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Healthcare Special Edition

FUTURE OF HEALING

EXPLORING THE TECHNOLOGIES TRANSFORMING HOSPITALS, DIAGNOSTICS & CRITICAL CARE

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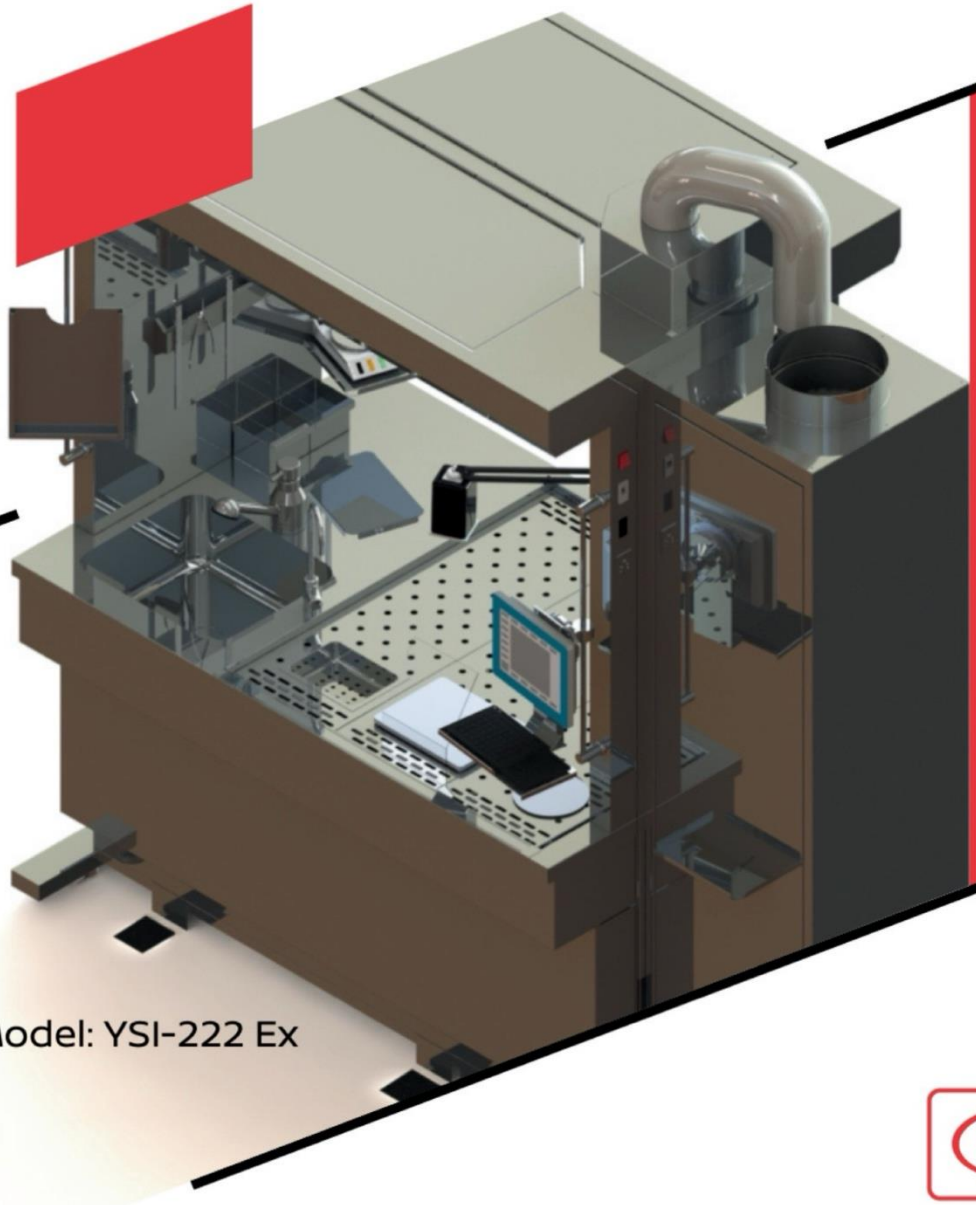

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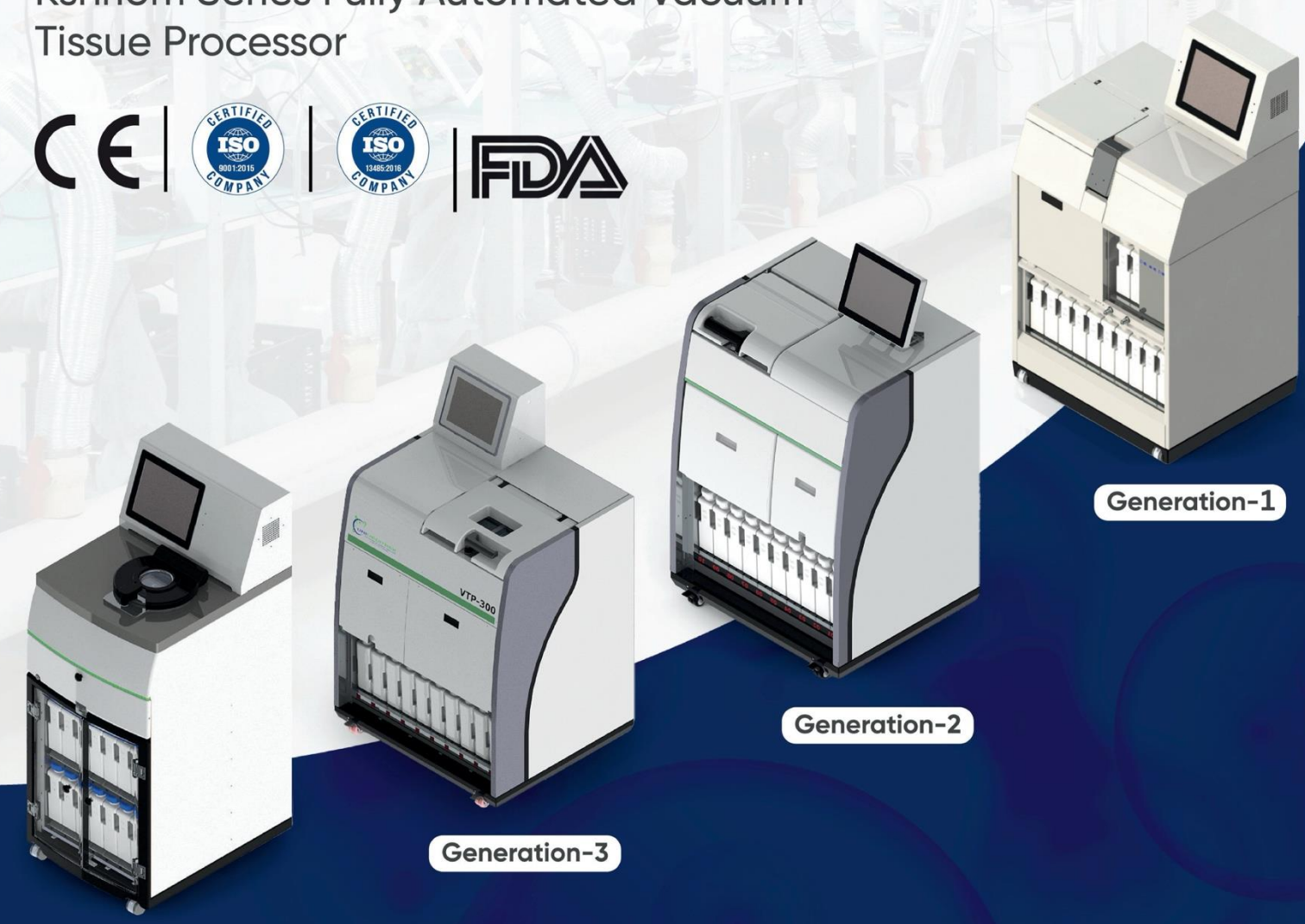

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UNIMEDITREK PRIVATE LIMITED
14 Chitra vihar,New Delhi-110092, India
Mob: +91-9810533445 | **Email:** sales@unimeditrek.com | **Website:** www.unilabequipments.com

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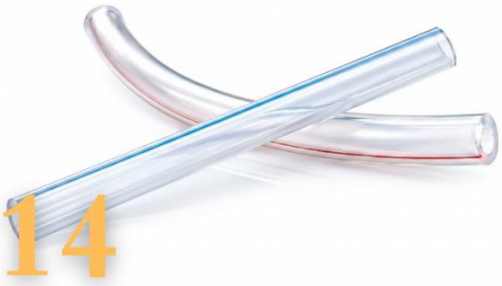

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Bi-Colour Silicone Tubes

A Functional Approach to Safer and Smarter Fluid Transfer

Bi-colour silicone tubes are flexible silicone tubes manufactured with two colour combinations in a single structure to improve visual identification and handling during fluid transfer applications.

APPLICATIONS

- Medical devices (feeding & drainage systems)
- Laboratory fluid transfer
- Pharmaceutical processing
- Food & beverage lines
- Diagnostic equipment

KEY FEATURES / BENEFITS

- Easy line identification in complex systems
- Better visibility of fluid flow and air bubbles
- Helps reduce connection and handling errors
- Custom colour options available
- Maintains flexibility and medical-grade performance

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Our Staff.

Corporate Office:
Microbioz India
H1/204, Vikramaditya Tower, Alaknanda Market | Kalka Ji,
New Delhi - 110019, India
Mob:- +91-9670704431 | Tel:- +91-11-44459687
Email ID : support@microbiozindia.com

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Editor's Word

Dear Readers,

Welcome to the Healthcare & Diagnostics Special Edition of Microbioz India.

It is a pleasure to have you with us once again as we bring you an edition dedicated to one of the most vital transformations of our time—where technology meets compassion to redefine the future of care.

This month's cover story, "**Future of Healing: Exploring the Technologies Transforming Hospitals, Diagnostics & Critical Care,**" explores how innovation is not just advancing healthcare systems, but also making them more patient-centric, responsive, and humane. It captures the delicate balance between cutting-edge technology and the essential human touch that defines truly impactful healthcare.

In this special edition, we have curated a collection of insightful articles, expert perspectives, and compelling features that reflect the rapidly evolving healthcare and diagnostics landscape. Our contributors—leaders, innovators, and visionaries—bring forward their expertise and creativity, offering valuable insights into digital health, diagnostics advancements, and patient-focused innovation.

We are also excited to present our Product Showcase section, featuring the latest launches and technological breakthroughs shaping the industry. This segment reinforces our commitment to keeping you informed about innovations that are driving efficiency, accuracy, and better patient outcomes.

At Microbioz India, we continuously strive to deliver content that is not only informative but also meaningful and engaging. Your continued support inspires us to push boundaries and elevate the quality of every edition we bring to you.

We invite you to stay connected with us through our digital platforms and social media channels—your feedback, ideas, and perspectives play a vital role in shaping our journey forward.

Thank you for being a part of our community. We hope this edition leaves you inspired, informed, and optimistic about the future of healthcare.

Enjoy the read!

Warm regards,

Kumar

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FUTURE OF HEALING

EXPLORING THE TECHNOLOGIES TRANSFORMING HOSPITALS, DIAGNOSTICS & CRITICAL CARE

Healthcare is about to enter a new age. Diagnostic and treatment methods are using automation and connectivity, precision technology, and artificial intelligence. Smart ICUs and robotic surgeons are about to change the way patients are monitored and even the very nature of a hospital.

There are also changes to the infrastructure of hospitals. Ready and waiting technology is transforming major institutions into digital ecosystems.

With an increasing patient load and rising costs, hospitals are about to use innovation for faster, more effective operations.

The Rise of Smart Hospitals

The time when hospitals use big data and cloud technology to improve efficiency and care is upon us. Further, smart hospitals are about to be the new norm.

The hospitals of today make use of:

1. Automated and smart systems for patient monitoring.
2. Automated systems for dispensing medications.
3. AI-enabled imaging systems.
4. Integrated Electronic Health Record systems.
5. Remote system management for Intensive Care Units.
6. Predictive maintenance systems for medical equipment.
7. Touchless systems for patient engagement.

There is evidence to support that the use of these systems improves care and treatment times while also reducing the chance of human error.

The critical need for rapid and effective systems for smart healthcare is most evident in the Emergency and Intensive Care Units, Operating Suites, and Instant Diagnostic laboratories.

Transforming Diagnostics with Artificial Intelligence

Diagnostics and clinical decision-making have been profoundly affected by the development of Artificial Intelligence (AI). AI can process and analyze vast amounts of medical data within seconds, allowing doctors to detect and diagnose conditions with greater speed and accuracy, and detect conditions that are difficult to identify.

