

Microbioz

Volume -12- Issue No. - 6 June 2026

India

www.microbiozhealth.com

Healthcare
Special
Edition

INNOVATING EVERY PATIENT JOURNEY
THE EVOLUTION OF **MODERN** HEALTHCARE



Inside

Engineering Better Health: The Technologies
Redefining Patient Care

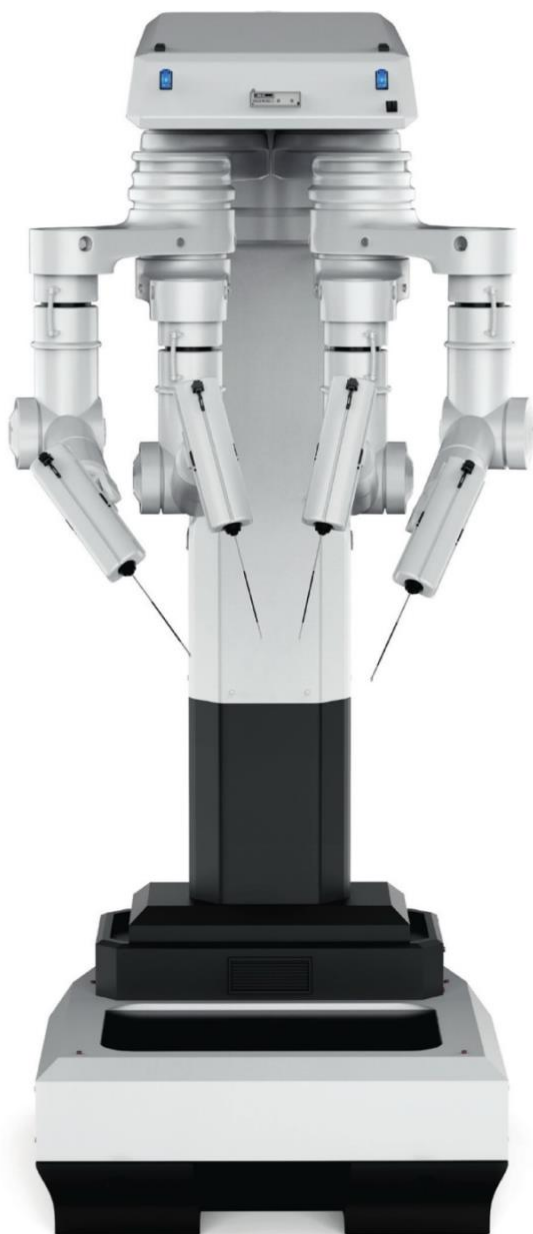
The Unsung Hero of Heart Surgery: Medical Balloons
in Cardioplegia Catheters

Future-Ready Critical Care With Predictive AI,
Advanced Imaging and Smart ICUs



RNI:UPENG/2017/3675

Price:100/-



Human connections

We know that quality, reliability, and trust are of paramount importance in medical technology. This is why our precision drive systems are not only used in insulin pumps, surgical robots, and prostheses, but also in implantable systems.
medical.maxongroup.com



Scan QR Code to
visit our website



ISO 13485:2016
ICMED 13485

www.jmitra.co.in

PRESERVING HUMAN LIFE



Proud to be a
GREAT PLACE TO WORK®
CERTIFIED™
For The 4th Consecutive Year.



J. Mitra & Co. Pvt. Ltd.

.....a vision to serve mankind™

- Rapid Test Kits
- Elisa Test Kits
- Blood Grouping Sera
- FIA Test Kits
- Chemiluminescence (CLIA) Test Kits
- Medical Analyzers & Instruments

