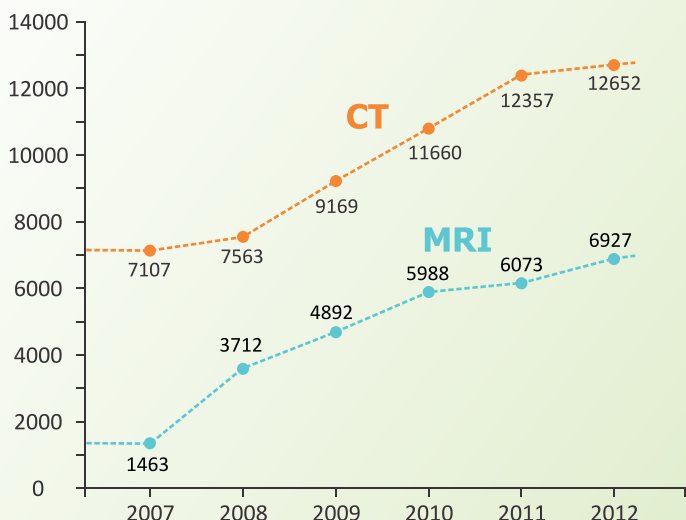
- ◆ CT angiography
- ◆ Perfusion CT
- ◆ Multiphasic CT
- ◆ CT Urography
- ◆ CT Enterography

- ◆ Virtual bronchoscopy
- ◆ Virtual colonoscopy

#### MRI

The department is equipped with 1.5 Tesla MRI scanner which offers advanced MR imaging.

- ◆ Diagnostic Neuroradiology (Including spectroscopy, perfusion imaging, volumetry and CSF flowmetry).
- ◆ MRI abdomen and Pelvis : Dedicated organ imaging with use of advanced sequences in disease detection and staging
- ◆ Musculoskeletal Imaging: Extremity imaging with dedicated surface coils
- ◆ MR Angiography



### Faculty

**1st Row Sitting:** Dr Chandan Kakkar (Asstt. Prof), Dr Archana Ahluwalia (Professor), Dr Parambir Sandhu (Professor), Dr Kavita Saggar (Professor & Head), Dr Ritu Galhotra (Asstt. Professor), Dr Kamini Gupta (Associate Professor), Dr Siddharth Prakash (Asstt. Professor)

**2nd Row Sitting :** Dr Amarinder Singh, Dr Satwant Singh, Dr Shivam Sahni, Dr Navdeep Singh (Sr. Resident), Dr Anurag Arora, Dr Ramandeep Singh (Sr. Resident), Dr Deepak Kaushal.

**3rd Row Standing :** Dr Amandeep Joshi, Dr Ankur Attri, Dr Rajdeep S. Chhina, Dr Gurjinder Singh, Dr Harmeet Kaur (Sr. Resident), Dr Parveen Jassi, Dr Tanica Jain, Dr Gaurav Chauhan, Dr Sulabh Puri, Dr Avik Banerjee.



# RADIOLOGY



DXA



Ultra Sound



OPG



Mammography



Fluoroscopy



Direct Digital Radiography X-Ray



1.5 Tesla MRI



128-slice CT SCAN

## Interventional Procedures

A wide array of ultrasound and CT guided diagnostic and therapeutic procedures are carried out in the department.

## Non vascular Procedures

- ◆ Fine needle aspiration / Biopsies
- ◆ Percutaneous drainage including PTBD and PCN

## Vascular Procedures

- ◆ Angiography with embolization for therapeutic purposes
- ◆ Stent Placement
- ◆ TIPS (transjugular intrahepatic porto-systemic shunt)

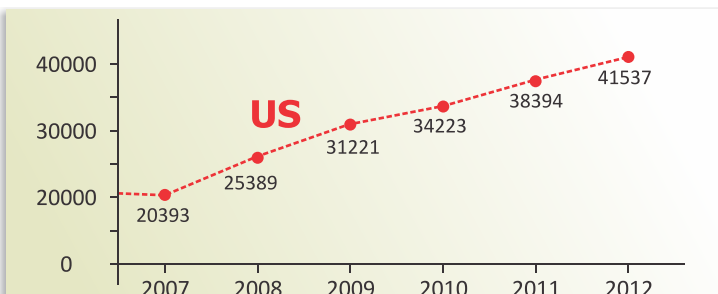
## Academic Advancement

Postgraduate teaching , interdepartmental and follow up meets are a part of departmental curriculum. The residents and faculty are guided and encouraged to pursue their research interests. The department has been responsible for laying a strong foundation stone for the resident radiologists over past twenty five years .

