



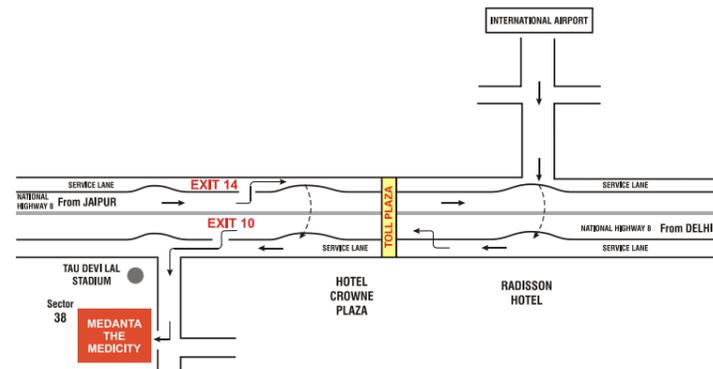
## MEDANTA INSTITUTE OF LIVER TRANSPLANTATION AND REGENERATIVE MEDICINE

*...Liver health for all*



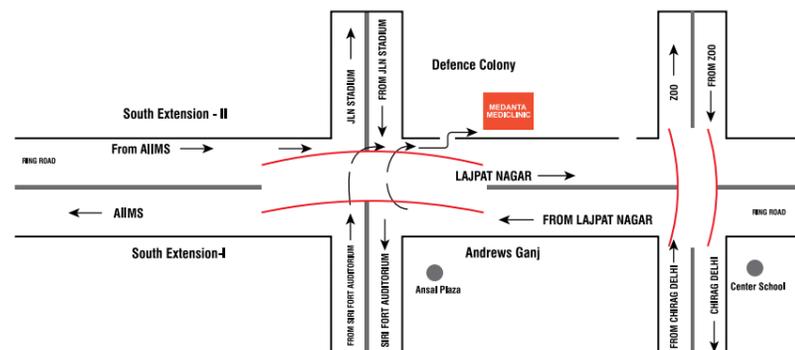
### MEDANTA-THE MEDICITY

Sector 38, Gurgaon-122 001 (Delhi NCR) Haryana, India  
Tel: +91 124 4141 414 Fax: +91 124 4834 111



### MEDANTA MEDICLINIC

E 18, Defence Colony New Delhi, India  
Tel: +91 11 4411 4411 Fax: +91 124 2433 1433



For consultation, timings are given below:

Liver, Biliary Surgery & Liver Transplant Clinic	10am - 12Noon & 6pm - 8pm daily
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**Liver Transplant hotline**

+91 9650004526

**Medanta hotline**

0124 4141414

**Emergency no.**

0124 1068

instituteliverhealth@gmail.com

www.livertransplantindia.com

info@medanta.org

www.medanta.org



**Dr. Naresh Trehan**  
Chairman & Managing Director

**Medanta-The Medicity** is one of India's largest multi-specialty hospital & located in Gurgaon, a bustling town in the National Capital Region. Founded by eminent cardiac surgeon, Dr. Naresh Trehan, the institution has been envisioned with the aim of bringing to India the highest standards of medical care along with clinical research, education and training.

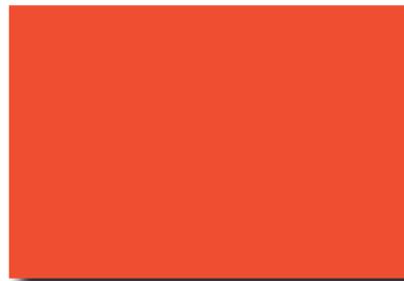
Spread across 43 acres, the institute includes a research center, medical and nursing school. It has 1,250 beds and over 350 critical care beds with 45 operation theatres catering to over 20 specialties. Medanta houses nine institutes of excellence which provide medical intelligentsia, cutting-edge technology and state-of-the-art infrastructure with a well-integrated and comprehensive information system.

Medanta-The Medicity brings together an outstanding pool of doctors, scientists and clinical researchers to foster collaborative, multidisciplinary investigation, inspiring new ideas and discoveries; and translating scientific advances more swiftly into new ways of diagnosing and treating patients and preventing diseases. A one-of-its-kind facility across the world, Medanta through its research integrates modern and traditional forms of medicine to provide accessible and affordable healthcare.