E-mail: jmitra@jmitra.co.in

Tel.: +91-11-471-30-300



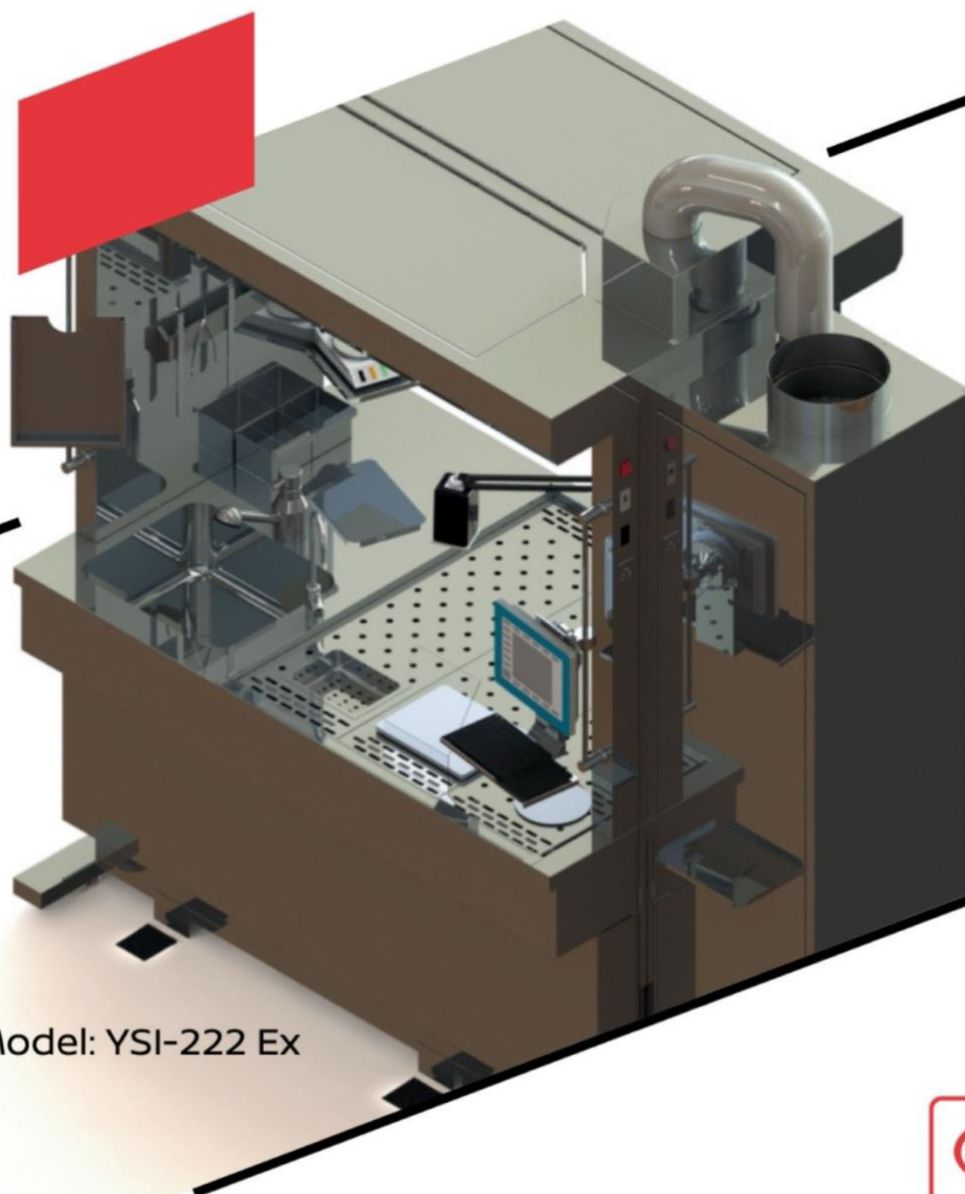
NSIC
CERTIFIED CO.



FACTUAL LEGACY SINCE 1964

YORCO Grossing Station

EVOLVE YOUR LAB WITH ADVANCE TECHNOLOGY



Model: YSI-222 Ex

- High performance airflow
- Negative pressure air curtain/air flap
- Unique top fume catchment slots
- Crucially designed
- Ease of Use
- Integral Ventilation
- UV Disinfection
- Simplified controls
- Under Table tub wash



**YORK
SCIENTIFIC INDUSTRIES
PRIVATE LIMITED**

Laboratory Equipment & Instruments

+91-1204741800

www.yorco.co.in

sales@yorco.co.in

UNIMEDITREK KSHRIOM SERIES VTP 300

Finer Specimen Processing on Each Run!