B Sc Radiography course has been instituted from the year 2012.

## Future Prospects:

- ◆ 3T MRI
- ◆ PET CT
- ◆ Radiofrequency ablaters for tumour therapy
- ◆ Digital Subtraction Angiography
- ◆ Robotic arm for CT guided procedures to improve precision
- ◆ Integrated PACS with Hospital Information system
- ◆ NABH Accreditation.





DMCH started its own in-house pharmacy from April 1, 2013 with aim of providing quality drugs at affordable prices to the patients. The Department consists of Main Pharmacy and 13 stores at different parts of the hospital including Casualty Pharmacy and Critical Care Pharmacy.

The pharmacies are manned by nearly 100 qualified pharmacists working around the clock.

For the convenience of patients, outlets are located at every floor of the hospital. The pharmacy is running through recently introduced Hospital

information System (HIS) which helps in purchase, stock maintenance, issue and sale of medicines. Medical consumables are also available for sale over the counter. All the pharmacy stores (except OPD store) run 24x7. The Pharmacy services are in compliance with NABH requirements. The drugs are stored as per guidelines and cold chain is maintained at all levels.

The hospital drug formulary has been established and made available in all the departments. A pocket sized formulary for all prescribing doctors has been made available. New medicines are procured as per recommendations and all available items are reviewed from time to time.

Dr Sandeep Kaushal and Dr HS Dhooria are Medical Officers in-charge of DMCH pharmacy. Two separate committees are functioning as Purchase Committee and Formulary Committee, which look into the functioning of the pharmacy under the chairmanship of Medical Supdt. Dr Ashwani Chaudhary.

### Facilities :

- ▲ Quality medicines on cash/credit (for empanelled patients)
- ▲ Quality Consumables on cash/credit (for empanelled patients)
- ▲ Dispensing done by qualified personnel
- ▲ Medicines stored as per manufacturer and regulatory guidelines
- ▲ Advice regarding use of medicine provided by trained persons
- ▲ Computerized billing



Once Hospital Information System (HIS) is fully operational, it will allow nursing staff to order the medicines on the ward computer and subsequently delivery of medicines along with consumables will be possible at patient's bed side.





# Focus

## Nuclear Medicine Services

Nuclear medicine is a medical specialty that is used to diagnose and treat diseases in a safe and painless way. In nuclear medical diagnostics, small amount of radioactive substances are used to image organ functions noninvasively. It is concerned with physiological and pathological alterations in cellular function and often, is a more sensitive indicator of cellular abnormalities than other imaging techniques.

Methods of nuclear medical routine diagnostics are today used most frequently for examinations of the heart, thyroid gland, skeleton, kidneys, lungs and brain as well as of oncological and inflammatory diseases. These scans are painless and have no side effects. The amount of radiation exposure is generally less than that of an X-Ray exposure.

Tomographic images (SPECT-single photon emission computed tomography) can assist in localization of activity within an organ.

Dr Dinesh Kaushal (Consultant, Nuclear Medicine) informed that in nuclear medical theranostics, low dose I-131 therapy is given in thyrotoxicosis, high dose I-131 is used for post thyroidectomy thyroid cancer patients, radionuclide synovectomy for the treatment of various types of arthritis and I-131 MIBG is used for neuroendocrine tumors.

### Diagnostic facilities available :

- ▲ SPECT myocardial perfusion scintigraphy
- ▲ Bone Scan
- ▲ Renal Function Study with GFR Evaluation
- ▲ Gastroenterology Imaging
- ▲ Thyroid Uptake and Scan
- ▲ Parathyroid Scan
- ▲ I-131 Whole Body scan
- ▲ Brain SPECT
- ▲ Tumor imaging
- ▲ Lung Perfusion Scintigraphy
- ▲ Other Imaging - Testicular scan, Gallium-67 scan for infection, Lymphoscintigraphy.

### Therapeutic facilities available :

- ▲ Low dose Iodine-131 therapy for thyrotoxicosis
- ▲ Samarium-153 therapy for bone pain palliation



### Mission

Our aim is to be foremost provider of diagnostics imaging services where the highest quality of service is supported by leading edge technology, education and teamwork. In future we plan radionuclide I-131 therapy wards for thyroid cancer, I-131 MIBG therapy for neuroendocrine tumors, radiation synovectomy, and molecular imaging using PET-CT integrated with radiotherapy planning in our upcoming oncology centre.

