

APOLLO

CHENNAI INSIGHTS

Chennai Unique Cases

JULY 2026



Robotic Surgery
For Mid-Oesophageal Diverticulum



This Doctor's Day, we celebrate excellence, compassion, and the relentless pursuit of better care, while honouring the visionaries shaping the future of healthcare.



The silent discovery

“

*This is your
reminder to get
a preventive
health check-up.*

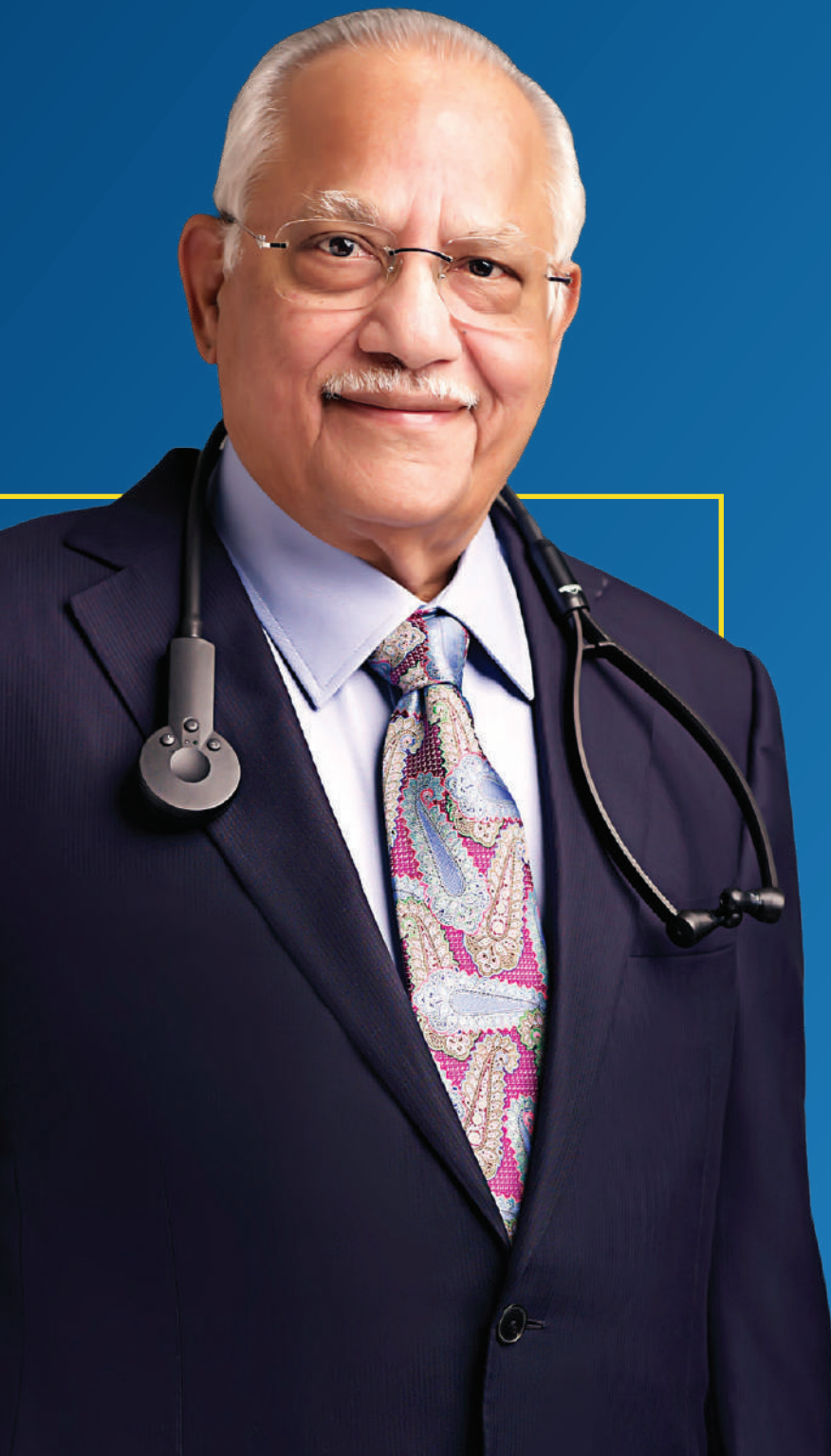


Don't wait for symptoms to show up.
Stay one step ahead with ProHealth



Transforming Hip & Knee Surgery with Robotics

FROM THE CHAIRMAN'S DESK: VISION AND MISSION



Our mission is to bring healthcare of International standards within the reach of every individual.