Remarkable impacts have been made by AI technologies in:

1. Radiology imaging analysis
2. Pathology diagnostics
3. Oncology screening
4. Cardiac risk prediction
5. Laboratory data interpretation
6. Early sepsis detection
7. Clinical workflow optimization

AI tools have been adopted to assist radiologists in identifying abnormal findings on CT, MRI and X-ray images with high accuracy. In pathology laboratories, the use of AI paired with digital pathology is assisting with analyses of pathology slides and is resulting in greater diagnostic consistency. Predictive diagnostics is a newer developing area that aids in the early identification of patients who are at risk of clinical deterioration.

Transforming Critical Care with Modern Day Technology

The world of critical care is advancing at an unparalleled rate, and the technologies that are available in today's ICUs as compared to 25 years ago are revolutionary. Today's ICUs provide clinicians with the capability to offer anticipatory and customized care to patients.

Advancements have also been made to ICU technology that include:

1. Centralized monitoring systems for patient data
2. A mesh network of AI-controlled ventilators
3. Centralized wireless systems for monitoring patient data
4. Smart infusion systems
5. Real-time clinical alert systems

6. Tele-ICU technology
7. Predictive analytics for patient deterioration

The development of remote ICU monitoring technology has shifted the concept of ICU care significantly. Specialists who are located in remote areas of the world can now provide care to critically ill patients who are located in various remote areas of the world from a centralized command center.

Digital advances lead to better patient outcomes, reduced burden on ICUs, better staff/ICU/ward operation balancing, and better response time.

Enhancements of Patient Care by Robotics and Automation

More robotic systems are being introduced to surgery, rehabilitation, diagnostics, and operation of hospitals. Robotic-assisted surgery has the advantages of higher accuracy due to better smaller incisions and less post-surgery recovery.

Automation is used to increase the speed of operation of a hospital in:

1. handling of lab samples
2. operating the pharmacy
3. sterilization
4. transport of the patient
5. management of inventory
6. disinfection and sanitation

The Robotics of Healthcare

Robotic automation in laboratories is helping reduce the time taken to perform a test. Both automated analyzers and robotic sample processing systems enable a laboratory to take on a larger workload. Healthcare Robotics is also set to increase with the introduction of collaborative robots and systems guided by AI to perform surgery and the total automation of hospitals.

An Increasing Role of Telemedicine and Remote Care

The process of healing is no longer restricted within the hospital walls. Telemedicine and healthcare technology system integration provide a new model of care that is connected to the patient and is beyond the traditional clinical.

Virtual care systems offer:

1. Specialist consults and visits
2. Remote monitoring and management of patients
3. Management of chronic diseases
4. Rehab from home
5. Prescriptions
6. Fallout follow up of surgery

There is a shift towards decentralized healthcare. Distance-based systems of healthcare provide the care to the patients who need it, and decrease the time patients need to spend in hospital.

Personalized Medicine and Targeted Treatments

Recent innovations have shifted the health industry toward targeted and personalized approaches to medicine. Improvements in molecular diagnostics and genomics are paving the way for biomarkers and customized therapies in medicine.

Areas of medicine that are greatly benefiting from these innovations are:

1. Oncology
2. Rare and rare disease therapy
3. Immunotherapy
4. Disorder management
5. Development of personalized pharmacotherapy

Therapeutic interventions aim to minimize adverse effects and reduce unnecessary burdens on the health system, especially when there is an understanding of the disease and variation in genetics.

With the use of genomics, artificial intelligence in data analytics will transform the healthcare industry by providing the system with personalization features within a short period of time.

Data Security and Protection in Healthcare

With the digitization of healthcare systems, diagnostic and medical facilities are prioritizing theatre cybersecurity. When digitized, patient records, imaging systems, medical devices, and healthcare systems that operate in the cloud, will be exposed to risks.

Increasingly, healthcare companies are investing in

1. Secure cloud infrastructure
2. Encrypted patient data systems
3. Multi-factor authentication
4. Network monitoring solutions
5. AI-powered cybersecurity tools.

Data privacy and integration of cloud systems will be important as the accessibility of digital healthcare services increases.

Affordable and Green Medical Facilities

The hospitals of the future are also committed to sustainable and environmentally responsible health operations.

Sustainable hospitals are benefiting from:

1. Energy-efficient systems
2. Healthcare systems that incorporate intelligent HVAC systems
3. Sustainability in the management of medical waste
4. Designs that incorporate sustainable building
5. Safe and sustainable technologies for water management

A sustainable health system reduces the burden to the environment while improving the operational value of the system and reducing the cost of healthcare in the long run.

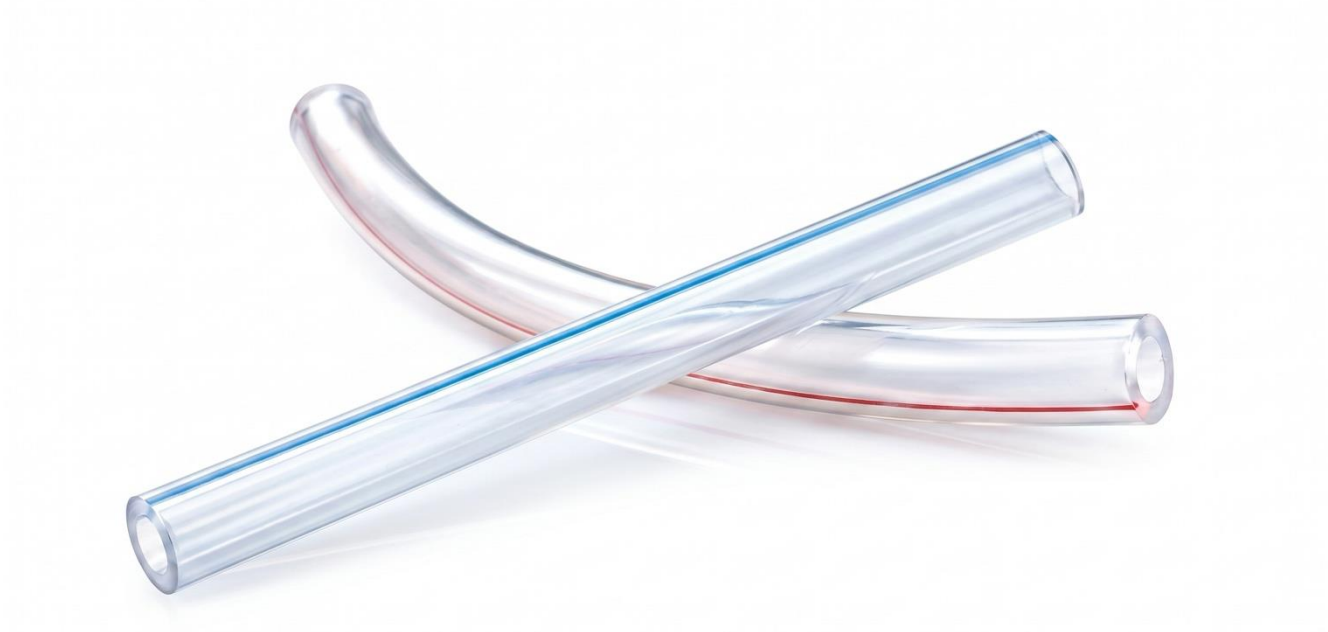
The Path Ahead

Healing the future is where medicine, data, automation, and empathy drive innovation all meet. Things that once felt beyond the realm of possibility are now necessary for the delivery of modern healthcare.

As hospitals adopt AI, robotics, digitally enabled diagnostics, remote care, and precision medicine, the healthcare system becomes a more intelligent, rapid, and integrated system with an emphasis on better outcomes for patients and operational efficiencies.

> The hospitals of the future will no longer be places focused solely on remediation of injury and illness, but rather areas that will anticipate illness, treat illness in a fully automated and seamless infrastructure, and provide care that enriches the experience and the healing process.

Innovation is no longer an option in this busy healthcare environment; it is a given. The diagnostic and critical care systems of the future will be built on this innovation.



Bi-Colour Silicone Tubes: A Functional Approach to **Safer and Smarter Fluid Transfer**

In specific industries like medical devices, pharmaceuticals, and food processing, tubing is crucial to ensuring safety, precision, and reliability in a process. Gradually, minor design changes in tubing have minimized user error to improve function.

One advancement in this arena is the bi-colour silicone tube.

A bi-colour silicone tube uses a design in which a single tube wall is made using a controlled co-extrusion process to layer silicone in separate colours. This can easily be dismissed as a simple change in aesthetics, but it resolves many issues technicians, clinicians, and operators encounter on the job.

Design Configurations Based on Application Needs

The bi-colour tube is highly configurable. Some examples of what can be engineered include:

1. Transparent tubing with a continuous coloured stripe for line identification
2. Dual-layer tubing, where the tubing can have different coloured inners and outers
3. Custom colour bands or markings for depth indication or batch differentiation

The selection of configurations depends on the field of use and the visual control that is needed during the process.

Material and Compliance Considerations

In critical areas, bi-colour silicone tubes are made with medical-grade silicone elastomers and are compliant to the requirements of USP Class VI and ISO 10993. In the area of sterilization, the material should withstand the E-beam sterilization or autoclaving, while maintaining its mechanical integrity and color stability.

Maintaining uniformity in both color distribution and material characteristics becomes imperative in scenarios where traceability and validation are mandated.

What Makes Bi-Colour Tubes Preferable

The benefits of bi-colour tubing from a manufacturing and practical perspective are as follows:

1. Fast Visual Identification in Complex Systems

Multiple tubing lines running in parallel can be managed more easily with a colour stripe or a dual-tone structure. This reduces reliance on labels and minimizes the risk of cross-connection.

2. Better Flow Observation

A contrast layer makes fluid movement more visible and helps in the identification of air bubbles, backflows, or blockages. This is of particular importance for feeding systems or fluid transfer systems in laboratories.

3. Directional Guides for Insertion and handling

In some medical applications, a colored line indicates the maximum depth and the correct vertical orientation for tube insertion. This provides the user with a deeper understanding and better control over the procedure.

4. Better Control of Processes

In the industrial, and especially the pharmaceutical, sectors, the risk of contamination of a product is greatly reduced when different lines, cleaning cycles, or batches of products are coded by color, which also improves control over the processes.

5. Customization with Zero Performance Trade-offs

Bi-colour designs also offer customers the ability to specify and include personalized alterations, such as branding or product identification to meet regulatory requirements, all without impacting the performance of the underlying material.

Production Control: Where Precision is Key

Manufacturing bi-colour silicone tubing demands greater process control than regular extrusion.

Key factors include:

1. Bonding consistency for the two silicone streams during co-extrusion
2. Aligning and visibility of stripes through the length of the tube
3. Evaluating internal and external dimensions and tolerances
4. Confirming that the color pigments have no negative impact on biocompatibility nor the mechanical properties.

Failure to comply to parameters affects the look and loses functional reliability especially in medical applications.

Application Areas

Based on industry practices, two color silicone tubes are generally used for:

1. Feeding and drainage systems in the enteral organs
2. Fluid transport systems in laboratories
3. Processing lines in pharmaceuticals
4. Transportation of food and beverages

These applications utilize the ability to see, control, and manage the flow of fluids that improves their systems.

Conclusion

Bi-colour silicone tubing is a highly practical advancement in tubing design that enhances operational safety and productivity.

The user designs these advancements based on easily identified and controlled flow.

These features are increasingly becoming standard for tubing and are less perceived as optional.

Authored By: **Divya Joshi**

Executive Domestic Marketing
Mail Id: divya.j@amipolymer.com

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Robotic Frey's Procedure for **Paediatric Chronic Pancreatitis**

Chronic pancreatitis in the paediatric demographic presents a formidable clinical challenge. Characterized by debilitating abdominal pain, progressive glandular fibrogenesis, and subsequent exocrine and endocrine insufficiency, the condition severely impacts a child's quality of life and developmental trajectory. For effective pain relief and ductal decompression, the Frey procedure - comprising a local resection of the pancreatic head combined with a longitudinal pancreaticojejunostomy - remains a gold-standard surgical intervention.

However, transitioning this complex reconstruction to a minimally invasive robotic platform requires an exceptional degree of surgical expertise and technological integration.

Inherent Complexities Of The Frey Procedure

The Frey procedure is inherently demanding due to the intricate and highly vascularized anatomy of the hepatobiliary and pancreatic systems.