## STROKE

*Then*

### POSITIONS

- ▲ **Dr Daljit Singh** (Pediatrics): Executive Board Member of Indian Academy of Pediatrics (IAP) for 2013.
- ▲ **Dr Harmesh Singh Bains** (Pediatrics): Zonal Co-ordinator of IAP PALS programme and Member, Neonatal Research Committee of NNF for 2013-2014.
- ▲ **Dr Anu Sharma, Dr Seema Gupta & Dr Anshu Soni** (Anatomy): Vice President and Executive Members respectively of North States Chapter of Anatomical Society of India.
- ▲ **Dr Vivek Gupta** (Cardiac Anaesthesia): Member, North Zone for ECMO Society of India.



*2003*

### OVERSEAS PRESENTATIONS/VISITS

- ▲ **Dr Rajoo Singh Chhina** (Gastroenterology): International Healthcare Summit organized by Royal Society of Medicine, London.
- ▲ **Dr Deepinder Chhina** (Microbiology): St. Marks Hospital, UK.
- ▲ **Dr Praveen C Sobti** (Pediatrics): Symposium on 'Global Iron Summit' held at Copenhagen, Denmark.
- ▲ **Dr Gagandeep Singh** (Neurology): 30th International Epilepsy Congress, Montreal, Canada.
- ▲ **Dr PL Gautam** (Anaesthesia): 'Fellowship in Liver Transplant Anaesthesia' from Western University of Ontario, Canada.
- ▲ **Dr Prabhdeep Singh Nain** (Surgery): 22nd World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists, Bangkok, Thailand.
- ▲ **Dr Deepak Bhat** (Pediatrics): European Society of Pediatric Infectious Disease (ESPID-2013) at Italy.
- ▲ **Dr Omesh Goyal** (Gastroenterology) and **Dr Amit Bery** (Medicine): APASL Liver Week-2013, Singapore.
- ▲ **Dr Rupesh Chaudhary** (Psychiatry): 3rd joint International Conference of the Hong Kong College of Psychiatrists and the Royal College of Psychiatrists, UK.
- ▲ **Dr Kamal Arora** (Pediatrics): Pediatric Academic Society, Washington, USA

### GUEST LECTURES

- ▲ **Dr Inderpal Singh Grover**, Consultant Geriatrician & Physician, Hengoed, UK delivered talk on 'Scope & Future of Geriatric Medicine' to the Faculty and students.
- ▲ **Dr VP Singh**, Former Additional Professor, AIIMS, New Delhi delivered a guest lecture on 'What is new in Neurosurgery?'
- ▲ **Dr B L Meel** from South Africa sensitized the medicos about the importance of proper documentation of death in his guest lecture on 'Death Certification'.
- ▲ **Dr Malla Bhaskara Rao**, Professor at National Institute of Mental Health & Neurosciences, Bangalore delivered guest lecture and conducted a live workshop on Epilepsy Surgery during his week long visit to DMCH.
- ▲ **Dr (Prof.) Victor Rosenthal**, President, International Nosocomial Infection Control Consortium (NICC) from Argentina delivered a lecture on 'Hospital Acquired Infections and Effective Intervention'.
- ▲ **Dr Pankaj Arora**, Consultant, Emergency Medicine from Australia delivered a lecture on 'High Risk Orthopaedic Emergency'.



## UNIT

*Now*



*2013*

- ▲ **Dr Brinder Vij**, Associate Professor in Department of Neurological Centre for Pain from Cleveland Clinics, USA delivered a lecture on 'Pain: A symptom or Disease'.
- ▲ **Dr Jaspreet Sandhu** from Department of Urology, Memorial Sloan-Kettering Cancer Centre, USA delivered a guest lecture on 'Contemporary Surgical Management of Benign Hypertrophy of Prostate'.
- ▲ **Dr Baljinder Kapoor** from Cleveland Clinic, USA delivered a lecture on 'Transcatheter Management of Portal Hypertension-TIPS'.
- ▲ **Dr Rajiv Mirchia**, Former Fellow of Sankara Nethralaya, Chennai spoke on 'Latest Advances in Cataract Surgery'.
- ▲ **Dr Balhinder S Brar** from St. Vincent's Hospital, Toledo, Ohio, USA gave a lecture on 'Acute Renal Failure-Recent Advances in Diagnosis and Management'.