We are committed to achieving and maintaining excellence in education, research, and healthcare for the benefit of humanity.

Our vision is to make India a global healthcare destination.

Dr Prathap C Reddy

Founder & Chairman
Apollo Hospitals





INDEX

A ROBOTIC BREAKTHROUGH IN COMPLEX LIVER CANCER

Lead Doctor: *Dr. Santhosh Anand K S*

FROM IMMOBILITY TO INDEPENDENCE:
ROBOTIC HIP & KNEE SURGERY TRANSFORMATION

Lead Doctor: *Dr. Arun Kannan*

PRECISION IN RARE CONDITIONS:
ROBOTIC SURGERY FOR
MID-OESOPHAGEAL DIVERTICULUM

Lead Doctor: *Dr. J. K. A. Jameel*

DEEP BRAIN STIMULATION FOR PARKINSON'S DISEASE:
PATIENT SELECTION, TREATMENT APPROACH
AND EXPECTED BENEFITS

Lead Doctor: *Dr. P. Vijayshankar*

RESTORING FUNCTION, RELIEVING PAIN:
A TOTAL ELBOW REPLACEMENT JOURNEY

Lead Doctor: *Dr. Madan Mohan Reddy,
Dr. Karthik Reddy Pammi, Dr. Praveen J*

CELEBRATING
DOCTOR'S DAY

01

A ROBOTIC BREAKTHROUGH IN COMPLEX LIVER CANCER

DR SANTHOSH ANAND K S

Senior Consultant, Surgical Gastroenterology

Apollo Hospitals, Greams Road, Chennai

Scan the QR code
to learn more



INTRODUCTION

Liver cancer, especially when combined with cirrhosis and vascular involvement, has traditionally posed significant limitations to surgical intervention. Patients with tumors extending into major blood vessels were often deemed inoperable. However, advancements in robotic-assisted surgery are now redefining these boundaries, offering new hope in high-risk cases.

CLINICAL PRESENTATION

A 61-year-old Woman with Hepatitis C-related cirrhosis presented with asymptomatic liver lesion. She reported no pain, fatigue, or weight loss. The condition was incidentally detected during a routine follow-up for her chronic liver disease.

INVESTIGATIONS AND DIAGNOSIS

Imaging revealed two major clinical challenges:

- **Localized Tumour:** A 4-cm lesion in a specific segment of the liver
- **Portal Vein Involvement:** Tumour thrombus blocking the liver's primary blood supply

This combination was historically considered a contraindication for surgery.

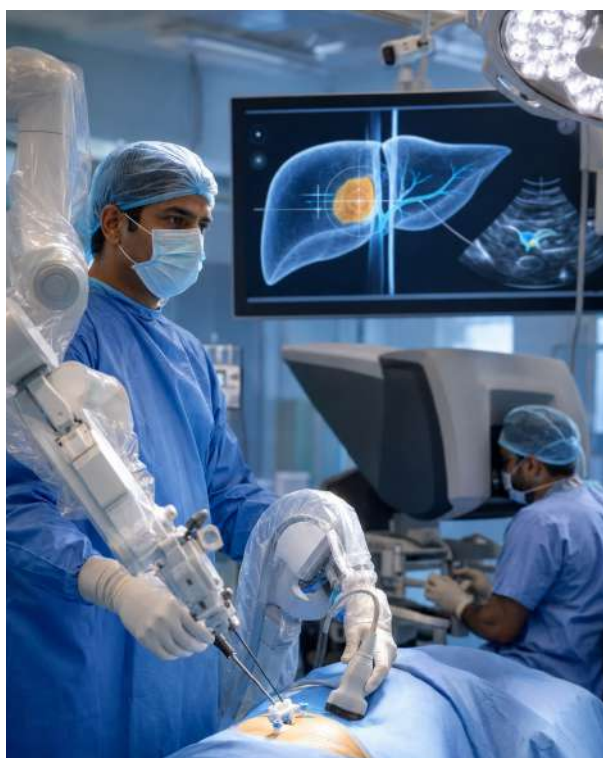
TREATMENT

A robotic-assisted surgical approach enabled a highly precise, minimally invasive intervention.

