



MIOT
ADVANCED CENTER
FOR GASTROINTESTINAL
AND LIVER DISEASES



Dear Friends,

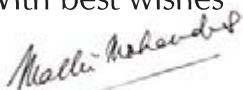
Over the past few years, we have seen a steep increase in the incidence of liver disease. Since conditions of the liver rarely show symptoms, they are often diagnosed at an advanced stage, when the only recourse is a Liver Transplant.

Most patients who receive such a diagnosis find themselves in a spiral of despair warring with hope. For them, everyday is a challenge: while they wait for a donor organ to become available, through the surgery and their recovery. They need sound medical care and empathetic emotional support at every stage. At MIOT International, this is precisely what we offer patients as we share their journey from diagnosis to cure.

Once a patient chooses to do his transplant under the **MIOT Gold Standard Liver Transplant Programme (MGST)** we are committed to giving him a good outcome. Our unified focus remains on ensuring the patient's long-term survival and giving him a good quality of life , post transplant. This starts with a '**no-compromise**' stand on donor organ choice for our patient and providing an optimum environment for his surgery and recovery. An effort led by our renowned specialists, who adopt the latest transplant surgery techniques and facilities and follow stringent international protocols. They are aided by highly trained support teams .

This wholly collaborative approach, with such a high level of medical expertise, is what allows me to proudly inform you that today we can safely offer **90% success** in this most challenging speciality. It is an effort which allows us to reunite families with their loved ones, often in cases where once there was no hope.

With best wishes



Mrs. Mallika Mohandas
Chairman, MIOT International

The MIOT Gold Standard Liver Transplant Programme(GST)

Our Goal: Return patients with End-stage liver disease to a good quality of life for the long term.

Our Commitment



- Internationally acclaimed, Experienced team of full-time Liver specialists
- Accurate assessment and projection of the patient's condition & recovery, before Transplant
- Donor organ that matches international specifications
- Safest environment for transplant surgery and recovery, with the lowest infection rate (0.06%), in India
- Complete transparency with patients and caregivers at every stage
- Compassionate and positive care environment that preserves patient dignity at all times.

A marriage of experience, expertise and ingenuity...

A collaboration of over 10 different specialities...

In the most complex surgical procedure performed.

Today, advances in technology, surgical techniques and drug development have given surgeons the upper hand in liver transplant surgery.

But, it cannot be done just anywhere!

It all comes together at the

MIOT Gold Standard Liver Transplant Programme,

where our patients experience complete care under one roof, with all the emotional support they need, and total transparency at every stage of their journey to recovery.

This booklet gives you a glimpse into our Transplant programme.

We hope it will help you make the right choices when it comes to specialised care for yourself or a loved one.



Experience and Expertise Working Together as ONE



They say that no man is an island. Nowhere is this better demonstrated than in a liver transplant.

When patients come to us, we are their last hope. So, there can be no room for error, indecisiveness or ego hang-ups.

*From the moment they come to MIOT International, our patients are cared for by a team from over **10 specialities**.*

- Renowned Hepatologists & Transplant specialists, who share the patient's journey - from diagnosis to cure.
- Pulmonologists, Cardiologists and Nephrologists to ensure that other organ systems are brought up to satisfactory health, if required.

- Expert Interventional Radiologists for insertion of stents and catheters during surgery.
- Pathologists and Haematologists to monitor the patient's condition before and after the surgery.
- Dedicated Anaesthesiologists, who not only keep the patient pain-free and comfortable, but also ensure the delicate balances of body enzymes, hormones & blood levels.
- Intensivists for round-the-clock care during the crucial post-op phase.
- Transplant co-ordinators, Nutrition specialists and dedicated nursing staff, who care for and support both patients and caregivers, 24x7.

Each one, committed to restoring their ailing bodies and bringing joy back to lives.



**Comprehensive,
comfortable, conclusive**
It begins with an accurate
assessment.

The first step in a Liver Transplant is an accurate assessment of our patient's condition to give our specialists the complete picture of his liver and other systems. MIOT International has one of the **most comprehensive set ups** for detecting and staging disease in the country. Fast, painless and minimally invasive, they



give our doctors all the information they need to handle the patient's current condition, mitigate potential complications, and protect the patient's long term recovery.

- In our Radiology & Imaging armory are:
The sophisticated 64-slice CT/ PET CT * 1.5 T HD xT MRI * 4D ultrasound * Fibroscan (ARFI) to measure liver fibrosis without an invasive



investigation.

- The on-campus NABL certified Laboratory Sciences department at MIOT International, ranked 8th internationally, provides our specialists data at a cellular level, to accurately stage disease ,make decisions and monitor progress in the post transplant stage.