Kshriom Series Fully Automated Vacuum
Tissue Processor



Generation-1



Generation-2

Generation-3

UPCOMING

UNIMEDITREK PRIVATE LIMITED

14 Chitra vihar, New Delhi-110092, India

Mob: +91-9810533445 | Email: sales@unimeditrek.com | Website: www.unilabequipments.com

CONTENTS

TABLE OF



Cover Story

Innovating Every Patient Journey: The Evolution of Modern Healthcare

10

Featured Article

Engineering Better Health: The Technologies Redefining Patient Care

13

Business News

Apollo Hospitals Bets Big on AI to Reduce Clinical Workload and Improve Patient Care

37

Product Launches

Sysmex America Launches New Hematology Solution for Clinical Labs

41



Ami Polymer
Enabling Healthcare



Medical Balloons in Cardioplegia Catheters

The Unsung Hero of Heart Surgery

About Medical Ballons

A soft, compliant medical balloon integrated into cardioplegia catheters, designed to temporarily occlude the coronary sinus and enable controlled delivery of cardioplegia solution during open-heart surgery.

Applications

- Open-heart surgeries (cardiac arrest procedures)
- Retrograde cardioplegia delivery via coronary sinus
- Minimally invasive cardiac surgeries (MICS)
- Complex coronary artery disease cases requiring dual perfusion support

Key Features

- Soft, biocompatible silicone / polyurethane construction
- Compliant design for safe adaptation to coronary sinus anatomy
- Effective sealing for controlled retrograde cardioplegia delivery
- Integrated pressure monitoring for safety and precision
- Anti-migration / ribbed design options for stability
- Latex-free options for patient safety

Why Ami Polymer

- Expertise in medical-grade silicone and polyurethane components
- Precision Molding and extrusion for critical cardiac applications
- Strong capability in custom balloon development
- Consistent quality aligned with global medical standards
- Support for OEM development and scalable manufacturing



SCAN HERE
To see our best product!

Our Staff.

Editor in Chief: Jeetendra Kumar Shukla

Head Business Development	Shubh Shrivastava
Technical Advisor	S.T.Ram
Digital Designing	Jeetendra Kumar
Interview & Meetings	Nimi Vashistha
International Sales	Devashish
Chief International Representative	Rebecca Scolastica Bello
Nigeria Outreach	Sivashankari Ramamoorthi
Malaysia Outreach & Author	Rodel Estadillo Alo
Philippines Outreach	Dr.Moslim
Iraq outreach	Taylor Francis

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

Registered with Registrar of News
Paper for India with RNI No:
UPENG/2017/73675

Owned, Printed, Published and Edited by Jitendra Kumar Shukla, printed at Ganapathi Overseas 1/63
Bahar-e-Sahara State Janki Puram Lucknow-226021, and Published from 631/63, Surendra Nagar,
Mulayam Nagar, Chinhat - Lucknow-226016, Editor, Jitendra Kumar Shukla

Disclaimer:

Neither the **Microbioz India** nor its publishers nor anyone else involved in creating, producing or delivering the Microbioz India (in printed, web or CD format) or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the Microbioz India Magazine (in printed, web or CD format), nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of the Microbioz India magazine.

Editor's Word

Dear Readers,

Welcome to the latest issue of Microbioz India-Healthcare and Diagnostic special edition. It's a true pleasure to have you with us once again, and we hope you find this edition as captivating and inspiring as ever.

In this issue, we're thrilled to delve into the intriguing world of **"Innovating Every Patient Journey: The Evolution of Modern Healthcare"** our cover story of the month. Our team has worked tirelessly to curate content that we believe will both entertain and enlighten you, from thought-provoking features to stunning visuals that capture the essence of our chosen theme.