The primary clinical objective is to radically core out the diseased, calcified tissue of the pancreatic head while meticulously preserving the duodenum, the biliary tree, and the posterior pancreatic capsule. Navigating this surgical plane requires acute awareness of local vasculature and biliary structures, making the margin for error virtually non-existent.

Anatomical Hurdles In Paediatric Patients

Adapting this intervention for a paediatric cohort amplifies the surgical difficulty exponentially. Executing this surgery robotically in a child is extraordinarily demanding primarily due to the inherent fragility of the juvenile pancreatic anatomy. Surgeons are forced to navigate an exceedingly confined operative workspace. Furthermore, the procedure mandates meticulous, watertight reconstruction in immediate proximity to critical vascular networks and delicate ducts.

Paramount to the procedure's long-term success is the absolute precision required to excise the fibrotic tissue while maximally preserving the surrounding viable pancreatic parenchyma, thereby safeguarding the child's future metabolic and digestive functions.

The Da Vinci Advantage In Reconstructive Surgery

To overcome the severe anatomical constraints of paediatric patients, the integration of cutting-edge surgical technology is not just beneficial, but essential. Utilizing platforms like the Da Vinci Robotic Surgical System fundamentally transforms the operative approach. This sophisticated robotic equipment equips operating surgeons with unparalleled biomechanical advantages during the high-stakes reconstructive phases of the surgery.

It delivers a high-definition, magnified 3D spatial visualization of the operative field, providing the vital depth perception necessary for safe micro-dissection around the portal vein and mesenteric vessels.

Additionally, the system's advanced algorithmic software provides seamless tremor filtration, translating the surgeon's macroscopic hand movements into highly precise micro-movements at the tissue level.

The articulated, wristed instruments grant superior dexterity and degrees of freedom that far surpass traditional laparoscopy.

This enhanced articulation is particularly crucial when executing the complex, multi-layered suturing required for a secure pancreaticojejunal anastomosis within a restricted paediatric abdominal cavity.

Securing Superior Clinical Outcomes

In conclusion, the robotic-assisted Frey procedure represents a significant milestone in the surgical management of paediatric chronic pancreatitis.

By synergizing elite surgical proficiency with the biomechanical superiority and precision of advanced robotic systems, multidisciplinary healthcare teams can effectively navigate the unique anatomical hurdles of children.

This technological synergy minimizes operative trauma, accelerates postoperative recovery, and ultimately secures superior long-term clinical outcomes for a highly vulnerable patient population.

Authored by:

Dr Senthil Gnanasekaran
Clinical Lead, Abdominal Organ Transplant & HPB Surgery (Liver, Kidney, Pancreas & Small Intestine)

Dr Senthil Gnanasekaran is a renowned hepatopancreatobiliary and liver transplant surgeon with distinguished expertise in both living and deceased donor liver transplantation. His proficiency extends to advanced procedures for complex liver, pancreatic, and biliary disorders, combining the latest minimally invasive, laparoscopic, and robotic techniques to ensure the best possible outcomes.

As a clinical leader, **Dr Senthil** is deeply committed to comprehensive transplant care, prioritising patient safety using world-class surgical care and multidisciplinary collaboration throughout the treatment journey. He is especially skilled in managing advanced liver disease and complex gastrointestinal conditions, providing tailored solutions with a focus on quality of life.

Dr. Piyush Bawane
Clinical Lead, Medical Gastroenterology.

Dr Piyush Bawane is a highly motivated and compassionate gastroenterologist with over a decade of experience in medical gastroenterology and interventional endoscopy, including ERCP and EUS. He is skilled in advanced procedures and gastric motility studies, with a strong focus on the management of gastrointestinal and liver diseases.

He is proficient in the evidence-based management of gastrointestinal and liver diseases and has extensive experience in handling complex and challenging GI disorders.

Alongside his clinical practice, **Dr Bawane** is actively involved in several arcademic associations and professional organizations. He has contributed to multiple research studies in gastroenterology and has published widely in national and international journals.

Engineering Better Health: Innovations Powering Modern Hospitals

Healthcare is transforming at a fast pace. Modern hospitals expand beyond traditional clinical skills and infrastructure. They serve as sophisticated engineering ecosystems with innovation, intelligence, and digital technology. Advances like AI diagnostics, surgical robotics, smart infrastructure, and patient monitoring systems redefine the delivery, management, and experience of care.

To keep pace with rising expectations, and to further value-based healthcare with better results and reduced resource use, hospitals deploy next-generation technology to improve their ability to provide safe, effective, and efficient patient-centered care.

The future of healthcare is in today's engineering.

Smart Hospitals: The Intelligent Healthcare Ecosystem

Today's hospitals are complex engineering ecosystems where devices, systems, and clinical workflows communicate and integrate in real-time. Smart hospitals use advanced engineering and digital technology to optimize all facets of care delivery and hospital operations.

These **smart, intelligent healthcare facilities utilize:**

1. Connected medical devices
2. Automated patient monitoring
3. Integrated electronic health records
4. Smart asset tracking
5. Advanced HVAC and energy systems
6. AI-based clinical decision systems

7. Contactless patient management

These technologies increase operational efficiency, reduce delays, improve communication, and eliminate medical errors. Hospitals are embracing digital command centers for real-time monitoring of patient flow, bed and equipment status, and emergency management. Innovation is engineering hospitals from care delivery that is reactive to systems that are proactive and data-driven.

Augmenting Clinical Excellence with Artificial Intelligence

Artificial Intelligence (AI) has rapidly advanced in the last few years and is now an invaluable asset in the engineering of healthcare systems. AI technologies enable healthcare professionals to not only improve the efficiency of healthcare systems, but also provide faster and more accurate decisions and diagnoses.

Application of AI technologies in healthcare systems helps with:

1. The analysis of medical images
2. Patient monitoring
3. The automation of clinical workflows
4. The detection of illnesses
5. Alerts for ICU patients
6. Health virtual assistants
7. Automation of clinical documentation

AI technologies in Radiology allows for the identification of abnormalities within medical images, thus expediting the diagnosis and treatment planning. In the context of critical care, AI technologies use complex analytics to interpret and predict small and subtle changes to patient vitals before a patient's condition deteriorates.

AI Technologies will enhance rather than disrupt the clinical professions by shifting the burden of clinical documentation to smart automation and create a positive impact on patient care.

Transforming Patient Care and Surgery with Robotics

Engineering Technologies are transforming patient care and the emergency of post-surgical recovery. Robotic Engineering for surgery has proven to enhance visualization and improve surgical dexterity for less invasive techniques with a reduction in the complications and length of stay for patients in hospital.

Enhancements in modern technologies have led to the use of robotics for:

1. Less invasive surgical techniques
2. Precision surgeries in Orthopedics
3. Robotic assisted therapy
4. Pharmacy robotics
5. Robo logistics
6. Robo sterilization and disinfection

Robotic Surgery is transforming Urology, Cardiac, Gynecology and Neurosurgery.

Automation is transforming healthcare systems as it reduces manual work and integrates workflows within departments.

Engineering the Future of Critical Care

The future of critical care promises the integration of new technologies and engineering techniques into incubators and intelligent connected environments that will allow clinicians to deliver faster interventions, continuous monitoring, and individualized management in real time.

Some advancements in critical care technology include:

1. Smart ventilators.
2. Patient monitoring systems that function without wires.
3. AI-driven notices.
4. Infusion pump technology that is integrated.
5. Management of ICUs from a distance.
6. Dashboards that analyze patient data instantaneously.

The development of technology to manage ICUs from a distance is increasing the availability of care, as intensivists can now oversee patients in multiple hospitals.

These developments enhance clinical care and allow healthcare systems to better staff and allocate their resources.

Diagnostics: Improved Speed and Efficiency

Engineering developments in laboratory diagnostics are creating quicker, more efficient, and more voluminous laboratory tests and automated systems, digital pathology, and molecular diagnostics are leading to greater/preci visual efficiency in pathology and diagnostics.

Some changes to efficiencies in diagnostics include:

1. High-throughput laboratory automation.
2. Digital imaging for pathology.
3. AI for interpreting images of pathology and diagnostics.
4. Diagnostics available at the point of care.
5. Molecular diagnostics.
6. Diagnostics enhanced by the use of cloud computing.

The use of rapid diagnostics is becoming more common in the assessment of emergency medicine, rapidly identifying pathogenic agents, Oncology and Personalizing.

The function of engineering within laboratory innovation is enhancing the clinician's ability to make important diagnostic and treatment decisions, which will ultimately improve patient outcomes.

Evolution of Digital Healthcare

The focus of today's healthcare services is to complement continual improvement in the quality of clinical care with continual improvement in the quality of patient experience.

The following innovations drive patient engagement:

1. Mobile healthcare applications.
2. Self-service, digital patient registration.
3. Virtual consultations.
4. Remote health monitoring.
5. Smart hospital navigation.
6. Tailored communication platforms.

Wrapping health devices and wearable tech help monitor health remotely and aid in preventive and chronic health management.

The future hospital design is based on needs and convenience for patients and is complemented with technological advances.

Engineering a Sustainable Future for Hospitals

The focus on sustainability for engineering solutions in hospital and health care systems has shifted. As hospitals strive to implement more sustainable and smart practices to lower their operational waste and consumption of energy the following health innovations are becoming common place:

1. Energy-efficient healthcare systems
2. Smart healthcare solutions
3. Health systems centered around conservation
4. Solutions to better manage the healthcare system's waste
5. Solar-powered healthcare solutions

The engineering of sustainable health services is a positive practice to manage the costs of health delivery and improve the health system

Digital Safety for Hospitals

Securing digital hospital systems while remaining connected is the challenge of our time. The engineering of health systems is to create safe, connected health services for digital systems and to safeguard health services.

These practices will be seen:

1. Advanced systems of encryption
2. Safe digital interfaces
3. Smart health systems
4. Automated health systems
5. Digital health networks

The systems and services of health care must be trusted and safe. It is essential in sustaining equity in the delivery of healthcare.

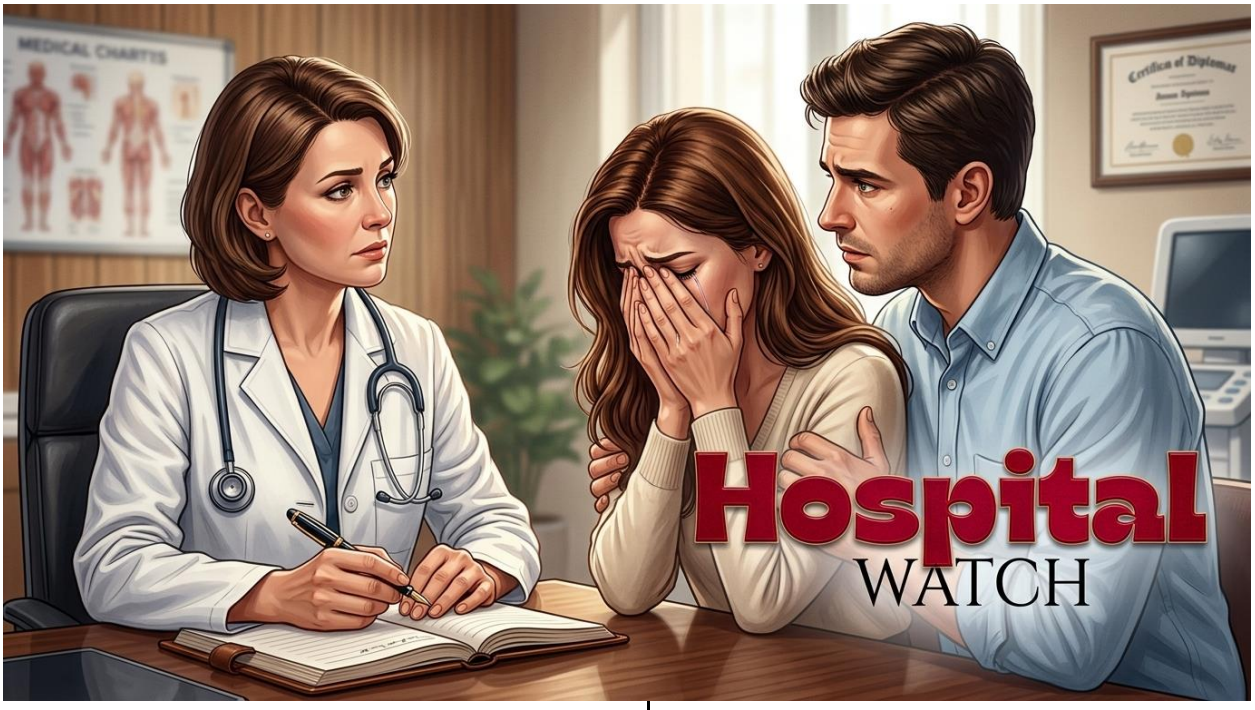
Future Horizons of Engineered Care

Tomorrow's healthcare facilities will integrate advanced architecture, medicine, and automation powered by AI. They will predict the health needs of individuals, provide tailored healthcare solutions, and support real-time, seamless connections among all stakeholders.