### Our vision

"Medanta operates under the guiding principle of providing the highest quality of accessible and affordable medical services with care, compassion & commitment."



## MEDANTA INSTITUTE OF LIVER TRANSPLANTATION AND REGENERATIVE MEDICINE



**Dr. Arvinder Singh Soin, Padma Shri**

MBBS, MS (AIIMS), FRCS (Gen Surgery)  
FRCS (Transplant Surgery), Cambridge, UK

Chief Transplant and Hepatobiliary Surgeon

Chairman-Medanta Institute of Liver Transplantation and Regenerative Medicine

Dr. A.S. Soin is a globally recognized surgeon for liver transplantation and has been awarded the Padma Shri for pioneering liver transplantation in India. An alumnus of AIIMS and Cambridge University where he mastered multi-organ transplantation and liver / biliary surgery, he has many surgical innovations to his credit.

He and his team are credited with almost all the firsts in liver transplantation in India, including the first successful transplant in 1998. With more than 1,200 liver transplants, 7,500 other complex liver and biliary operations, 720 invited lectures, 105 research publications, 26 book chapters, and a book on Liver Transplantation to his credit, Dr. Soin is truly a world authority in the field.

### The Institute...

The Institute of Liver Transplantation and Regenerative Medicine at Medanta-The Medicity is Asia's first of its kind dedicated institute offering all levels of treatment for liver diseases, including cancer, for both adults and children. Global norms are followed for evidence-based best practice in all we do, and, we are in turn committed to a scientific, compassionate and patient-friendly approach. At Medanta our ethos is one of undying quest to innovate safer and more effective treatments for our patients, and to serve as a teaching and mentoring institute.

### Our strengths...

Every liver transplant is an amalgam of the highest level of expertise in liver, biliary and vascular surgery, as well as advanced support from several other disciplines. Some of the world's most renowned experts in liver and biliary surgery, adult and pediatric hepatology, anaesthesia, critical care, diagnostic and interventional radiology and liver oncology; have come together under one umbrella to create an unparalleled oasis of talent at Medanta. We are also supported by world class services in transfusion medicine, pathology, laboratory medicine, cardiology, endocrinology, nephrology and pulmonology, all of which collectively ensure we are able to provide the best complete all round care to our patients.

### Programme highlights...

- Our team has completed more than 800 liver transplants in India and runs the country's largest and the world's second largest (live donor) liver transplant programme
- India's largest and most successful pediatric liver transplant programme with the highest experience in children, weighing less than 10 kg
- Among the world's highest liver transplant success rates of 95% and an infection rate of <10%, all of which are rare global feats
- Special 21-point liver donor safety programme
- Unique transplant support group of previous patients and donors to help new patients
- Complex non-transplant liver and bile duct surgery for adults and children: we are a high volume referral centre for all types of liver lumps, bile duct cancer, cysts and blocks

### Future vision...

- Developing deceased donor transplantation
- Key-hole laparoscopic and robotic surgery for donors to enhance their comfort
- Regenerative medicine: use of stem cells and liver cell transplants to treat liver diseases without the need for liver transplantation
- Molecular research relevant to India
- Training institute in liver medicine and surgery



**Dr. Rahul Kakodkar**  
Senior Consultant-  
Hepatobiliary and  
Liver Transplant Surgeon.  
Head-  
Division of Academics

Dr. Rahul Kakodkar has extensive experience in the field of hepatobiliary surgery and liver transplantation, which also includes active participation in pioneering efforts that led to the growth of liver transplantation in India. Apart from his clinical credentials in the field of hepatobiliary surgery and living donor liver transplantation, he has served as faculty at national and international fora and has a number of publications to his credit.

In order to deliver the safest and the latest treatments to our patients, the institute is committed to building a strong academic foundation; the foundation itself forms the basis of clinical excellence. The division of academics conducts academic sessions to constantly update knowledge in the field, develop research ideas and innovations with an ultimate aim of introducing the best the world has to offer towards clinical patient care.



**Dr. Ravi Mohanka**  
Senior Consultant-  
Hepatobiliary and  
Multi-organ Transplant  
Surgeon  
Head-Division of  
Deceased Donor  
Transplantation

Dr. Ravi Mohanka has a vast experience in both adult and pediatric transplantation, including complex procedures such as multi-visceral transplantation. He has worked at the most reputed hospitals in India and abroad, including the prestigious University of Pittsburgh.