The procedure included:

- **Segmentectomy:** Removal of the tumour while preserving maximum healthy liver tissue
- **Portal Vein Thrombectomy:** Extraction of the tumour clot using a balloon catheter to restore blood flow

Intraoperative ultrasound acted as a real-time “GPS for the liver,” ensuring complete tumour clearance.



POSTOPERATIVE OUTCOME

The patient experienced a smooth recovery with

- Reduced pain due to smaller incisions
- Minimal physical trauma
- Faster mobilisation
- Shorter hospital stay



CLINICAL SIGNIFICANCE

This case demonstrates that even high-risk liver cancer patients can now undergo successful surgical intervention. Robotic precision allows surgeons to navigate complex anatomy safely, significantly improving outcomes and recovery timelines.

CONCLUSION

This case illustrates the feasibility of a minimally invasive robotic approach in a carefully selected patient with complex vascular involvement.

02

FROM IMMOBILITY TO INDEPENDENCE: ROBOTIC HIP & KNEE SURGERY TRANSFORMATION



DR ARUN KANNAN

Senior Consultant Orthopaedic Surgeon

Apollo Hospitals, Greams Road, Chennai

Scan the QR code
to learn more



INTRODUCTION

Joint replacement surgeries are rapidly evolving, with robotic-assisted techniques enhancing precision, implant longevity, and patient outcomes. In India, hip and knee replacements are increasingly common, with high success rates and growing adoption of advanced technologies.

CLINICAL PRESENTATION

A 60-year-old male presented with severe mobility issues stemming from a road accident 25 years earlier. Although the initial fracture healed, he subsequently developed osteoarthritis and necrosis, resulting in progressive joint deterioration over two decades.

His condition progressed to:

- Severe hip arthritis and deformity
- Secondary knee damage
- Restricted mobility (wheelchair-dependent)
- Significant decline in quality of life

INVESTIGATIONS AND DIAGNOSIS

Clinical evaluation revealed:

- Advanced degeneration of both hip and knee joints
- Severe deformity affecting alignment
- Need for simultaneous hip and knee reconstruction

TREATMENT

A staged, precision-driven approach was adopted:

- Total Hip Replacement
- Robotic-Assisted Total Knee Replacement

Robotic assistance enabled:

- Accurate implant positioning
- Correction of long-standing deformities
- Restoration of limb alignment
- Optimisation of soft tissue balance

POSTOPERATIVE OUTCOMES

Recovery outcomes were highly successful, with:

- Early mobilisation within days
- Discharge within 3 days
- Independent walking without support within 1 month
- Complete return to an active lifestyle



CLINICAL SIGNIFICANCE

This case highlights the transformative impact of robotic orthopaedics in complex reconstructive surgeries. Even long-standing deformities can now be corrected with high precision, improving both function and quality of life.



CONCLUSION

Robotic-assisted joint replacement is redefining orthopaedic care, enabling faster recovery, improving surgical accuracy, and restoring independence in patients once considered severely disabled.

03

PRECISION IN RARE CONDITIONS: ROBOTIC SURGERY FOR MID-OESOPHAGEAL DIVERTICULUM



DR J. K. A. JAMEEL

Senior Consultant, Surgical Gastroenterology.

Apollo Hospitals, Greams Road, Chennai

Scan the QR code
to learn more



INTRODUCTION

Oesophageal diverticula are rare conditions affecting less than 1% of the population. Often asymptomatic, they can become clinically significant when enlarged, leading to swallowing difficulties and serious complications. Advanced robotic surgery now offers a minimally invasive solution for such complex cases.

CLINICAL PRESENTATION

A 41-year-old male presented with:

- Progressive difficulty swallowing (especially solids)
- Persistent sensation of food stuck in the chest

He had no history of smoking, tuberculosis, or lung disease.

INVESTIGATIONS AND DIAGNOSIS

Diagnostic findings included:

- Chest X-ray: Abnormal shadow with an air-fluid level
- Endoscopy: Large pouch with trapped food
- CT Scan: 4 × 3 cm mid-oesophageal diverticulum near critical structures (lung, heart and spine)

Oesophageal motility was otherwise normal.