Technologies like digital twins, AR-assisted surgeries, nanotechnology, robotics, and AI will markedly improve healthcare services in the near future.

Engineering is no longer hidden in the background of healthcare. It is an apparent cornerstone of evolving patient care, diagnostics, hospital design and infrastructure, and critical care services.

Amid leading innovation, the discontinuity of health and technology in our world will be resolved by engineered, intelligent, and empathetic care systems.



Apollo and Leicester Host Summit on International Education & Careers in the Age of AI

The second edition of the **Apollo-Leicester Education Summit 2026** was held today in the city. Jointly hosted by **The Apollo University, Chittoor** and the **University of Leicester, UK**, the Summit brought together diplomats, academic leaders, and industry experts from the UK and India to help **parents and students who have completed Intermediate education** better understand the future of **international education and careers in the age of AI**.

The summit focused on one of the biggest concerns faced by families today: **how students can prepare for careers in 2030 and beyond**, as industries, technologies, and employer expectations evolve rapidly. Through panel discussions and expert-led sessions, the event explored how education systems must adapt to bridge the growing gap between education and employability.

Delivering the keynote address, **Prof. Daniel Ladley, Pro Vice-Chancellor, Head of College and Executive Dean of the University of Leicester School of Business,** spoke about the growing importance of globally relevant, employability-focused education. He remarked, "Business education today must go beyond theory. At Leicester, we ensure that students graduate with the ability to adapt, solve problems, and work across disciplines and cultures. As educators, we have the responsibility to ensure that education remains closely connected to the realities of industry and the changing nature of work, and are adapting our curricula to reflect that, including integrating AI and 100 hours of work-related learning into every programme"

The summit also featured an insightful panel discussion with **Mr. Gareth Wynn Owen, British Deputy High Commissioner for Andhra Pradesh & Telangana; Prof. Daniel Ladley; Mr. Vishnu Vankayala, Associate Head of International Recruitment at the University of Leicester, and Mr. Vivek Seenivasan, Strategy & Marketing Head at Apollo Knowledge.**

Speaking during the session, **Gareth** highlighted the growing collaboration between India and the UK across education, innovation, and careers. "The UK and India are building a partnership that goes far beyond trade. Education, research, technology, and student mobility are all becoming increasingly important areas of collaboration. For students today, this creates exciting opportunities to gain global exposure, develop future-ready skills, and contribute meaningfully across borders," he said.

The summit featured sessions across business, technology, engineering, and future careers, with discussions centred on artificial intelligence, global employability, digital transformation, and the skills students will need in the coming decade.

Mrs. Swapna Reddy V, Founder & CEO of Evo11ve AI, spoke about how AI is reshaping businesses and industries, **Mr. Elisha Madhu Kumar Karyamsetty, Country Head & CTO of Amada Soft India,** shared insights into the importance of core engineering in innovation, and **Mr. Vishnu Vankayala** shared how students can succeed in the AI era. The audience also engaged in discussions with the speakers on future career pathways.

Adding a motivational perspective to the event, psychologist and leadership management coach **Dr. Gampa Nageshwar Rao** engaged with students and parents on the importance of mindset, clarity, and confidence while making important educational and career decisions.

By bringing together varied perspectives, the Apollo-Leicester Education Summit 2026 created a meaningful platform for students and parents to better understand the evolving global landscape – and how the decisions made immediately after Intermediate education can play a defining role in shaping successful global careers.

IDA Deccan Branch Honours Padma Shri Dr P Vijay Anand Reddy for outstanding contributions to Oncology and Oral Cancer Awareness!

The Indian Dental Association (IDA) Deccan Branch, felicitated Padma Shri awardee **Dr P. Vijay Anand Reddy**, Director, Apollo Cancer Centres, Hyderabad, for his exceptional and distinguished contribution to the field of Oncology, during the CDE Program Series held today at Hyatt Place, Hyderabad.

The Association recognised Dr Reddy's remarkable contributions towards advancing cancer care through clinical excellence, pioneering research, academic mentorship, and compassionate healing that has brought hope and life to countless individuals. He was also acknowledged for his efforts in promoting oral cancer awareness and strengthening the cause of prevention, early diagnosis, and community well-being.

The felicitation was led by **Dr Surya Prasanna**, President, IDA; **Dr Karunakar**, President-Elect, IDA Deccan Branch; and **Dr Srikanth**, Secretary, IDA Deccan Branch; **Dr Sateesh**, Former DCI President; Past Presidents, **Dr YS Reddy**, **Dr Niranjan** & **Dr Sandeep**, EC members **Dr Charan**, **Dr Arjun**, **Dr Prafulla**, **Dr Harish**, **Dr Karteek**, **Dr Geeta**, **Dr Faria**, **Dr Swetha**, **Dr Kundana**, & **Dr Pranavi**.

India Mental Health Alliance Crosses 300 Member Organizations, Becoming the Country's Largest Collaborative for Mental Health

- Cross sectoral organisations from education, gender & livelihood nonprofits, grassroots mental health organisations & caregiver collectives, philanthropies, academic institutions and more
- Milestone development for India's mental health ecosystem with member organisations from 30 States & UT joining a national alliance
- Advancing mental health as a national development priority towards Viksit Bharat

The India Mental Health Alliance (IMHA) today announced that it has crossed 300 member organisations across 30 states and union territories, marking a significant milestone for India's evolving mental health ecosystem.

The India Mental Health Alliance

More than a growth milestone, the development reflects a broader shift across stakeholders towards greater collaboration, shared learning, and coordinated action for mental health, which has long operated in fragmented silos.

IMHA was established on the belief that meaningful progress in mental healthcare requires bringing clinical and lived experience expertise together; aided by resource mobilization from philanthropy, government and the private sector collectively.

Neha Kirpal, Co-Founder, IMHA, said, "Reaching 300 members is significant because of what it makes possible for everyone. When cross-sectoral organizations have a shared alliance to connect, share on-ground learnings across their cultural contexts, and build capacities together; the entire ecosystem becomes stronger and more effective. IMHA's role has been to act as a catalyst and facilitator, creating the possibilities for partnerships, and pathways that enable knowledge, expertise, and support to flow more freely across the nation. This kind of collaborative infrastructure is essential to move mental health from the margins to the mainstream as a developmental priority in our journey towards Viksit Bharat."

Over the past year, this vision has translated into a focused effort to - Connect, Convene, Collaborate, and build Capacity across the mental health ecosystem. IMHA's key initiatives towards these goals in this past year have included:

- A national member directory with QR-enabled discoverability tools for all members, funders and public institutions to connect with organisations from across India
- Active digital communities, including an active nationwide WhatsApp group
- Ongoing member engagement across geographies with regional meet ups

- Building members' capacities through monthly curated sessions and consultations with global experts; themes include organisational strengthening, youth mental health, lived experience expertise, public health integration, cross-sector programming, and engagement with funders and government

Together, these efforts are helping organisations discover one another, exchange knowledge, and collaborate more effectively across the country. Building on these connections, IMHA has also prioritised convening as a core pillar of ecosystem-building by creating spaces for organisations to come together, exchange ideas, and forge partnerships. Through its '**Connecting India for Mental Health**' series, IMHA hosted its first regional meet-up in Mumbai, with upcoming convenings planned in:

1. Guwahati (May 2026)
2. Chennai (August 2026)
3. Bangalore (December 2026)

This builds on the momentum of IMHA's first Annual Convening last year, a landmark closed-door gathering of 130+ Alliance members from across the country for deeper dialogue and partnership-building; the second edition of the Annual Convening to be announced shortly for the month of Oct/Nov 2026. This culture of shared learning is further anchored in IMHA's Knowledge Centre, a hub for credible, India-specific mental health resources. The platform currently hosts 300+ curated resources, including toolkits, capacity-building materials, lived experience-led resources, laws and policies, landscape reports, and data-driven insights. Designed for NGOs, funders, policy makers, students and mental health professionals; the Knowledge Centre will now expand into video-based learning from Indian experts and increased regional language content to deepen contextual relevance.

Vasvi Bharat Ram, Founder Chairperson, India Mental Health Alliance, says, "*A truly developed India must also be a mentally healthy India. Economic growth, educational outcomes, workforce productivity, and social cohesion are deeply linked to the mental well-being of citizens. Building this requires coordinated investment, long-term thinking, and shared responsibility across multiple fronts, from systemic capacity-building and workforce development to knowledge creation and improving the overall quality of care. Philanthropic capital, government funding, and private sector investment each have a distinct role to play to build a mental health ecosystem that is more accessible, resilient, and responsive to India's needs.*"

Therefore, IMHA is actively expanding the pool of unrestricted philanthropic capital dedicated to long-term ecosystem-building in mental health, with recent pledges from donors such as Manisha Dhawan from the Convergence Foundation of India and renowned philanthropist Dr. Pheroza Godrej.

As India moves towards 2047, IMHA's expanding strength reflects a new, decentralised approach to mental health: one rooted in equity, shared ownership, cross sectoral collaboration; with lived experience experts and their carers at the centre of all care design.

About The India Mental Health Alliance

The India Mental Health Alliance (IMHA) is a Section 8 not-for-profit organisation launched in 2023 as a partnership between Vasvi and Ashish Bharat Ram, Amaha Health and Children First. IMHA is a cross-sectoral platform working to strengthen India's mental health ecosystem by convening stakeholders, building capacity, and catalysing collaboration at scale. As a growing national alliance of 300 cross-sectoral member organisations from 30 states & UTs, IMHA helps mobilize existing strengths, identify care gaps, and enables stronger coordination & collaboration pan-India. Its capacity-building efforts support community organisations, healthcare & educational institutions, as well as individual mental health practitioners through multi-channel knowledge sharing and learning initiatives.

IMHA also hosts a growing Knowledge Centre with 300+ multilingual resources to democratise access to mental health information. Through its work, IMHA aims to mainstream mental health as a national development priority; improve quality of care; embed Lived Experience Expertise (LEE) in care design and practice; champion social justice in mental health; and mobilise greater long-term, unrestricted philanthropic capital to support systemic, scalable solutions across India.

Livasa Hospitals Appoints Kamal Kant Gambhir as Chief Financial Officer

Livasa Hospitals has announced the appointment of Mr. Kamal Kant Gambhir as its Chief Financial Officer, further strengthening the leadership team as the hospital network continues its growth and expansion across North India.

Mr. Gambhir brings with him over 35 years of rich experience in strategic finance, governance, business transformation, and leadership across healthcare, manufacturing, telecom, and multinational organizations.

He has held key leadership roles with reputed organizations including SCL Lifesciences Limited as Chief Financial Officer and Gates, a US based multinational organisation, where he served as Senior Finance Director.

Livasa Hospitals

Anurag Yadav, Chief Executive Officer – Livasa Hospitals, welcomes Mr. Kamal Kant Gambhir to the organisation as Chief Financial Officer

Known for building robust financial systems, driving operational efficiency, and enabling sustainable business growth, Mr. Gambhir's appointment comes at a significant time as Livasa Hospitals accelerates its expansion plans and strengthens its commitment to quality, affordable and patient-centric healthcare.

Welcoming him to the organization, Mr. Anurag Yadav, Chief Executive Officer, Livasa Hospitals, said, "We are pleased to welcome Mr. Kamal Kant Gambhir to the Livasa family. His deep financial expertise, strategic perspective, and proven leadership track record will be invaluable as we continue to scale our network and build a future-ready healthcare institution."

A Chartered Accountant, Mr. Gambhir is also widely respected as a mentor and motivational speaker, with a passion for developing future leaders and contributing to social welfare initiatives.

Livasa Hospitals is a multi-speciality tertiary care hospital network with 750+ beds across Mohali, Amritsar, Hoshiarpur, Nawanshahr, and Khanna. Supported by 250+ experienced doctors and 40+ super specialities, the network is committed to delivering quality, patient-centric, and affordable healthcare. With upcoming hospitals in Ludhiana and other key locations, Livasa Hospitals continues to strengthen access to advanced healthcare across North India.