He has presented and published his research work in many scientific meetings, international journals and also delivered several faculty lectures.

Deceased donor organ donation is still in its infancy in India. The growth of deceased organ donation will not only resolve the scarcity of organs for transplantation, but also expand its scope to enable pancreas, intestinal, and multi-visceral transplantation, thus saving many more lives.

As head of the institute's deceased donor programme, he envisions deceased donor organ transplantation as the next big wave in transplantation. The team's endeavor is to bring about mass awareness and establish logistic support for safe recovery, equitable sharing and rapid transport of organs across the country. With this change, many donors could pass on the gift of life and numerous patients with end-stage organ failure could benefit with a life-saving transplant.



**Dr. Amit N. Rastogi**  
Consultant-Liver Transplant and Hepatobiliary Surgeon  
In-charge-Minimal Access and Robotic Liver Surgery

Dr. Amit Rastogi has experience in surgical gastroenterology, hepatobiliary and liver transplant surgery from various institutes of repute such as SGPGI (Lucknow), AIIMS, GB Pant, Apollo Hospitals and SGRH, New Delhi.

Minimal access surgery using conventional and robotic techniques for liver transplant and hepatobiliary surgery, is the surgery of the future, entailing less pain, scarring and early recovery. Dr. Amit is in-charge of developing the robotic surgery programme at the institute and has taken steps to setup this niche programme, the final aim being to carry out robotic donor hepatectomies for (LDLT).



**Dr Sanjay Goja,**  
Consultant-Liver Transplant and Hepatobiliary Surgeon  
Administrative In-charge-Fellowship Programme

Dr. Sanjay Goja has worked in the most reputed liver transplant centers in India and has been involved with teams credited with developing innovative procedures in liver transplantation. After completing his training in surgical gastroenterology, he did his fellowship in liver transplantation. His main interest lies in innovating new measures to ensure donor safety in LDLT.

His other interests include development of the deceased donor programme, application of new technology in liver transplantation & cost reduction in transplant to make it available to a larger section of society. Apart from liver transplantation, he has considerable experience in hepatobiliary and pancreatic surgery.



**Dr. Balachandran Menon**  
Consultant-Liver Transplant and Hepatobiliary Surgeon  
In-charge-Protocols and Infection Control

Dr. Balachandran Menon has completed his advanced training from the best centres in India - M.Ch GI Surgery (SGPGI) / PDCC Vascular Surgery (SCTIMST); and trained in liver transplantation at Samsung Hospital Seoul, and SGRH, New-Delhi. He has considerable experience in surgical gastroenterology and laparoscopic HPB surgery.

His interests include resectional treatment of liver tumours, advanced laparoscopic HPB surgery and laparoscopic donor hepatectomy. His research interests include - use of low GRWR grafts in LDLT and prevention of graft reperfusion injury.

# MEDANTA INSTITUTE OF LIVER TRANSPLANTATION AND REGENERATIVE MEDICINE

*...our multidisciplinary team*



**Sitting (from left to right):** ♦ Dr. Deepak Govil ♦ Dr. Sanjiv Saigal ♦ Dr. Vijay Vohra ♦ Dr. Arvinder Singh Soin ♦ Dr. Neelam Mohan ♦ Dr. Sanjay Baijal

**Standing (from left to right, front row):** ♦ Dr. Gurpreet Kaur ♦ Dr. Vandana Malik ♦ Dr. Annu Sarin Jolly ♦ Dr. Pooja Bhangui ♦ Dr. Anirban Roy ♦ Dr. Rashmi Gundappa ♦ Dr. N.Bharat Kumar ♦ Dr. Neeraj Saraf  
♦ Dr. Tarun Piplani ♦ Dr. Mohammed Nayeem ♦ Dr. Rahul Kakodkar ♦ Dr. Ravi Mohanka ♦ Dr. Amit Rastogi ♦ Dr. P.Balachandran Menon ♦ Dr. Prashant Bhangui ♦ Dr. G.V. Prem Kumar ♦ Dr. Maninder Dhaliwal  
♦ Dr. Sumana Ramachandra ♦ Nidhi Mahajan ♦ Dr. Avinal Kalra ♦ Geeta Sharma ♦ Dr. Shaleen Bhatnagar ♦ Shikha ♦ Dr. Seema Bhalotra ♦ Dr. Nikunj Gupta ♦ Silji Jain ♦ Dr. Aarti Kabra