Meeting the Gold Standard

Making the call to accept or reject

The 'health' of the donor liver determines the quality of life that the patient will enjoy after his transplant surgery. The healthier the liver, the better the patient will be in the long run.

The donor organ's health is determined based on the donor's age, the amount of fat (stenosis) in the liver, and how much scarring (fibrosis) there is, if at all.

At MIOT International, our surgeons travel to different centres to personally assess the donor organ and make a choice.

There are no compromises when it comes to **organ quality**; it must meet the standards followed internationally.

It calls for absolute integrity and commitment to the patient's well-being. Sometimes, this has meant making the hard choice to turn down an available liver and wait, with the patient, for a more suitable one. But it is a philosophy that helps us safeguard our patient's long-term survival - and has earned us a **90% success rate**.





New Age Theatres Besting the complications of surgery

The liver has multiple connections to major blood vessels and handles over two litres of blood at any given moment. Therefore, one of the biggest challenges surgeons faced in a liver transplant was to **control, regulate and manage blood flow** and **clotting** during the surgery. Advances in surgical techniques and technologies have made liver transplant surgery safer and therefore, successful.

Our surgeons are greatly aided by advanced, intelligent and user-friendly devices such as the Intra-op Cell Salvage

device, Rapid infuser system, Cavitron Ultrasonic Suction Aspirator, Intra-operative Ultrasound, Veno-venous Bypass Circuit and ROTEM thromboelastogram, which handle all possible hindrances during this complex procedure. Freeing them to focus on the task at hand.

At MIOT International, Liver Transplants are performed in dedicated, twin operating theatres with all the necessary instrumentation for both open and keyhole surgery.





A Top-notch Support System

A sophisticated Transfusion Medicine facility (blood bank) with a high level of preparedness is an essential element in a Liver Transplant surgery both during the surgery, and in the immediate post-op phase.

MIOT's dedicated Transfusion Medicine facility, the **first of its kind** in the country, offers the entire spectrum of blood services: blood collection, stringent testing & infection screening, and



component separation. Its services are especially significant to transplant patients, who often need sophisticated component therapy of essential blood components.

The state-of-the-art Blood Bank ensures critical round-the-clock reserves of leucodepleted blood and blood products, maintained at international standards.

The three pharmacies on campus store all drugs required for Transplant patients, under ideal conditions as mandated.



Fighting the unseen enemy

Patient safety first and always

Infection is the biggest threat to a safe recovery. In a transplant patient, it's an even bigger risk as the patient's immune system has already been shut down to prevent rejection of the transplanted organ. **With the lowest rate of infection in the country (0.06%), MIOT is today one of the world's safest hospitals for a liver transplant.**



At MIOT, all liver transplant surgeries are performed in twin theatres, to limit the donor organ exposure. Our OTs and ICUs, equipped with intelligent sensor-based technology, are HEPA filtered and have laminar air flow to ensure the circulation of fresh air, while keeping out all bacteria.

Dedicated corridors between the surgical suites and the

post-op recovery rooms, eliminate infection during transit, post surgery.

All material used in the OTs, ICUs and patient rooms are treated at the Automated Central Sterile Supply unit, which ensure zero manual contact. Every member of our staff observes strict aseptic protocols to ensure patient safety.



**Focussed on the
long-term**
Where no effort
is too great



When patients come to MIOT International for their liver transplants, they have often exhausted all other options and are running against time. This demands that our specialists act quickly and decisively. With solutions that are customised for each patient. With utmost care in every aspect of the treatment process. And without the slightest compromise in the quality of our inputs. Because when patients leave our care, a full life beckoning, their joy at a second life should be complete in every way. That is our goal. And our reward.

Alcohol. Overweight. Diabetes. Hepatitis B & C.

**Your liver handles all the abuse.
All alone.**



MIOT Liver Gym

**Let's Get Your Liver
Back In Shape**

Here's your chance to Reverse Liver Damage

Lifestyle, habits & illness over the years may have damaged your liver. You may not have had any problems so far. But that can be deceptive as your liver can work in absolute silence until it is **90% damaged**. When the breakdown does happen, your entire system shuts down and a **liver transplant** becomes the only option.

The good news is that the liver can **regenerate** and come back fully fit even after severe damage - with some help from you through lifestyle changes and medical support, if necessary.

So whatever your liver worries maybe, here is your chance to **start the Reversal**.

Call: 044 4200 2288 or

**Email: livertransplant@miotinternational.com
or visit us at: www.miotinternational.com**



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