Athulya Senior Care Inks Landmark MoU with SingHealth to Advance Senior Care, Training, and Research Collaboration

Ms. J. Krishna Kavya Founder - Director, Athulya Senior Care with Ms. Vijaya Rao, Director, International Collaboration Office, SingHealth

Athulya Senior Care, India's largest assisted living provider, has entered into a Memorandum of Understanding (MoU) with SingHealth, Singapore's largest public healthcare cluster, to explore collaboration across medical services, professional training, research, and knowledge exchange.

SingHealth brings together an extensive network of institutions spanning acute hospitals, specialist centres, polyclinics, and community hospitals. These include Singapore General Hospital, KK Women's and Children's Hospital, Changi General Hospital, and Sengkang General Hospital, alongside national specialty centres, the National Cancer Centre Singapore, National Dental Centre Singapore, National Heart Centre Singapore, National Neuroscience Institute, Singapore National Eye Centre, and National Skin Centre, as well as SingHealth Polyclinics and SingHealth Community Hospitals.

Athulya
Senior Care

The MoU partnership reflects a shared commitment to advancing the quality and accessibility of senior care amid growing demand driven by ageing populations.

Bringing together Athulya's expertise in senior living and continuum care with SingHealth's internationally recognised clinical and academic capabilities, the partnership aims to strengthen care delivery and build institutional capacity across both organizations.

Under the MoU, both organisations will explore structured training programmes for doctors, nurses, and allied healthcare professionals, aiming to train capable professionals annually, focused on strengthening clinical competencies and caregiving standards.

The collaboration will also facilitate the exchange of scientific, academic, and technical information, including relevant materials protected by intellectual property rights in accordance with agreed protocols, while enabling the identification of opportunities for joint research and development, co-authored publications, and participation in academic and scientific forums such as seminars and conferences

In addition, the partnership will support the organisation of and participation in medical conferences, courses, workshops, exhibitions, and other forums of mutual interest, with plans to conduct joint programmes annually. It will further promote the operation of joint medical training and education programmes to raise competency levels. It will also enable the exchange of information relating to medicine, subject to confidentiality obligations, and promote ongoing engagement between the two organisations through knowledge-sharing platforms and regular interactions, including periodic bilateral meetings to review progress and expand areas of cooperation.

Speaking on the collaboration, **Mr. Srinivasan G, CEO & Founder, Athulya Senior Care,** said, *"This collaboration with SingHealth represents an important milestone in our journey to enhance senior care in India. By integrating Athulya's care delivery experience with SingHealth's clinical expertise, we aim to further strengthen our capabilities across medical services, training, and research. This partnership will support the adoption of global best practices while contributing to the development of a more robust and responsive senior care ecosystem."*

Ms. Vijaya Rao, Director, International Collaboration Office, SingHealth, said, *"We are pleased to collaborate with Athulya Senior Care in exploring opportunities to advance medical services, education, and research. This partnership underscores our commitment to international collaboration and knowledge exchange. Through this engagement, we look forward to supporting capability building, sharing clinical expertise, and contributing to improved care outcomes, particularly in the area of senior and community care."*

Adding to this, Mr. London Lucien Ooi, Group Director, International Collaboration Office, SingHealth, said, "This collaboration reflects SingHealth's ongoing commitment to building meaningful international partnerships that drive the exchange of knowledge, clinical expertise, and best practices. By working closely with Athulya Senior Care, we see strong potential to support capability development in senior care, while fostering shared learning and innovation across healthcare systems."

The collaboration is expected to lay the foundation for sustained engagement between the two organisations, with a focus on improving care standards, advancing professional development, and enabling research-led innovation in senior care.

About Athulya Senior Care

Athulya Senior Care, India's Largest Assisted Living Provider, headquartered in Chennai, India, with 1,500+ beds across 12+ locations in five cities Chennai, Bengaluru, Kochi, Hyderabad, and Coimbatore, has proudly served over 45,000+ seniors. Athulya delivers a comprehensive senior care ecosystem encompassing Assisted Living, Mind & Memory Care, Transition Care, Rehabilitation, and Palliative Care. Designed to meet international safety & quality standards, Athulya is transforming eldercare in India by prioritizing dignity, comfort, and compassionate support.

To know more, log onto: www.athulyaseniorcare.com.

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S.L. Raheja Hospital Mumbai Announces the Launch of Enhanced Diagnostics and Orthorobo Care to Mark 45 Years of Clinical Excellence

As S.L. Raheja Hospital – A Fortis Associate marks its 45th year of delivering trusted healthcare, it reinforces its commitment to clinical excellence with the launch of two close-to-heart initiatives: a state-of-the-art Histopathology Department and the introduction of a robotic-assisted orthopaedic surgery system. These developments were unveiled today at a special event at the hospital, graced by honourable trustees Mrs. Suman Raheja and Mrs. Jyoti Raheja.

S.L. Raheja Hospital Mumbai's trustees & clinicians at the inauguration of advanced Histopathology Dept. & Orthopedic Robotic System, advancing precision & patient care in the city

The Histopathology Department, originally established by late Dr. Anita Borges, was relaunched in its upgraded form, seamlessly blending legacy, deep clinical, expertise & enhanced capabilities.

S.L. RAHEJA HOSPITAL

A Fortis ASSOCIATE

Recognised as a coveted Centre of Excellence for Histopathology by leading cancer institutes across India and internationally, the department has, to date, analysed over 2,20,000 samples till date since its inception in 2003. The department receives samples from neighbouring countries such as Bangladesh and Nepal, as well as from across major Indian states, covering a wide spectrum of complex cancer diagnoses, including lymphoma, breast, soft tissue, gynaecological, bladder, prostate, lung, and gastrointestinal cancers. The upgraded department is equipped with advanced quality control measures and diagnostic protocols that will ensure accurate, prompt, and dependable results, which will facilitate better decision-making among healthcare providers.

In its continued efforts to leverage technology for better patient care, the hospital also introduced orthopaedic robot which will be a smart assistant to the surgeon and enhance accuracy, precision & patient outcomes. This version of robot that would be used for orthopaedic surgeries facilitates better implant positioning, decreased trauma, precise alignment, and faster recovery times for patients undergoing Unilateral Knee Replacement (UKR) and Total Hip Replacement (THR).

Highlighting the significance of these advancements, **Dr Kunal Punamiya, CEO, S.L. Raheja Hospital, Mahim – A Fortis Associate**, added, "*Over 45 years into our journey of delivering exceptional healthcare, these two launches underscore our commitment to enhancing patient experiences across the continuum of care: from diagnosis to treatment.*

The upgraded Histopathology Department will enable clinicians to make faster, more informed decisions, while our robotic-assisted orthopaedic surgery system will bring greater precision to surgical procedures. Through these advancements, we aim to deliver improved clinical outcomes and enhanced patient experiences."

Dedicating this department to late **Dr. Anita Borges, Dr Pravin Mahajan, HOD – Histopathology, S.L. Raheja Hospital, Mahim – A Fortis Associate** said, "*As a centre of excellence since its inception, our Histopathology Department has built its reputation on a simple promise, accuracy, integrity, and trust. Over the years, it has been called upon across the country to provide second opinions in complex cases, reflecting the deep confidence clinicians place in its expertise. At its heart, however, this journey has always been about patients. Every diagnosis carries a responsibility, and every report a human story.*"

The department at S.L. Raheja Hospital, Mahim has been further reinforced with a dedicated team of specialist doctors like Dr Maria Alina DeSouza, Consultant – Histopathologist & Dr Vivek Parameshwar, Consultant - Histopathologist, adding to its strong capability of diagnostics and clinical precision.

Commenting on the launch of the orthopedic robotic system, **Dr. Lalit Panchal, Senior Consultant – Orthopedic Surgery, S.L. Raheja Hospital, Mahim - A Fortis Associate** said, "*Robotic-assisted surgery acts as an intelligent support to the surgeon, helping improve precision and surgical outcomes. It allows for better planning and execution of procedures. The system helps deliver safer, less invasive surgeries with natural results and faster recovery.*"

The orthopaedic robotic programme at S.L. Raheja Hospital, Mahim is supported by a skilled surgical team, including Dr Vaibhav Kasodekar, Senior Consultant - Orthopaedic Surgeon & Dr Anoop Dhamangaonkar, Consultant - Joint Replacement and Orthopaedic Surgeon, who bring extensive experience in advanced joint replacement procedures.

With these launches, S.L. Raheja Hospital – A Fortis Associate reinforces its commitment to delivering quality healthcare, with a strong focus on outcomes, safety, and patient experience.

About IHH Healthcare ("IHH")

IHH is a leading multinational healthcare provider shaping the future of care. Driven by our aspiration to Care. For Good., we unite medical excellence and innovation, pushing boundaries through our trusted brands such as Acibadem, Gleneagles, Fortis, Island, Mount Elizabeth, Pantai, Parkway and Prince Court. Across 10 countries, including Malaysia, Singapore, Türkiye, India and Greater China, our 70,000-strong team delivers world-class excellence every day, within and beyond our 140 healthcare facilities, including more than 80 hospitals. Our comprehensive services span the full healthcare continuum, from primary and ambulatory to quaternary care, complemented by diagnostics, imaging, rehabilitation, telehealth and home care. In partnership with our stakeholders, IHH is advancing value-based care, building a sustainable healthcare ecosystem and creating meaningful impact, as we work towards our vision to become the world's most trusted healthcare services network. www.ihhhealthcare.com

Fortis Hospital Manesar Launches "Fortis Cancer Institute" - Region's First Dedicated Cancer Institute, Redefining Technology-Driven Oncology Care

Fortis Hospital Manesar, today launched Fortis Cancer Institute, the first dedicated cancer institute in Manesar, marking a significant leap in technology and precision led cancer care.

The Fortis Cancer Institute at Manesar brings together a wide spectrum of next-generation cancer treatment technologies and specialised interventions under one integrated platform - designed to deliver comprehensive, personalised, and outcomes-driven cancer care.

Left to Right : Dr Vinay Samuel Gaikwad, Senior Director Surgical Oncology, Dr Pooja Babbar, Consultant Medical Oncology, Dr Mansi Chowhan, Senior Consultant, Surgical Oncology

Fortis Cancer Institute, Manesar is backed by the latest healthcare infrastructure which includes Da Vinci Xi robotic surgery system, HIPEC (Hyperthermic Intraperitoneal Chemotherapy), PIPAC (Pressurized Intraperitoneal Aerosolized Chemotherapy), HAIP (Hepatic Artery Infusion Pump) chemotherapy, fluorescence-guided breast surgery, oncoplastic breast surgery, a dedicated lymphedema clinic, and organ-specific oncology programmes designed to deliver highly personalised treatment. The institute also places strong emphasis on precision oncology, supported by a multi-disciplinary tumor board, alongside newer treatment approaches such as immunotherapy, targeted therapy, molecular oncology, and genetic counseling and testing, enabling more tailored treatment decisions for complex cancer cases.

Speaking at the launch, Dr. Vinay Samuel Gaikwad, **Senior Director, Surgical Oncology, Fortis Hospital, Manesar** said, "*The future of oncology lies in combining surgical precision with personalised treatment pathways. At Fortis Cancer Institute, our focus is on using advanced technologies to make cancer treatment more targeted, less invasive, and more effective for every patient.*"

Dr. Pooja Babbar, Consultant, Medical Oncology, Fortis Hospital, Manesar said, "*Cancer care today is no longer defined by a single treatment approach. By integrating molecular diagnostics, targeted therapies, and collaborative decision-making, we are creating a more comprehensive model of care that can improve both outcomes and quality of life.*"
Dr. Mansi Chowhan, Senior Consultant, Surgical Oncology, Fortis Hospital, Manesar said,

"What makes modern oncology different is the ability to treat each cancer uniquely. Through genetic testing, immunotherapy, and organ-specific expertise, we are able to design treatment strategies that are far more precise than conventional care."

Abhijit Singh, Facility Director, Fortis Hospital Manesar, said, "*The launch of the Fortis Cancer Institute at Manesar marks a significant step in our mission to bring world-class, advanced cancer care closer to patients in Manesar and surrounding regions. At a time when cancer cases are rising globally, there remains a critical gap in accessible, high-quality treatment. Fortis Cancer Institute, Manesar is designed to bridge this need, delivering cutting-edge technology, multidisciplinary expertise, and some of the finest oncologists to ensure comprehensive, patient-centric care.*"

About Fortis Healthcare Limited

Fortis Healthcare Limited is a leading integrated healthcare delivery service provider in India. The healthcare verticals of the company primarily comprise hospitals, diagnostics, and day care specialty facilities.

Currently, the company operates 36 healthcare facilities (including JVs and O&M facilities) across 12 states and union territories. The Company's network comprises over 6,000 operational beds (including O&M beds) and 400 diagnostics labs.