### A MATTER OF PRIDE

- ▲ **Sh Sunil Kant Munjal**, President, DMCH Managing Society awarded the prestigious 'Wall of Honour' for the commendable work done in healthcare in Punjab at International Healthcare Summit organized by Royal Society of Medicine, London.

### AWARDS/PRIZES

- ▲ **Dr Sunil Katyal** (Anaesthesia) : FICA by Indian College of Anaesthesiologists (ICA)
- ▲ **Dr Praveen C Sobti** (Pediatrics) : "Honorary Mayor- President" of the city of Baton Rouge, Parish of East Baton Rouge.

### HONOURS / ACHIEVEMENTS

- ▲ **Dr GS Wander** (Cardiology): Nominated as member of the Board of Studies in Medical Sciences (Postgraduate) of Baba Farid University of Health Sciences, Faridkot.
- ▲ **Dr Anju Grewal** (Anaesthesia): Chief Editor of the Journal of Anaesthesiology Clinical Pharmacology (JOACP), a journal of the Research Society of Anaesthesiology Clinical Pharmacology.

- ▲ Drug Trial Ethics Committee of DMCH is among the first 70 Ethics committees so far registered with Drug Controller General of India (DCGI), New Delhi.

### ADIEU



**Dr Vineeta Malhotra**, Former Professor and Head of Pathology, after 33 years of distinguished service.

## Selective uterine arterial embolization

DMCH is the first institution in the region to extend its facilities for Uterine artery embolization (UAE) in Punjab since 2005. Till date, 130 embolizations have been done for various obstetrical and gynecological indications with high success rate. Uterine artery embolization is a minimally invasive treatment wherein doctor uses a slender, flexible tube (catheter) to inject small particles (embolic agents) into the uterine arteries. It is done under local anesthesia with fluoroscopic guidance through per cutaneous femoral artery catheterization. The procedure is required in cases of Intractable postpartum hemorrhage, cervical ectopic pregnancy and uterine arteriovenous malformations. Recently, the procedure is advocated for the use of reduction in the size of the fibroids to make it surgically operable or to control uterine bleeding in patients with fibroids who are medically unfit for surgery. It has a success rate of 90-95% in fibroids and approximately 100% in obstetrical bleeding.

## Nucleic Acid Amplification (NAT) Testing

DMCH pioneered a new era in blood safety by becoming the first hospital in Punjab to implement Individual Donor Nucleic Acid Amplification Testing (ID-NAT) for blood screening. This is an advanced test that detects the genetic material of viruses like HIV-1, HCV and HBV in the donor.



## Advanced Phacoemulsification Machine

The world's most advanced phacoemulsification machine for sutureless cataract surgery is available for the first time in Ludhiana. It is equipped with a special patented technology 'Ozil IP' with Torsional phaco which enables a torsional movement of the phaco tip as compared to traditional phaco. It increases surgical efficiency with reduction of phaco energy without compromising the results, lesser heat generation and less irritating fluid being used during surgery. All this keeps the eye in a more natural state.



## Bariatric Surgery

DMCH provides super-speciality weight loss treatment with advanced medical technology and surgically by Bariatrics Specialists. Laproscopic bariatric surgery procedure leads to 50-70 percent extra weight loss.

Surgical Treatment options available include :

- Laparoscopic Adjustable Gastric Banding
- The Rouxeny Gastric Bypass – The Gold Standard procedure
- Laparoscopic Sleeve Gastrectomy
- Mini Gastric bypass

Multi-disciplinary team of Surgeon, Endocrinologist, Nutritionist, Medical Physician, Anaesthesia Team and Clinical Psychologist collectively manages the patient before and after Surgery.

## Pain Management Clinic

Pain Management Clinic was recently started by the Department of Anaesthesia and is offering a comprehensive range of services for patients suffering from acute or chronic pain. The purpose is to provide safe, state-of-the-art care to patients in pain by promoting strong clinical service, education, and research. Both indoor and outpatient cases are covered.





## Treating Congenital Heart Diseases

During the last four years, Hero DMC Heart Institute has operated approx. 650 cases of congenital heart disease under the National Rural Health Mission (NRHM) Programme.