**Standing (from left to right, middle row):** ♦ Dr. Sumit Goyal ♦ Dr. Rupak Kulkarni ♦ Dr. Manish Aneja ♦ Dr. Manuj Sodhi ♦ Dr. Prashant Pandey ♦ Dr. Sachin Gupta ♦ Dr. Shrikanth Srinivasan ♦ Kapil Maggu  
♦ Dr. Sanjay Goja ♦ Dr. Sandeep Kumar ♦ Feroz Khan ♦ Dr. Sakshi Karkra ♦ Dr. Meena J. ♦ Dr. Sweta Patel ♦ Dr. Santosh ♦ Dr. Sharad Yadav ♦ Dr. Dibyajyoti Bora

**Standing (from left to right, back row):** ♦ Yogesh ♦ Dheeraj ♦ Dr. Sharat Varma ♦ Dr. Vaibhav Bhola ♦ Dr. Rishabh Jain ♦ Josen ♦ Ankush Thampy ♦ Dr. Amardeep Yadav ♦ Ratandeep Sethi ♦ Jeetender Dedha

Liver transplant and HPB Surgery

Pediatric and Adult Transplant Hepatology

Liver transplant, HPB and GI Anaesthesia

Radiology

Critical Care

Regenerative Medicine

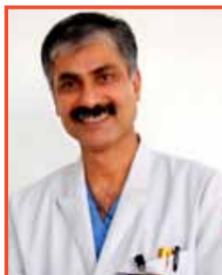
Research Staff

Administrative Staff

Transplant Coordination Team

Physiotherapy Team

## DIVISION OF TRANSPLANT HEPATOLOGY



**Dr. Sanjiv Saigal**

*Head-Division of Transplant Hepatology*

Dr. Sanjiv Saigal is one of the most experienced hepatologists of Asia & has spearheaded the medical team of the largest liver transplant programme in the country for over a decade. From the time of his INLAKS fellowship at the Kings College Hospital in London, he has also been actively involved in academics and research with numerous publications in national and international peer reviewed journals. He is a member of the Royal College of Physicians (MRCP), UK and member of National Academy of Medical Sciences (MNAMS).



**Dr. Neeraj Saraf**

*Senior Consultant-Hepatology; In-charge-Acute Liver Failure Unit*

Dr. Saraf obtained his fellowship in advanced hepatology from the Mt Sinai School of Medicine, USA., and is a UNOS certified liver transplant physician with vast experience in managing patients with liver diseases. His areas of expertise include management of patients with liver failure and transplantation.

In addition to comprehensive pre, peri and post-transplantation care of patients, the Division of Transplant Hepatology provides other hepatology support services like endoscopy, liver biopsies and ERCP in elective and emergency situations. The unit has large experience in managing transplant immunosuppression, post transplant complications if any, and in dedicated follow-up care. The division is also involved in various clinical and lab based research projects in transplant hepatology.

### LIVER CRITICAL CARE

- India's largest, highly qualified and most experienced dedicated team of 10 liver intensivists led by Dr. Deepak Govil
- 22 bed liver ICU with earmarked 8 isolation cubicles for liver transplant recipients
- Round the clock consultant doctor in ICU
- 1.5 highly trained ICU nurses per patient
- Very low rate of hospital acquired infection due to unique infection control policies
- Hospital Information System (HIS) and PACS for speedy, paperless test reports and efficient patient management, with zero percent erroneous/lost reports
- Advanced Computerized Monitoring
- Team consisting of critical care nurses, physicians, surgeons, respiratory & physiotherapists, infection control nurse, dietitians, social worker and transcriptionist
- In-house sonography, fibre optic bronchoscopy, ECMO, renal replacement therapy, advanced hemodynamic monitoring and ventilatory support system
- Daily counseling of the patients' families by senior ICU doctors and liver team to keep the relatives updated and connected with the patient's treatment



## PEDIATRIC HEPATOLOGY



**Dr. Neelam Mohan**

*Director-Pediatric Gastroenterology, Hepatology and Liver transplantation*

Dr. Neelam Mohan was trained in AIIMS and Birmingham Children's Hospital, U.K. She heads the first of its kind dedicated pediatric hepatology and transplant service in the country which provides world class facilities for managing newborns, children and adolescents with liver disease. She is supported by a team of colleagues trained in pediatric gastroenterology, hepatology and intensive care.