P. D. Hinduja Hospital Strengthens Orthopaedic Care with Advanced Robotic-Assisted Knee and Hip Replacement

P. D. Hinduja Hospital & Medical Research Centre strengthens its orthopaedic care capabilities with the advanced, next-generation CORI Surgical System for robotic-assisted knee and hip replacement surgeries at both its Mahim and Khar units.

The image-free robotic-assisted technology is designed to support greater surgical precision, personalised joint replacement planning, improved joint alignment, and enhanced surgical accuracy during procedures.

The CORI Surgical System, developed by Smith+Nephew, is a handheld robotic-assisted platform that enables surgeons to plan and perform total knee, partial knee, hip and complex revision joint replacement surgeries with enhanced accuracy and real-time intraoperative data. Unlike many conventional robotic systems, the platform does not require a pre-operative CT scan, thereby reducing radiation exposure for patients while making the surgical workflow more efficient and patient-friendly.

P. D. HINDUJA HOSPITAL
& MEDICAL RESEARCH CENTRE

The technology maps the patient's knee or hip anatomy during surgery and assists surgeons in creating a highly personalised surgical plan tailored to the patient's unique anatomy. It also provides real-time data and haptic feedback, helping surgeons achieve millimetre-level precision while protecting surrounding healthy bone and soft tissues.

This allows for more accurate implant positioning, improved joint alignment and stability, controlled bone preparation and a more natural feel after surgery.

Robotic-assisted joint replacement can particularly benefit patients suffering from severe knee arthritis, chronic joint pain affecting daily activities, knee deformities or instability, and joint damage that has not responded adequately to medication, physiotherapy, or other conservative treatment approaches. The technology is expected to support quicker rehabilitation, reduced post-operative discomfort, improved mobility, and enhanced long-term implant performance.

As a special introductory offering, robotic-assisted knee and hip replacement surgeries using the CORI Surgical System will be provided at no additional cost for a limited period at P. D. Hinduja Hospital & MRC.

Mr. Gautam Khanna, CEO, P. D. Hinduja Hospital & Medical Research Centre, said, "At P. D. Hinduja Hospital, we remain committed to bringing world-class medical innovations and advancements to our patients. Offering the advanced CORI robotic-assisted joint replacement system marks another important step in strengthening our orthopaedic capabilities. This technology enables our clinicians to deliver more precise, personalised and data-driven care while improving patient outcomes and recovery experience."

Dr. Sanjay Agarwala, Director – Professional Services and Section Head, Orthopaedics & Traumatology, P. D. Hinduja Hospital & Medical Research Centre, said, "The CORI Surgical System allows surgeons to take a far more personalised and precise approach to joint replacement surgery. The technology provides real-time information during surgery, helping us make informed decisions regarding implant positioning, alignment, and tissue balance. The robotic system does not replace the surgeon; rather, it enhances surgical judgement and precision through advanced computation and real-time feedback."

He further added, "What earlier depended largely on surgical experience and tactile assessment can now be quantified with data and visual simulation during the procedure itself. This enables greater consistency, accuracy and refinement in surgery, which ultimately translates into better outcomes, faster recovery and improved confidence for patients. One of the key differentiators of the CORI system is that it can also be used for complex revision joint replacement surgeries, making it a highly versatile robotic platform."

With this offering, P. D. Hinduja Hospital & Medical Research Centre continues to integrate globally advanced technologies with clinical expertise to deliver personalised, precise, and patient-centric care.

*For more information about robotic-assisted knee and hip replacement at P. D. Hinduja Hospital & MRC, please visit:*https://www.hindujahospital.com/speciality/centre-orthopedic-care/orthopaedics/

Healthium MedTech Supports GIMS In Delivering Advanced Paediatric Orthopaedic Surgeries For 1,000+ Children Annually

Government Institute of Medical Sciences (GIMS) ready for advanced Paediatric Orthopaedic Surgeries, to benefit 1,000+ children annually

GIMS, Greater Noida, is now equipped to deliver advanced paediatric orthopaedic surgeries, enabling timely and specialised care for children with conditions such as clubfoot, limb deformities and complex fractures. This milestone has been achieved under a CSR initiative supported by Healthium MedTech and implemented by Plan International (India Chapter)

The Government Institute of Medical Sciences (GIMS), Greater Noida, with support from Healthium MedTech's CSR initiative and implemented by Plan International India Chapter, is now fully equipped to undertake advanced paediatric orthopaedic surgeries.

In a major boost to child healthcare, the institute can now treat conditions such as developmental dysplasia of the hip (DDH), clubfoot, limb deformities, fractures and complex bone disorders.

With the installation of specialised equipment including the Midas Rex MR8 High Speed Electric Drill System, Paediatric Hip Plating Set, Paediatric and Small Bone Drill & Saw System, Paediatric Orthopaedic Instrument Set and a C-Arm Machine, GIMS is now ready to deliver precise, safe and age-appropriate surgical care for children.

India faces a significant burden of paediatric orthopaedic conditions, with 1 to 2 percent of children born with disorders such as clubfoot, and many others developing deformities due to trauma, infections or untreated conditions.

In states like Uttar Pradesh, limited access to specialised care often delays treatment, increasing the risk of complications, disability and higher costs.

Addressing this gap, the strengthened infrastructure at GIMS is expected to benefit over 1,000 children annually, enabling timely interventions and reducing the need for referrals outside the region.

Speaking at the launch, the ***Chief Guest, Dr. G.N. Singh, Adviser to the Hon'ble Chief Minister, Uttar Pradesh*** said, "This initiative reflects our commitment to ensuring that every child, regardless of background, has access to quality and timely healthcare. Strengthening public health institutions through such partnerships is essential to building an inclusive and equitable healthcare system."

Dr. (Brig.) Rakesh Kumar Gupta, Director General, GIMS, emphasised the institution's enhanced capability, stating,"With this advanced equipment, GIMS is now prepared to handle complex paediatric orthopaedic cases with greater precision and safety. This will significantly reduce referrals and ensure that children receive timely treatment closer to home."

Highlighting the organisation's commitment to strengthening healthcare access, ***Anish Bafna, CEO & MD, Healthium Medtech*** said, "At Healthium, we are focused on improving clinical outcomes by enabling both innovation and access. Supporting initiatives such as the GIMS and Plan International India Chapter project reflects our effort to strengthen care delivery systems and equip healthcare providers with the tools needed to deliver specialised paediatric orthopaedic care. By enhancing on-ground capabilities, we aim to ensure that timely, reliable treatment reaches children who need it the most."

Shri Mohammed Asif, Executive Director, Plan International (India Chapter), said, "Through this partnership, we are strengthening access to specialised paediatric healthcare for vulnerable communities. This intervention will directly benefit over 1,000 children every year, ensuring they receive timely, safe and life-changing orthopaedic treatment without financial or geographic barriers."

He highlighted the importance of such collaborations, noting that public-private partnerships are key to expanding access to specialised healthcare services for underserved populations.

The launch event included a ceremonial inauguration, screening of an impact film, addresses by dignitaries, beneficiary testimonials, and the formal handover of equipment to the GIMS orthopaedics department.

With this initiative, GIMS is emerging as a critical centre for paediatric orthopaedic care in western Uttar Pradesh, ensuring that children can access advanced treatment, regain mobility, and lead healthier, more independent lives.

About Government Institute of Medical Sciences (GIMS)

Established by the Government of Uttar Pradesh in 2016, Government Institute of Medical Sciences (GIMS), Greater Noida, is an autonomous tertiary care teaching hospital and medical institution located in Kasna, Greater Noida.

GIMS has emerged as a leading public healthcare institution serving Greater Noida, Gautam Buddha Nagar and western Uttar Pradesh.

The institute operates a 500+ bed multi-specialty hospital equipped with advanced medical infrastructure, modern operation theatres, emergency and trauma care services, intensive care units and specialised departments across orthopaedics, paediatrics, surgery, cardiology and critical care. Alongside delivering affordable and quality healthcare, GIMS is also focused on medical education, research and innovation with a vision to become a centre of excellence in patient care and clinical advancement.

About Healthium

Healthium Medtech Limited is a global medtech company focused on products used in surgical, post-surgical and chronic care. The company's portfolio includes state-of-the-art solutions in the Advanced Surgery, Advanced Wound Care, Arthroscopy and Infection Prevention segments.

The vision is to deliver access to precision medtech for every patient, globally and each day, we inch closer to our goal.

About Plan International (India Chapter)

Plan International (India Chapter) is a nationally registered not-for-profit organisation working to advance children's rights and equality for girls across India. A member of the global Plan International federation, the organisation partners with governments, institutions and communities to improve access to healthcare, education, child protection, skilling and sustainable livelihood opportunities for vulnerable children and families.

With programmes across multiple states, Plan International (India Chapter) focuses on creating long-term social impact through community-led initiatives in health, education, gender equality and adolescent empowerment.

Medanta Strengthens Paediatric Excellence with Appointment of Dr. Shalini Tyagi as Director at Noida Hospital

Appointment reinforces Medanta's commitment to advancing specialized pediatric respiratory and allergy care in NCR

Medanta, one of India's leading multi-specialty healthcare providers, has announced the appointment of Dr. Shalini Tyagi as **Director, Paediatric Care** at its Noida unit. The appointment marks a significant step in Medanta's ongoing efforts to strengthen its pediatric super-specialty services and expand access to advanced, patient-centric care for children in the National Capital Region, bringing world-class expertise closer to residents of Noida. With over two decades of clinical experience, Dr. Tyagi brings rich expertise in pediatrics with a strong focus on pediatric pulmonology. Her clinical work has been centered on the diagnosis and management of complex respiratory conditions in children.

Known for her evidence-based approach and emphasis on early diagnosis and long-term disease management, she has played a key role in improving outcomes for pediatric patients with chronic respiratory conditions.

Dr. Naresh Trehan, Chairman and Managing Director, Medanta said, "We are delighted to welcome Dr. Shalini Tyagi to Medanta. With a distinguished background in managing respiratory disorders in children, including asthma, allergies and chronic lung conditions, Dr. Tyagi brings with her a wealth of clinical expertise and strong academic credentials. Her addition to our paediatrics department in Medanta Noida marks a meaningful step forward in our ongoing commitment to clinical excellence and compassionate, patient-centered care."

Dr. Tyagi completed her MBBS from B.J. Medical College, Ahmedabad, followed by an MD in Pediatrics from NHL Medical College, Ahmedabad and a DNB in Pediatrics from NBE, New Delhi. Over the course of her career, she has actively contributed to academic programs, physician training initiatives, and national conferences, particularly in the fields of pediatric pulmonology and allergy. Her work reflects a strong commitment not only to clinical excellence but also to advancing awareness and capability in managing pediatric respiratory diseases in India.

Speaking on her appointment **Dr Shalini Tyagi, Director, Paediatric Care, Medanta Hospital Noida** said, *"I am delighted to join Medanta at a time when the need for specialized pediatric care is growing rapidly. My focus will be on strengthening comprehensive respiratory and allergy services for children through early diagnosis, evidence-based treatment, and a multidisciplinary approach. I look forward to working with the team to deliver high-quality care and improve long-term health outcomes for children across Delhi-NCR."*

About Global Health Limited (Medanta)

Founded by Dr. Naresh Trehan, a world-renowned cardiovascular and cardiothoracic surgeon who has been awarded the prestigious Padma Bhushan and the Padma Shri, the third- and fourth-highest civilian awards in India, and the Dr. B.C. Roy Award in recognition of his distinguished contribution to medicine.

Global Health Limited (the "Company") is one of the largest private multi-specialty tertiary care providers operating in the North and East regions of India, with key specialties cardiac science, neurosciences, oncology, digestive and hepatobiliary sciences, orthopedics, liver transplant, and kidney and urology, according to the report titled "An assessment of the healthcare delivery market in India, September 2022" by CRISIL Limited.

Under the "Medanta" brand, the Company has a network of six hospitals currently in operation (Gurgaon, Indore, Ranchi, Lucknow, Patna and Noida). Spanning an area of 5.6 million sq. ft., its operational hospitals have 3,579 installed beds as on December 31, 2025. It also has four upcoming hospitals in Mumbai, Pitampura - New Delhi, South Delhi and Guwahati. The Company provides healthcare services in over 30 medical specialties and engages over 2,300+ doctors led by highly experienced department heads.