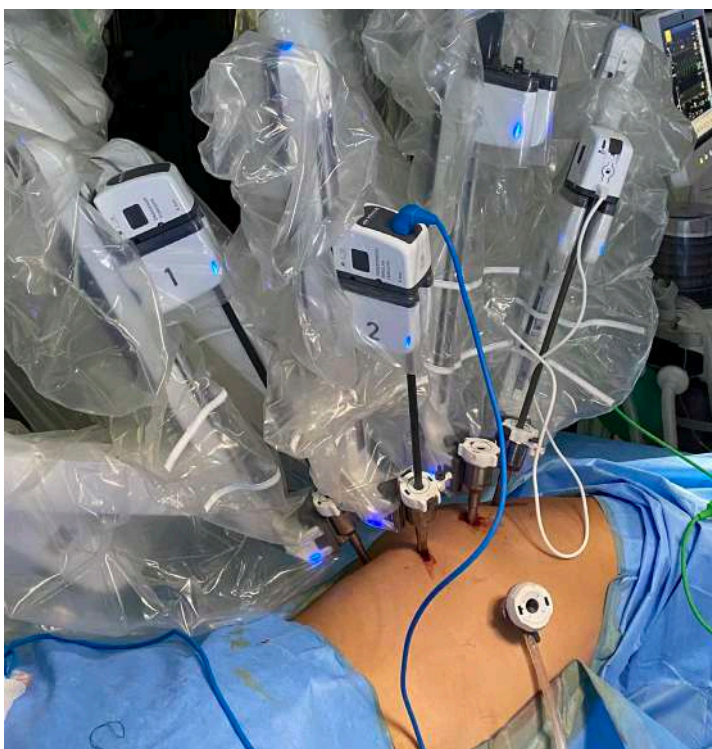


TREATMENT

The patient underwent **robotic-assisted minimally invasive surgery** using the da Vinci Xi system.

Procedure highlights:

- Access through small keyhole incisions
- Precise dissection of the diverticulum from surrounding organs
- Safe removal using a linear stapling device



POSTOPERATIVE OUTCOMES

- Excellent recovery within 2 months
- Complete symptom resolution
- No complications such as leakage



CLINICAL SIGNIFICANCE

Robotic surgery offers superior:

- Visualisation
- Precision
- Control in delicate anatomical regions

This significantly reduces surgical risks and improves outcomes in rare and complex conditions.

CONCLUSION

This case reinforces the growing role of robotic surgery in managing rare gastrointestinal disorders, offering patients safer procedures, minimal discomfort and faster recovery.

04

DEEP BRAIN STIMULATION FOR PARKINSON'S DISEASE: PATIENT SELECTION, TREATMENT APPROACH AND EXPECTED BENEFITS



DR P. VIJAYSHANKAR

Senior Consultant Neurologist and Movement Disorders & DBS Specialist

Apollo Hospitals, Greams Road, Chennai

Scan the QR code to learn more



INTRODUCTION

Parkinson's disease is a progressive neurological disorder that gradually impairs movement and coordination, significantly affecting the quality of life. Tasks once considered routine—walking, writing, or even holding objects—can become increasingly difficult. Deep Brain Stimulation (DBS) has emerged as a transformative treatment, offering renewed hope for patients with advanced symptoms.

CLINICAL PRESENTATION

Patients with Parkinson's disease commonly present with:

- Persistent tremors in hands and limbs
- Difficulty in walking and maintaining balance
- Slowness in movement affecting daily activities
- Reduced response to long-term medication

These symptoms can progressively limit independence and day-to-day functioning.