Along with the surgical team, the unit has several 'firsts' to its credit in the field of liver transplant in India, such as the first successful reduced cadaveric liver transplant in a child, first successful liver transplant in fulminant hepatic failure, first bloodless liver transplant & first swap liver transplantation.

In addition, the team was involved in South Asia's first successful combined liver-kidney transplant from two live donors in a case of primary hyperoxaluria type 1, youngest domino liver transplantation in the world and the first liver transplant in a baby with factor VII deficiency in the world. The Department is governed under the guiding principle of providing affordable medical services to patients with care, compassion and commitment, the motto being "Consider Every Child As Our Own".

### HPB AND LIVER TRANSPLANT ANAESTHESIA

- Dedicated 12 member liver anaesthesia team led by Dr. Vijay Vohra with a combined experience of over 1,000 successful liver transplants for all ages from 5 months to 78 years of age
- 4 dedicated operation theaters, state-of-the art equipment.
- The world's most advanced monitoring systems like Lithium Dilution Cardiac Output (LIDCO), Pulse Contour Analysis (Vigileo ) and Swan Ganz Catheters
- Point of care coagulation monitoring using thromboelastography, autologous blood transfusion, rapid Infusion devices
- Patient temperature control equipment - fluid warming devices, temperature control blankets and mattresses
- "Cell saver" - collecting and washing blood lost during surgery and re-transfusion to conserve blood
- Continuous Renal Replacement Therapy (CRRT) for intra-op dialysis (though rarely needed, this can be life-saving)
- 24x7 acute pain service by trained staff for providing post operative pain relief using modern pain control methods including patient controlled analgesia (PCA)



## A UNIQUE INSTITUTE

- State-of the art modular operating theatres designed specially for liver surgery
- Fully automated systems to minimize human error
- One of the largest and best equipped liver ICU's in the world with top of the line equipment and unique infection control systems
- Comfortable day-care facilities for small procedures, injections and day rest for outpatients
- Comprehensive international patients' service: includes visa recommendation, electronic transfer of funds, airport pickup, paid accommodation close to hospital, interpreter service, money changer, cuisine of choice, post-surgery follow up online, and coordination centres in most neighbouring countries
- Medanta 'Outreach Liver Clinics' in many cities of India and the neighbouring countries to facilitate pre-operative evaluation and post-operative follow up
- Acceptance of difficult cases refused in other tertiary care institutes

## PROGRAMS AND CLINICS

- Liver transplant clinic
- Paediatric liver disease and transplantation clinic
- Liver / biliary cancer and surgery clinic
- Pre-transplantation and post-transplantation clinic
- Anaesthesia and pain clinic
- Rapid response liver failure unit
- Patient education and counseling service

## SPECIALIZED PROCEDURES / TREATMENTS

- Living donor and deceased donor liver transplantation for acute and chronic liver failure (cirrhosis) for both adults and children
- Split-liver, dual lobe and domino liver transplantation, swap-liver transplantation, combined liver-kidney transplantation
- All types of non-transplant surgery for other liver and biliary diseases including major hepatectomy for liver cancer, complex liver resections for hilar cholangiocarcinoma, and liver metastases
- Parenchyma preserving liver resections (Posterior sectorectomy, bisegmentectomy, atypical resections)
- Liver resection for colorectal and neuroendocrine liver secondaries
- Radical cholecystectomy and extended liver resections for gall bladder cancer
- Bile duct resections and redo biliary surgery, surgery for biliary atresia, choledochal cyst
- Latest medical treatment for hepatitis
- Interventional radiology: Complex procedures for liver/biliary tract, include radiofrequency ablation (RFA), transarterial chemoembolisation (TACE) and Y90 for liver tumours, portal vein embolisation, embolisation of aneurysms/A-V fistulae, transjugular intrahepatic porto-systemic shunts (TIPSS) and percutaneous transhepatic stenting

24 HRS. EMERGENCY HELPLINE /

RAPID RESPONSE LIVER FAILURE UNIT & AIR AMBULANCE

**+91 9650004526**

Liver Transplant	+91 99992 82222
Liver and Biliary Surgery	+91 88002 67222
Liver Cancer Helpline	+91 88002 67222
Pediatric Liver Helpline	+91 88004 94227
Institute of Liver Transplantation	+91 124 4855 222, 4855 444