For more information:
Sumantika Choudhury | sumantika.choudhury@medanta.org | 9830056185
Apoorva Sharma | apoorva.sharma@adfactorspr.com | 9999739452

Sterling Hospitals' "Detox Run 2026" inspired Peoples to embrace liver health

In a powerful blend of fitness, community participation, and health advocacy, Sterling Hospitals, Vadodara, successfully organized the **Sterling Detox Run 2026**, transforming the city's Race Course Road into a vibrant hub of energy, awareness, and purpose. The 5 km community run witnessed enthusiastic participation from over 1,000 citizens, including families, students, healthcare professionals, and fitness enthusiasts - each united by a shared commitment to better health and disease prevention.

The run was flagged off on Sunday, 03 May, 2026 at 6:30 AM by the **Chief Guest, Mr. Arun Mahesh Babu, Municipal Commissioner, Vadodara** and **Mr. Narsimha Komar, Commissioner Of Police, Vadodara and Additional Director General Of Police** who applauded the initiative and highlighted the role of public participation in building a healthier city. The morning commenced at 5:30 AM with an energetic Zumba warm-up session, setting an enthusiastic tone for the day. Participants from all age groups - from young children to senior citizens - completed the 5 km route through the city, symbolizing collective determination toward healthier lifestyles.

The run concluded at the hospital premises, where participants were welcomed into a specially curated "Detox Zone" offering antioxidant-rich refreshments and health guidance.

The initiative specifically highlighted the rising concern of liver-related ailments. **Dr. Prasad Muglikar, Group Medical Director of Sterling Hospitals** shared insights into the scientific foundation of the event. "The liver is the body's primary filtration system, and its efficiency is directly linked to physical activity. Movement stimulates the lymphatic system and improves metabolic health. Through this Detox Run, we aim to educate the public that regular exercise is the most effective way to 'detox' the body and prevent fatty liver disease and other lifestyle disorders," noted Dr. Muglikar.

Mr. Santosh Marathe, MD & CEO of Sterling Hospitals said, "The Detox Run 2026 is in continuation of Sterling Hospitals' vision to influence lifestyle modifications by directly engaging with the community. With 25 years of our legacy, Sterling Hospitals offers comprehensive healthcare solutions across our six units in Gujarat. Regular exercise, a balanced diet and a fair balance between work and personal life are encouraged through such events."

The event was managed by Cyruns. Participants were also provided with wellness kits, including official event T-shirts and access to exclusive health check-up offers, encouraging them to continue their health journey beyond the event.

The initiative concluded with a collective pledge, where participants committed to adopting healthier lifestyles, prioritizing regular health screenings, and spreading awareness about liver health and cancer within their communities.

Through the Sterling Detox Run 2026, Sterling Hospitals has taken a significant step forward in reinforcing the message that health awareness-especially regarding life-threatening diseases like cancer-must become a continuous community effort.

The event stands as a reminder that small, consistent lifestyle changes can lead to a healthier future and potentially save lives.

About Sterling Hospitals:

In Western India, Sterling Hospitals, a private hospital network, dominates the market and offers top-notch medical care. Since its founding in 2001, the hospital has been a leader in the field by offering patients the best possible medical and surgical care.

The Sterling Group has successfully constructed state-of-the-art secondary care facilities in Ahmedabad, Vadodara, Rajkot and Gandhidham, as well as tertiary care multi-specialty hospitals.

The fact that Sterling Hospitals is the first corporate hospital in Gujarat to receive NABH accreditation is evidence of its dedication to providing the highest quality medical treatment.

The hospital offers a variety of crucial disciplines, such as cardiology and CVTS surgery, neurology and neurosurgery, nephrology and urology, Orthopaedics and Trauma, liver and renal transplantation (cadaveric and live), GI medicine and surgery, haematology, bone marrow transplant, and oncology.

All India Institute of Medical Sciences and Medanta Ranked Among World's Best Hospitals 2026

India's healthcare sector received a major global boost after All India Institute of Medical Sciences, Medanta, Christian Medical College, and Postgraduate Institute of Medical Education and Research secured positions among the world's top hospitals in the latest international healthcare rankings.

The recognition highlights India's growing strength in advanced clinical care, medical research, organ transplantation, oncology, and robotic surgery. Experts believe the rankings will further strengthen India's position as a global medical tourism destination.

Healthcare analysts noted that Indian hospitals are increasingly adopting AI-assisted diagnostics, precision medicine platforms, and integrated digital healthcare systems to improve patient outcomes and operational efficiency.

Private hospital chains and government institutes alike are now investing aggressively in advanced ICUs, molecular diagnostics, and minimally invasive surgical technologies to compete with leading global healthcare institutions. Industry observers believe India's hospital sector is entering a new growth phase driven by international patient inflow, healthcare digitization, and expansion into Tier-2 and Tier-3 cities.

Apollo Hospitals Announces Major Expansion of Digital and Robotic Surgery Programs

Apollo Hospitals has announced a large-scale expansion of its robotic-assisted surgery and digital healthcare ecosystem across multiple Indian cities. The initiative focuses on oncology, cardiology, neurology, and gastrointestinal surgery programs.

The hospital group plans to strengthen its AI-enabled clinical decision support systems and remote patient monitoring capabilities to improve treatment precision and patient management efficiency.

Executives stated that demand for minimally invasive and robot-assisted surgeries has increased sharply over the last year, particularly among international patients visiting India for advanced healthcare treatments.

The expansion also includes investments in smart ICUs, centralized command centers, and integrated electronic medical record systems to streamline hospital operations and clinical workflows.

Industry experts believe the move will further strengthen Apollo Hospitals' leadership position in India's rapidly evolving private healthcare market.

Fortis Healthcare Expands Advanced Cancer Care Infrastructure

Fortis Healthcare has unveiled plans to enhance its oncology and precision cancer care infrastructure across Delhi-NCR, Mumbai, and Bengaluru. The hospital network is focusing on advanced radiation therapy, molecular diagnostics, and targeted therapy programs.

The expansion includes installation of next-generation imaging systems, AI-driven pathology workflows, and enhanced genomic testing capabilities aimed at improving early cancer detection and treatment planning.

Healthcare experts have noted rising demand for integrated cancer care facilities as India continues witnessing increasing oncology patient volumes and growing awareness around preventive screenings.

The hospital group is also strengthening international patient services, tele-oncology consultations, and multidisciplinary treatment programs to support medical tourism growth.

Industry analysts expect oncology and transplant services to remain key revenue growth segments for India's leading hospital chains over the next several years.

Manipal Hospitals Accelerates Tier-2 City Expansion Strategy

Manipal Hospitals is rapidly expanding its healthcare footprint across Tier-2 and emerging metropolitan cities in India as part of its long-term growth strategy.

The hospital network is investing heavily in multi-specialty facilities, emergency care units, organ transplant programs, and high-end diagnostic laboratories to meet rising healthcare demand beyond major metropolitan regions.

Executives highlighted that improving health insurance penetration and rising patient expectations are driving demand for premium healthcare infrastructure in regional markets.

> The expansion strategy also includes digital healthcare integration, telemedicine services, and centralized laboratory systems to improve healthcare accessibility and clinical coordination.

Healthcare market observers believe Tier-2 city expansion will become one of the biggest growth drivers for India's hospital industry over the next decade.

Max Super Speciality Hospital Strengthens International Patient and Medical Tourism Services

Max Super Speciality Hospital has expanded its global patient outreach initiatives targeting patients from Africa, the Middle East, and Southeast Asia.

The hospital group is enhancing concierge healthcare services, multilingual patient support, digital consultations, and integrated treatment coordination systems to improve international patient experiences.

India's growing reputation for cost-effective advanced surgeries and specialized medical expertise continues attracting increasing numbers of global patients seeking oncology, cardiology, transplant, and orthopedic treatments.

> Healthcare economists noted that recent government initiatives supporting medical tourism infrastructure could further accelerate growth across the private healthcare sector.

Industry experts predict medical tourism revenues in India could witness significant expansion as hospital groups continue investing in international accreditation, advanced surgical technologies, and personalized patient care models.

Narayana Health Expands Affordable Cardiac Care Programs

Narayana Health has announced the expansion of its affordable cardiac and critical care programs aimed at improving access to advanced heart treatments across underserved regions.

The initiative includes development of specialized cardiac units, tele-cardiology services, and outreach programs focused on early cardiovascular disease detection and preventive healthcare awareness.

The hospital network is also integrating AI-enabled imaging systems and advanced minimally invasive cardiac procedures to improve treatment efficiency and reduce recovery times.

Healthcare professionals believe cardiovascular diseases remain one of India's largest healthcare challenges, driving increased demand for scalable and affordable specialty care infrastructure.

Industry observers say affordable specialty healthcare models could play a crucial role in bridging India's urban-rural healthcare accessibility gap over the coming years.

Aster Medcity Invests in Next-Generation Smart Hospital Technologies

Aster Medcity has announced new investments in smart hospital technologies, connected ICUs, and AI-powered patient monitoring systems as part of its healthcare modernization strategy.

The initiative focuses on predictive patient monitoring, digital nursing support systems, automated medication management, and real-time clinical analytics to improve hospital efficiency and patient safety. Healthcare technology adoption is accelerating rapidly across India as hospitals seek to optimize clinical workflows and improve operational scalability amid rising patient volumes.

The hospital group is also strengthening its transplant medicine, neuroscience, and advanced critical care departments to support growing domestic and international patient demand.

Industry analysts believe smart hospital transformation projects will become a major investment priority across India's healthcare ecosystem during the next few years.

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Who We Are

An AS 9001:2000 certified manufacturer specializing in critical care devices, AKAS stands at the forefront of world-class infusion systems and syringe pumps for hospitals and healthcare institutions.

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Today, with state-of-the-art manufacturing facilities in Tiruchirapalli and Chennai, and a presence in 15+ countries, AKAS continues to expand its global footprint.

What truly sets AKAS apart is its multidisciplinary team—a powerful collaboration of engineers, R&D specialists, and medical professionals—driving innovation that meets the highest standards of performance, safety, and reliability.

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Siemens Healthineers Atellica Testosterone Assay Receives CDC Certification

The certification verifies that the automated immunoassay provides results equivalent to the gold standard method for measuring total testosterone.

Siemens Healthineers announced its Atellica IM Testosterone II (TSTII) assay achieved certification through the Centers for Disease Control and Prevention (CDC) Hormone Standardization Program for Total Testosterone (HoSt-TT).

The certification confirms that the Atellica IM TSTII immunoassay results are equivalent to high performance liquid chromatography coupled with tandem mass spectrometry, which is the gold standard analytical approach. The assay, available on the Atellica IM and Atellica CI Analyzers, is the only fully automated immunoassay to maintain this certification continuously since 2019, according to the company.

SIEMENS Healthineers

"For women and children, testosterone levels are naturally low, which makes accurate measurement challenging," says Ross Molinaro, PhD, head of medical value and evidence for diagnostics at Siemens Healthineers, in a release. "The Atellica IM TSTII Testosterone assay is currently the only fully automated immunoassay with sustained CDC HoSt-TT certification, offering a suitable and widely used routine method that is alternative to an otherwise specialty testing method, enabling clinicians to confidently support more patients."

Testosterone is a steroid hormone that plays a role in sexual development, reproductive function, and bone metabolism. Accurate measurement is clinically significant because abnormal levels are associated with various endocrine, metabolic, reproductive, and oncologic conditions.

"The CDC's Clinical Hormone Standardization Programs standardize the total testosterone assay so that results are accurate, comparable, and clinically meaningful wherever they are performed," says Scott D Isaacs, MD, adjunct professor for the department of medicine at Emory University School of Medicine, in a release. "By calibrating assays to a common reference method and enforcing stringent performance criteria, CDC HoSt-TT reduces inter-laboratory variability."

The HoSt-TT program ensures traceability and supports compliance with guidelines from the Endocrine Society and the American Urological Association. An evaluation of the assay's performance was recently published in *The Journal of Clinical Endocrinology & Metabolism*.

Synergen Health Launches New Revenue Cycle Management Solution for Laboratories

The Ignite platform uses artificial intelligence and expert teams to manage billing, claims, and reimbursements for diagnostic providers.

Synergen Health has launched Ignite, an end-to-end diagnostic revenue cycle solution designed to improve financial performance for laboratories and diagnostic providers.

According to the company, laboratories often face challenges in revenue cycle management (RCM) due to reactive approaches, poor data quality, and inefficient processes that lead to denied claims and delayed reimbursements.

The new solution aims to address these issues through a combination of artificial intelligence (AI), domain expertise, and standardized operational processes.