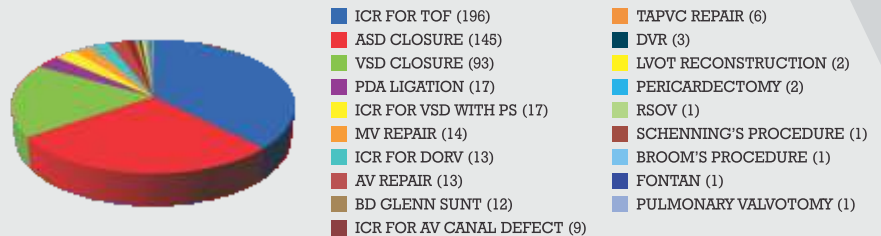
The youngest patient was 3 days old requiring permanent pacemaker.

Another young baby less than 10 days old had successful Patent Ductus Arteriosus (PDA) closure.

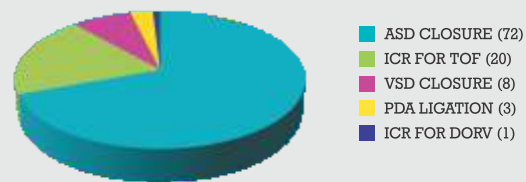
Three patients weighing between 3 kgs and 3.5kgs successfully underwent Ventricular Septal Defect (VSD) Closure, AV Canal Defect Repair and Total anomalous pulmonary venous connection (TAPVC) repair.

The following bar diagram shows various types of defects repaired in the hospital.

### CONGENITAL HEART DISEASE BELOW 14 YEARS AGE



### CONGENITAL HEART DISEASE ABOVE 14 YEARS AGE



## Endoscopic Ultrasound Machine

Department of Gastroenterology at DMCH has entered a new era in the field of diagnosis and treatment of Gastrointestinal, Gall Bladder, Biliary and Pancreatic diseases by acquiring the latest Pentax Endoscopic Ultrasound system. It comprises a Hitachi high resolution ultrasound machine with scanning frequencies of 5–12 MHz. It also has two Pentax endoscopic machines including a radial scanning endoscope for diagnosis, and a linear electronic array endoscope for endoscopic surgeries.

## Thalassemia Day Care Centre (TDCC)

Thalassemia unit at DMCH was established in 1999 to deliver quality care to thalassemia patients in Punjab & surrounding states. It presently caters to the needs of 300 thalassemia children. The children registered at TDCC received blood at subsidised rates without any bed charges. Investigations are also done at reduced costs.

Children receive safe blood screened by Nuclear acid testing (NAT). They are regularly monitored for growth and development, iron overload complication and transfusion transmitted infections.

Thalassemic children are looked after by a multispeciality team comprising of Paediatrician, Cardiologist, Endocrinologist, Gastroenterologist, Ophthalmologist, Gynaecologist, Dentist & Psychologist.

The unit also offers antenatal screening, study of DNA mutations and bone-marrow transplantation in collaboration with major referral centres in India. Various NGOs like support treatment of many children are involved in fund raising, creating awareness and organizing voluntary blood donation camps.

### Current Chelation Therapy

|                        |     |
|------------------------|-----|
| Desferoxamine          | 10  |
| Desferasirose          | 24  |
| Kelfer                 | 103 |
| Desferoxmaine + Kelfer | 5   |
| Desferasirox + Kelfer  | 6   |
| Defrijet               | 16  |
| Defrijet + Kelfer      | 12  |

## Research Centre



A new thrust has been given to clinical research with the establishment of a Research and Development Centre. All research activities including the Ethics Committee are being co-ordinated through the centre. New research projects that are approved by the Institutional committee will receive financial grants.

## Intensive Care & Emergency

- ▲ DMCH is the only institution in North India having an entire floor of ICUs with about 92 beds. Including these, there are 14 different ICUs in the hospital with a total of 197 beds.
- ▲ To cater to emergency & trauma cases, DMCH has a well-equipped 90-bedded Emergency area including 20 bedded Emergency ICU manned round the clock by consultants, supported by well trained medical and nursing staff. This is supplemented by 4 Emergency Operation Theatres.

## International Collaborations

- ▲ DMCH collaborates with Rubin Institute, USA under the project 'Operation Walk Maryland' to provide advanced orthopaedic care to patients with disabling arthritis. Sessions have been held in 2012 and 2011 in which about 130 poor patients have benefitted with free joint replacement and subsequent followup with rehabilitation. The next session is scheduled in January 2014.
- ▲ Department of Plastic Surgery collaborates with an American based NGO for cleft lip & palate children under the 'Smile Train' project. Over 320 free surgeries have been done so far.