UNDERSTANDING THE CONDITION

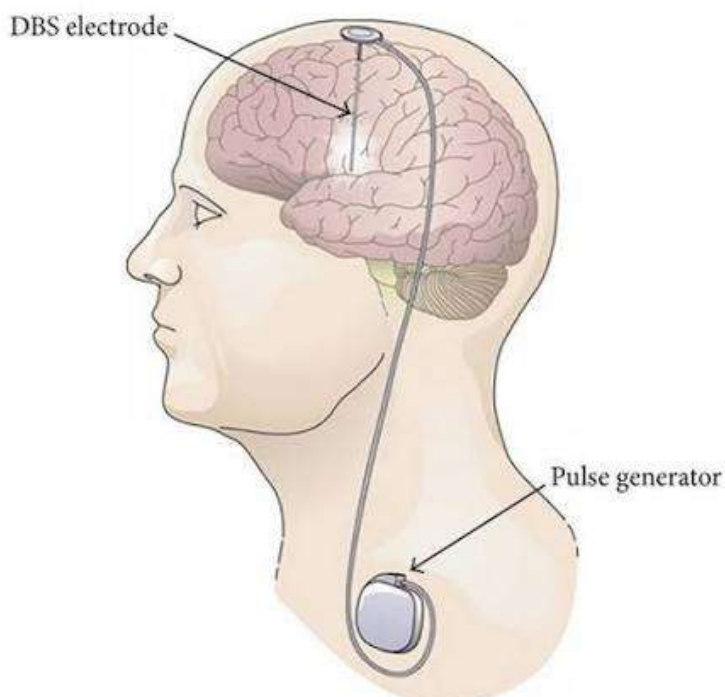
Parkinson's disease occurs due to the gradual degeneration of nerve cells in the brain, leading to impaired control of movement. As the disease advances, conventional medications may become less effective in managing symptoms.

TREATMENT: DEEP BRAIN STIMULATION (DBS)

DBS is an advanced neurosurgical procedure designed to regulate abnormal brain activity.

Procedure highlights:

- Implantation of thin electrodes in targeted areas of the brain
- Connection of electrodes to a Pulse generator implanted beneath the skin of the upper chest, usually below the collarbone.
- Delivery of controlled electrical impulses to restore functional balance



INDICATIONS FOR DBS

DBS is most beneficial for patients who:

- Have had Parkinson's disease for more than four years
- Experience reduced effectiveness of medication over time
- Require high doses of Levodopa (above 500 mg/day)
- Suffer from prolonged dyskinesia (involuntary movements)



POTENTIAL BENEFITS OF DBS

- Significant reduction in tremors and rigidity
- Improved ability to perform daily activities such as eating, walking, and writing
- Enhanced overall quality of life and independence

CLINICAL SIGNIFICANCE

Deep Brain Stimulation represents a major advancement in the management of movement disorders. By directly targeting neural pathways, DBS provides consistent symptom control when medications alone are insufficient.

CONCLUSION

DBS therapy is redefining the treatment landscape for Parkinson's disease. When combined with medical management and lifestyle support, it enables patients to regain control, restore independence, and lead more fulfilling lives.

05

RESTORING FUNCTION, RELIEVING PAIN: A TOTAL ELBOW REPLACEMENT JOURNEY



DR MADAN MOHAN REDDY

Senior Consultant
Orthopaedic Surgeon

Apollo Hospitals, Greams Road, Chennai

Scan the QR code
to learn more



DR KARTHIK REDDY PAMMI

Consultant, Orthopaedic Surgeon

Apollo Hospitals, Greams Road, Chennai

Scan the QR code
to learn more



DR PRAVEEN J

Associate Consultant,
Orthopaedic Surgeon

Apollo Hospitals, Greams Road, Chennai

INTRODUCTION

Severe elbow arthritis and joint instability can significantly impair a person's ability to perform even the simplest daily activities. When conservative treatments and previous surgical interventions fail, Total Elbow Replacement offers an effective solution to relieve pain, restore function, and improve quality of life. With advanced surgical expertise and precision implant techniques, Apollo Hospitals continues to deliver life-changing outcomes for patients with complex elbow conditions.

CLINICAL PRESENTATION

A 39-year-old man presented with:

- Severe elbow pain
- Marked instability of the elbow joint
- Difficulty performing routine activities such as eating and personal care
- A History of multiple previous elbow surgeries performed at another hospital, with persistent pain and functional limitation

These symptoms had progressively affected his independence and overall quality of life.

INVESTIGATIONS AND DIAGNOSIS

Comprehensive clinical evaluation, supported by imaging and functional assessment, revealed:

- Advanced elbow joint instability
- End-stage elbow arthritis
- Significant degeneration resulting from previous surgical interventions

Considering the severity of joint damage and functional impairment, Total Elbow Replacement was recommended as the most appropriate treatment to restore function and relieve chronic pain.