"Laboratories are at a tremendous disadvantage in today's complex revenue cycle environment, and fragmented point solutions have done little to address the full scope of the problem," says Duminda Gunawardena, co-founder and managing partner at Synergen Health, in a release. "At a time when laboratories are being squeezed by rising costs and shrinking reimbursements, Ignite provides a more integrated way to improve performance and drive stronger outcomes."

The solution includes four primary capabilities intended to drive financial performance. The AI-driven technology is built specifically for laboratories to enable cleaner data capture, automation, and real-time decision-making. This foundation is designed to improve clean claim rates and reduce avoidable denials, according to the press release.

Additionally, the platform utilizes dedicated RCM teams with laboratory expertise to manage complex billing scenarios and payer interactions. Standardized processes for coding, billing, and denial management are used to increase throughput and consistency. Synergen also manages day-to-day operations, including prior authorizations, payer follow-up, appeals, and posting.

"We did not want to offer just another piecemeal RCM solution with limited scale and applicability," says Sunil Konda, chief product officer and executive vice president at Synergen Health, in a release. "We worked closely with clients to understand where performance breaks down across the laboratory revenue cycle.

Ignite combines AI-driven technology with deep domain expertise, proven processes, and high-touch service to deliver consistent execution and measurable financial outcomes at scale."

The platform integrates with existing client systems and analyzes information from external sources to provide an overview of RCM performance. According to the company, the solution operates under security standards, including SOC 2 and HITRUST CSF Type 2 certification. These "rigorous" security controls are intended to reduce the compliance burden and risk for clients, says the release.

Invivoscribe Launches Automated System Integrating Nucleic Acid Extraction and Quantification

The system is designed to standardize pre-analytical workflows and reduce inconsistency in molecular testing.

Invivoscribe announced the launch of the PrepQuant System, a sample preparation platform that integrates nucleic acid extraction, concentration, and quantification into a single automated instrument.

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Developed in collaboration with Hitachi High-Tech Corporation, the system is intended to standardize sample preparation and simplify pre-analytical workflows to reduce laboratory costs and eliminate a primary source of inconsistency in molecular testing. The platform combines Invivoscribe's experience in molecular assays and clinical testing services with Hitachi High-Tech's manufacturing capabilities.

The platform is assay agnostic and generates genomic DNA and cell-free DNA yields for next-generation sequencing, quantitative polymerase chain reaction, and digital PCR assays. By consolidating multiple steps into one platform, the system is designed to reduce operating costs, sample variability, and lab bench space.

"The PrepQuant System represents a significant advancement in our commitment to standardize the entire testing process, starting with the pre-analytical workflow," says Jeff Miller, CEO and chief scientific officer of Invivoscribe, in a release. "By integrating extraction, concentration, and quantification in one platform, we reduce variability to help ensure generation of consistent, high-quality test results. This is particularly important in the era of precision medicine, where reliability of MRD and liquid biopsy results depend markedly on the quality and consistency of the starting material."

The system was developed based on insights from LabPMM, the company's global network of testing laboratories, which identified limitations in current automated instruments.

"Our teams recognized the limitations of currently available automated instruments, particularly the labor-intensive nature and increased risk of errors associated with running three separate protocols across multiple instruments," says Jordan Thornes, vice president of global clinical laboratory operations, in a release.

"This all-in-one system was designed to reduce costs, while addressing those challenges and significantly improving operational efficiency."

The system is validated for use with blood, plasma, and bone marrow specimens, and development is ongoing for additional specimen types.

Invivoscribe displayed the platform at the American Association for Cancer Research Annual Meeting in San Diego from April 19 to 22.

The company is currently issuing quotes and expects the first commercial shipments in North America to begin in August 2026, with European availability scheduled for January 2027. New kit releases are planned by the end of 2026 to expand the system's menu and versatility.

Sapio Sciences Integrates Claude Cowork to Streamline Laboratory Data Management

The integration of the AI assistant with the Sapio Platform provides a single interface for searching, retrieving, and analyzing research and development data.

Sapio Sciences, an AI lab informatics company, announced that Claude Cowork, an agentic AI assistant from Anthropic, is now integrated with the Sapio Platform. The integration, facilitated through the Sapio Elain AI assistant, provides scientists and project leaders with a conversational interface to search, retrieve, and analyze data across a research and development (R&D) organization.

Working autonomously, Claude Cowork searches across various data sources to collate findings and return verified, structured outputs, including reports and dashboards. When connected to the Sapio Platform, the assistant can take actions within electronic laboratory notebook and laboratory information management system processes.

All actions performed by the assistant are executed with traceability and attributed to the requesting user.

"Sapio Elain is the AI co-scientist inside the Sapio Platform, making every interaction smarter for the scientist at the bench," says Kevin Cramer, CEO and founder, Sapio Sciences, in a release. "Claude acts as an extension of Elain's capabilities, opening up new reporting and analytical possibilities and enabling action on data across the entire organization. Together they give our customers AI that works at every level of the organization, all from a single prompt."

Addressing Research Bottlenecks

For scientists, the integration is designed to address bottlenecks in the research process. Questions that involve multiple processes or experiments typically require manual data exports and multiple searches. Claude Cowork is intended to answer these questions through a single prompt by retrieving and analyzing data across the full Sapio environment.

For project leaders and managers, the tool provides visibility across programs without requiring a direct login to the platform. Users can request real-time project status, identify which experiments are finished, and locate operational bottlenecks.

Applications in Lab Operations

The integration supports several use cases within the lab environment, including:

- Cross-experiment analysis: Identifying experiments related to specific molecules, comparing synthesis conditions, and surfacing optimal parameters for future work.
- Project data analysis: Pulling activity data for specific targets and running trend analysis across compound series.
- Program tracking: Providing real-time views of program status, completed experiments, and outstanding tasks.
- Compliance: Reporting on unsigned experiments that are past due, generating reagent inventory reports with reorder alerts, and producing key performance indicator dashboards.

"Scientists and project leaders spend too much time hunting for information that already exists across their organizations," says Rob Brown, vice president and head of the scientific office, Sapio Sciences, in a release. "Whether that data lives across experiments, across teams, or buried in email, Claude Cowork gives them a single conversation to find it, analyze it, and act on it. That is a meaningful shift in how R&D teams operate day to day."

The company also noted that Sapio Elain can be connected to other supported AI assistants, such as Microsoft Copilot and ChatGPT, allowing organizations to use their preferred tools.

New Automated Blood Culture System Receives CE Mark for Infection Diagnosis

The next-generation system is designed to accelerate pathogen detection and improve diagnostic accuracy for bloodstream infections.

Waters Corp announced that the BD BACTEC FXI Culture System has received CE marking under the European Union In Vitro Diagnostic Regulation.

The system is a next-generation, fully automated blood culture platform designed to improve the speed, consistency, and accuracy of bloodstream infection diagnostics in microbiology laboratories.

Clinical study data show the system delivers a mean time to detection approximately three hours faster than the previous-generation system, representing a 15% reduction in time. This supports earlier detection of pathogens and faster initiation of antimicrobial therapy for patients with suspected sepsis. Sepsis-related deaths accounted for 31.5% of total global deaths in 2021, and research indicates that each hour of delay in antibiotic administration increases mortality risks.

"In the context of sepsis, diagnostics are critical to supporting informed clinical decision-making and ultimately improving antimicrobial stewardship and patient care," says Rafael Cantón, PhD, head of clinical microbiology at University Hospital Ramón y Cajal – IRYCIS, Madrid, in a release. "Based on our experience during clisnical trials, the BD BACTEC FXI System reflects a mature and robust approach to blood culture diagnostics, with a clear focus on system reliability, ease of use, and laboratory workflow."

A key feature of the system is the automated gravimetric measurement of individual blood culture vial volumes.

This capability addresses pre-analytical variability, as studies suggest up to 85% of blood culture vials are inappropriately filled in clinical practice, which can negatively impact diagnostic accuracy. By objectively confirming blood volume in each vial, the system supports improved diagnostic consistency and adherence to collection practices.

Designed for high-throughput laboratories, the platform includes fully automated workflows for vial loading, unloading, incubation, and detection alerts. It offers an automated loading capacity of up to 60 vials at a time, reducing manual intervention and increasing walkaway time for laboratory staff. The system also offers modules accommodating 480 and 960 vials to help laboratories of varying sizes manage high testing volumes.

"The BD BACTEC FXI Culture System represents a significant advancement in automated microbiology, combining speed, automation, and scalability to support laboratory modernization," says Jianqing Bennett, senior vice president of Waters Advanced Diagnostics at Waters Corp, in a release. "This system strengthens our position in clinical microbiology and expands our ability to address the growing global demand for faster, more reliable infectious disease testing."

The system is currently available in Europe and Japan. The company is pursuing additional regulatory clearances and approvals in other global markets. Waters Corp demonstrated the platform at ESCMID Global 2026 in Munich.

CRISPR-Cas 9

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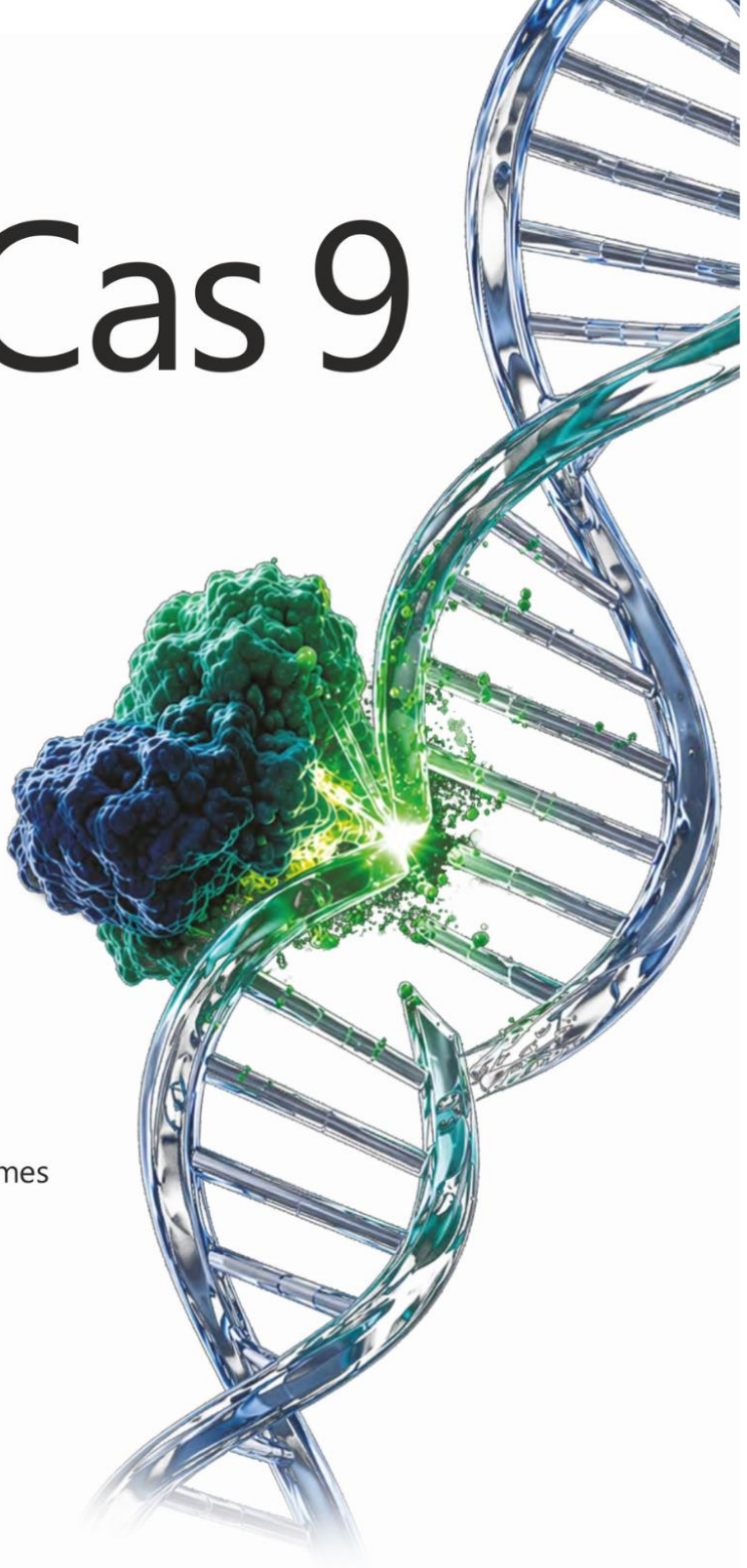

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Address:-C-1310/1311, New Bombay Market, Umarwada, Surat-395010
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