## MOU with Imperial College, UK

Memorandum of Understanding was executed between DMCH and Imperial College, UK for developing long-term bilateral co-operation between two medical institutions in medical education, research and clinical expertise through teacher/student exchange, enrolment of faculties in doctoral (PhD) courses and post doctoral research programmes.



## Honorary visiting Professors to DMCH



**Dr Inderbir Singh Gill**  
Professor and Chairman  
of Urology,  
University of Southern  
California, USA



**Dr Harpal Paul Khanuja**  
Director, Hip and Knee  
Replacement  
The Rubin Institute for  
Advance Orthopaedics,  
Baltimore, USA



**Dr Ajay Rajan Gupta**  
Consultant Orthopaedic  
Surgeon,  
North West London NHS  
Trust, London.

## In the pipeline.....

Many big projects have been initiated recently:

1. A New College Building designed for an intake of 150 students annually, along with a modern new girls hostel in our college campus.
2. A State-of-Art comprehensive and complete Cancer Centre with Radio-therapy, Medical Oncology and Cancer Surgery along with all ancillary services and diagnostics including PET Scan.
3. A new Nursing College Campus at Malikpur, a few kilometers from present college.
4. Preparation for accreditation with NABH i.e. National Accreditation Board for Hospitals.
5. Installing HIS in the institution which will include the University Management System for the college.



## Courses

The medical academic program at DMCH includes –

**MBBS** : 70 Seats

**MD/MS** : Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology, Medicine, Surgery, Obstetrics & Gynaecology, Pediatrics, Dermatology, Ophthalmology, Otolaryngology, Orthopedics, Anesthesiology, Radiodiagnosis, Psychiatry and Community Medicine, Immunohaematology & Transfusion Medicine. (72 seats)

**Diploma** : DA (Anesthesia), DCH (Pediatrics), DLO (ENT), DGO (Obst & Gynae). (15 seats)

**Super-speciality Courses** : DM (Cardiology), DM (Gastroenterology), DM (Neurology), DM (Nephrology), MCh (Plastic Surgery), MCh (Urology), MCh (Cardiothoracic Surgery), MCh (Neuro Surgery). (14 seats)

**Nursing** : BSc (100 seats), MSc in Medical Surgical Nursing, Psychiatric Nursing, Pediatric Nursing, Obstetrics & Gynae Nursing, Community Health Nursing (42 seats). Diploma in Critical Care Nursing and Cardiothoracic Nursing.

**Paramedical** : BSc in MLT, Cardiac Technology, Radiology Technology & OT Technology (42 seats)

DMCH has Fellowship program of the Indian Society of Critical Care Medicine and in Pediatric Critical Care under the aegis of IAP ISCC. Over 1100 post-graduate and under-graduate medical and nursing students are trained annually.

**Welcome to new MBBS students and introduction with faculty.**



## Induction Programme

Training and development programmes are an integral part of DMCH as an organization.

All new entrants to the institution undergo compulsory induction programme which is much more than a skills training. They are given an opportunity to establish clear foundations and expectations in terms of ethics, integrity, our mission, goals, values and philosophy.

Vital subjects like code blue (CPR), code red (Fire), code yellow, end of life care, blood transfusion, hospital infection control etc. are dealt with by experts in these respective fields. This establishes good professional practices, health and safety rules and gives guidelines for clear methods, timescales and expectations.



## Pentahead Microscope **New**

Pentahead Microscope (Nikon Eclipse Ci) in the Department of Pathology incorporates innovative optical and structural design ideas facilitating consultation by five observers during reporting, important meetings and discussions at the same time. It can also be attached to an LED TV for high quality images which allow group discussion.

# Campus Blitz

## Annual Convocation 2013

Amidst an ambience of solemnity and dignity, Annual Convocation of Dayanand Medical College & Hospital, Ludhiana was held and medical graduates of the MBBS Batch 2007 were awarded degrees. Chief guest Dr K Radhakrishnan, Director and Senior Professor of Neurology from Sree Chitra Thirunal Institute of Medical Sciences & Technology delivered the Convocation address and awarded merit certificates and prizes for academic excellence to students of various batches.



## Smash-2013

The 48th Annual Sports Meet of DMCH held on 28th Feb, 2013 for medical and nursing students evoked a lot of passion and enthusiasm among the students and the faculty as well.



## Ectopia-2013

The annual inter-batch cultural festival was held on 6th-8th February, 2013 with gaiety and fervour. Students of various MBBS batches competed with one another for top honours in various talent hunt competitions.