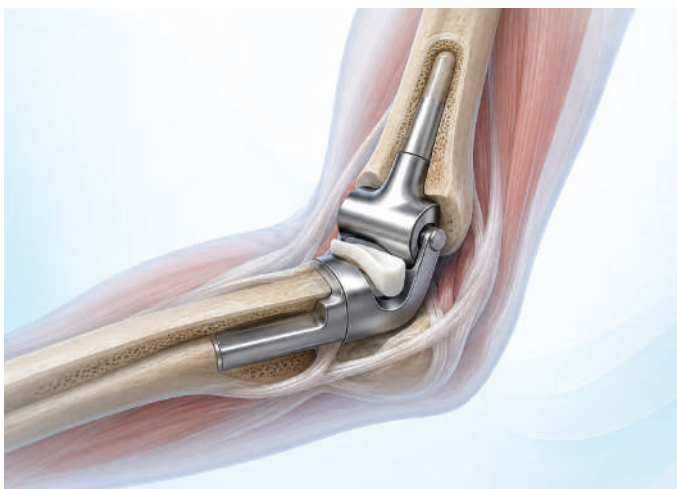
TREATMENT

The patient underwent Total Elbow Replacement, performed by the specialised orthopaedic team led by Dr. Madan Mohan Reddy.

The procedure involved:

- Advanced surgical techniques
- Precision placement of a biocompatible elbow prosthesis
- Strict aseptic protocols to minimise surgical risk
- Reconstruction of the damaged elbow joint to restore natural movement and stability

The prosthetic implant was designed to closely replicate normal elbow function while improving long-term joint performance.



POSTOPERATIVE OUTCOME

The patient experienced a positive postoperative recovery with:

- Significant pain relief within the first few days
- Progressive improvement in elbow range of motion
- Early initiation of physiotherapy and rehabilitation
- Gradual restoration of functional independence in daily activities

Structured rehabilitation continues to support long-term recovery and improved quality of life.

CLINICAL SIGNIFICANCE

This case highlights the effectiveness of Total Elbow Replacement in managing complex elbow disorders where previous surgeries and conservative treatments have failed.

The procedure offers substantial benefits for patients with:

- End-stage elbow arthritis
- Rheumatoid arthritis
- Post-traumatic arthritis
- Complex distal humerus fractures

CONCLUSION

This case reflects Apollo Hospitals' commitment to delivering advanced orthopaedic care through surgical expertise, precision technology, and patient-centred treatment. Total Elbow Replacement is transforming the lives of patients with severe elbow conditions—restoring function, relieving pain, and helping them reclaim their independence.

Celebrating Doctor's Day 2026

This Doctor's Day, we celebrate the minds that advance medicine, the hands that heal, and the vision that continues to shape the future of healthcare.



Apollo's leadership team honoured Padma Bhushan Dr K. R. Palaniswamy, MD, celebrating his remarkable contributions to gastroenterology and a legacy that has touched countless lives.



Celebrating a Lifetime of Healing and Leadership

On Doctors' Day, Apollo Hospitals honoured Padma Bhushan Dr K. R. Palaniswamy, a pioneer in gastroenterology whose contributions helped shape the course of modern healthcare in India. An eminent gastroenterologist, teacher and mentor, he advanced clinical practice and medical education while inspiring generations of physicians through his dedication to excellence in medicine.

His legacy extended beyond his clinical contributions, reflected in the doctors he mentored, the institutions he helped build and the countless patients whose lives were touched by his work. Apollo Hospitals expressed its heartfelt gratitude to Dr Palaniswamy for a lifetime dedicated to medicine, mentorship and the advancement of healthcare.

This is your reminder to get a preventive health check.

Don't wait for symptoms to show up. Stay one step ahead with ProHealth

Why ProHealth? Because preventive care
goes beyond a basic health check.

Advanced Diagnostics

State-of-the-art laboratory and imaging,
including assessments on flexibility,
sleep, mental health and cognitive function



Predictive Insights

AI-powered predictive risk scores

Expert consultation

Specialist doctor consultations for
overall health guidance

Smart Report

Digital smart reports with health insights



Personalised Guidance

Personalised health tips and Health
Mentor support to stay on track



BOOK YOUR HEALTH CHECK TODAY

📞 080 620 86000



42
YEARS
**HEALTH &
HAPPINESS**



APOLLO HOSPITALS

21, Greams Lane, Off Greams Road,
Thousand Lights, Chennai 600 006.

For Specialist Consultations & Collaborations:
044-4040 1066

Email: infochennai@apollohospitals.com