## Basic Course MCI Workshops in Medical Education Technologies



The capacity building workshops in Medical Education Technology (MET) have enabled almost 100% of the DMCH faculty to be trained by the Regional Centre through the Medical Education Unit and certified by Medical Council of India (MCI).



### Sitting (L to R)

1st Row : Dr Neena Sood (Pathology), Dr Hemant Chopra (ENT), Assistant Dean Academics Dr Sandeep Kaushal (Pharmacology), Medical Supdt. Dr Sandeep Puri (Medicine), Principal Dr Daljit Singh (Pediatrics), Dean Academics Dr Rajoo Singh Chhina (Gastroenterology), Dr Alka Dogra (Dermatology), Dr Promila Jindal (Obstetrics & Gynae), Dr Sunit Katyal (Anaesthesia)

2nd Row : Dr Jaspal Singh (Surgery), Dr Ranjive Mahajan (Psychiatry), Dr Kavita Saggarr (Radiology), Dr Amarjit Kaur (Transfusion Medicine), Dr Anurag Chaudhary (Community Medicine), Dr Vidushi Gupta (Physiology), Dr Gautam Biswas (Forensic Medicine)

### Standing (L to R)

1st Row : Drs Saloni Goyal, Mehak Singla, Gurkamal Kaur Toor, Shaika Nauria, Neeru, Sahiba Bedi, Sumiti Verma, Pinky, Rajveer Kaur, Amarjeet, Navneet Kaur Panesar

2nd Row : Drs Vini Singh, Satjeet Kaur Deol, Nitika, Sukhamdeep Kaur, Anupriya, Jasleen Kaur, Gurpreet Kaur, Navjot Kaur

3rd Row : Drs Jotdeep Singh, Anuj Mahajan, Mayank Batra, Rishu Garg, Anirudh Jindal, Robin Jindal, Ankit Chalia, Devan Mittal, Ajay Singh

4th Row : Drs Kanwarpreet Singh Dhami, Harsimran Singh Gogia, Praful Tiwari, Anubahv Sood, Vikas Lakha, Gautam Gupta, Ajay Pal, Ankit Poonia

5th Row : Drs Kashish Goyal, Ashish Pal, Gursharan Singh Gill, Amandeep Singh, Dharamvir, Manjyot Bajwa, Arpit Garg, Daljit Singh, Rishab Garg

For memories sake....

# DAYANAND MEDICAL COLLEGE & HOSPITAL, LUDHIANA, PUNJAB

## SPECIAL PATIENT CARE FACILITIES & SERVICES

### SPECIALITIES

|                        |   |   |  |
|------------------------|---|---|--|
| <b>ANAESTHESIOLOGY</b> | Digital Anaesthesia Work Stations, Ultrasound guided Regional Anaesthesia techniques, Patient controlled analgesia, Acute and Chronic Pain Management Services, Round the Clock Resuscitation Services, Critical Care   | <b>SURGERY</b>                                      | Laparoscopic Surgery, Surgical ICU, World Class Modular OT's   |
| <b>DENTAL</b>          | Specialized Bridge Work, Implantation, Orthodontics   | <b>OBST &amp; GYNAE</b>                             | Laparoscopic & Hysteroscopy Gynae Surgery, Non descent vaginal hysterectomy, Infertility Treatment, HPV/Pap Smear/Colposcopy with LEEP for Cancer Cervix, Institutional Free Family Welfare Services, Free normal vaginal delivery for poor patients   |
| <b>DERMATOLOGY</b>     | Radiofrequency Ablation, Allergy Testing, Cryotherapy, Full Body PVA Unit, Blend technique for hair removal, Punch Grafting, Latest Chemical Peels, Skin biopsy, Pulse therapy for vesiculobullous & collagen disorders   | <b>ORTHO PAEDICS</b>                                | Spine Surgery for fixation with Rods and Plates Arthroplasty for Hip, Knee, Shoulder & Elbow Replacement Comprehensive Diabetic Foot Management Congenital Deformity Correction  |
| <b>LAB SERVICES</b>    | Complete Automated Biochemistry Lab, Radio Immunoassay Lab, Automated Haematology Services, IMX, Automated Electrophoresis, Advanced HIV Lab, Bactec Culture Facility, PCR, Automated Haematology Services, Automated Coagulation Profile and Electrophoresis along with immunofluorescence and immunohistochemistry facilities, Automated ELISA Facility, Fluorescent Microscopy | <b>PEDIATRICS</b>                                   | Advanced Nursery Care with ultra modern facilities, Well equipped Pediatric ICU Pediatric Haemato Oncology Section<br><i>Speciality Clinics</i> : Child Welfare Clinic, Gastroenterology Clinic, Asthma Clinic, Epilepsy and Cerebral Palsy Clinic, Clinic for adolescents & behaviour disorders in children |
| <b>ENT</b>             | Microsurgery of Ear, Endoscopic Surgery of Nose and Sinus, Microsurgery of Larynx, Head & Neck Surgery, Speech therapy and Hearing Rehabilitation Services, Vestibular Services and Vertigo Assessment  | <b>PHYSIOTHERAPY</b>                                | Exercise programme for Ortho and Neurological patients, Special rehabilitational programmes for Stroke and Trauma Patients, Occupational Therapy Cerebral Palsy Clinic   |
| <b>EYE</b>             | Advanced Vitreoretinal Surgeries, Phaco, Glucoma & Squint Surgeries, Medical Retina & Lasers, Photo Dynamic Therapy, Computerised Perimetry, Corneal Grafting, Digital FFA  | <b>RADIO DIAGNOSIS</b>                              | 1.5 Tesla MRI scan, 128 Slice CT scan, 2-D, 3-D & 4-D Ultrasound & Colour Doppler, DXA Bone Densitometry Digital X-Ray & Mammography, Interventional Radiology Procedures  |
| <b>MEDICINE</b>        | Critical Care Unit & Medical ICU, Rheumatology Service, Emergency Medicine Services, HIV Clinic   | <b>IMMUNOHAEMATOLOGY &amp; TRANSFUSION MEDICINE</b> | Enhanced Chemiluminescence Immunoassay (Virtos Eci) and 4th Generation Elisa, Gel Technique, Single Donor Platelet & Plasma Apheresis, Therapeutic Plasma Exchange Cryoprecipitate and Washed RBCs   |
| <b>PSYCHIATRY</b>      | De-addiction, Child Psychiatry, Family & Marital Counseling   | <b>TRAUMA</b>                                       | State-of-art services for multiple injuries  |

### SUPER SPECIALITIES

|                |                                   |   |                 |                                      |   |
|----------------|-----------------------------------|---|-----------------|--------------------------------------|---|
| <b>MEDICAL</b> | Endocrinology<br>Gastroenterology | Intensive Control of Diabetes & Hormonal Disorders<br>Endoscopy, Colonoscopy, ERCP, Double Balloon Enteroscopy, Capsule Endoscopy, High Resolution Manometry with Impedance, Argon Plasma Coagulation(APC) Edophageal PH Metery Fibroscan Malabsorption Tests | <b>SURGICAL</b> | Neurosurgery                         | Transphenoid Excision of Pituitary Tumor, Spinal Instrumentation, Micro Discetectomy Artificial Cervical Disc Replacement                                   |
|                | Nephrology                        | Haemodialysis/CAPD, Continuous Venovenous Dialysis (CVVH & CVVHD)   |                 | Pediatric Surgery<br>Plastic Surgery | Specialised Surgery of Neonates<br>Cosmetic, Hand & Reconstructive Surgery, Peripheral Vascular Injury, Facio Maxillary Trauma, Laser Therapy and Burns ICU |
|                | Neurology                         | Stroke ICU, NCV/EMG, Digital EEG, EEG Telemetry, Tilt Test, Neuropsychology, Neuro-Rehabilitation Day Care Services   |                 | Urology<br>GI Surgery                | Endourology, PCNL, Oncourology, Renal Transplant, ESWL<br>Specialised Surgery of Hepato-Biliary, Pancreatic & Digestive Tract                               |
|                | Oncology<br>Pulmonary Medicine    | Pulmonary Critical Care Unit, Pulmonary Lab (PFT)<br>Bronchoscopy Sleep Lab, NIV Unit, DOTS-Tuberculosis Centre   |                 | Surgical Oncology                    | Specialised Cancer Surgery  |

### UNIT : HERO DMC HEART INSTITUTE

- ➔ Echo, TMT, Carotid Doppler
- ➔ Coronary, Renal, Cerebral, Peripheral Angiography and Angioplasty
- ➔ Single Chamber, Dual Chamber and Biventricular Pacemaker
- ➔ Beating Heart Surgery, Valve Replacement, Adult Congenital Surgery
- ➔ Aneurysmectomy and Reduction Ventriculoplasty
- ➔ Executive Health Check-Up Clinic



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#### HELP LINES

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