We are excited to showcase some incredible contributors, whose expertise and creativity have graced the pages of this magazine. Their passion for digital healthcare and innovation shines through in every article, photograph, and piece of art.

Be sure to check out our special product showcase section, where you'll find latest product launches and stories. It's a testament to our commitment to providing you, our readers, with diverse and engaging content.

As always, Microbioz India is a reflection of our dedication to delivering top-quality journalism, exquisite design, and stories that resonate with you. We're immensely grateful for your continued support and readership, which drives us to keep raising the bar.

We encourage you to connect with us through our social media channels, where you can share your thoughts, feedback, and suggestions. Your voices are what inspire and guide us in our mission to bring you a magazine that truly speaks to your interests and passions.

Thank you for choosing to spend your time with us. We hope you thoroughly enjoy this issue and that it leaves you inspired, informed, and entertained. Enjoy the read!

Kumar Jeetendra

Microbioz India.

Magazine Publishing Company



**A-Z of Your
Hospital Requirements**



Medicall

INDIA'S LARGEST & **NO.1** HEALTHCARE EVENT
& HOSPITAL NEEDS EXHIBITION

47th Edition | 2026 | JUL

FRI

24

SAT

25

SUN

26

CHENNAI

48th Edition | 2026 | OCT

FRI

2

SAT

3

SUN

4

NEW DELHI

49th Edition | 2026 | DEC

TUE

8

WED

9

THU

10

MUMBAI

INNOVATING EVERY PATIENT JOURNEY

THE EVOLUTION OF **MODERN** HEALTHCARE



Healthcare now includes an ecosystem that engages the patients and is more than just hospitals and doctors. Patient journeys through the healthcare ecosystem are getting more innovative at every level from preventative care and diagnostics to treatment, rehabilitation and wellness.

Healthcare is undergoing a paradigm shift from simply diagnosing and treating to designing personalized, efficient and patient-centric care pathways.

Adaptation of healthcare systems to the needs and expectations of patients in a rapidly changing global environment is ensuring that the future is innovative, healthy and more accessible.

A Change Toward Patient-Focused Care

The outdated model of healthcare is being transformed to incorporate patient-focused care, where the patient is involved in the care of their own health.

The main elements of patient-focused care are:

1. Patient-specific care pathways
2. Active patients
3. Quicker care
4. Transactional communication enhanced by technology
5. Positive patient outcomes

Today's healthcare systems prioritize patient care over the system's constraints.

Digital Health: Care with No Walls

Digital technology combined with a better design has made care more efficient and more accessible to patients.

Transforming Clinical Decision-Making with AI

AI is a new highlight of healthcare technology. AI systems accelerate rapid, precise clinical decision-making through the analysis of countless amounts of data.

AI can be employed for:

1. Forecasting the development of a disease and the potential for a patient to develop a disease
2. Analyzing clinical images
3. Improving clinical workflows
4. Assisting in drug development
5. Optimizing personalized medicine

AI is helping clinicians and is easing and eliminating errors in diagnosis.

The Future of Healthcare is Smart Hospitals

The evolution of healthcare is the development of smart hospitals, which are fully integrated and interconnected technologically advanced systems that, enhance productivity and safety within the hospital and for the patient.

Some attributes of the smart hospital are:

1. IoT smart systems
2. Automated patient management
3. Smart ICU's
4. Digital monitoring dashboards
5. Touchless healthcare

Smart hospitals enhance the experience of patients within the hospital through the integrated interconnected systems.

Advanced Healthcare: Earlier Detection for Better Outcomes

Detecting a disease sooner is the best means of improving a patient's outcome and upholding the aims of healthcare. The evolution of healthcare diagnostics is a means to the faster detection of a disease.

Some of the innovations in diagnostics are:

1. Molecular diagnostics
2. Portable diagnostic systems
3. AI diagnostics imaging
4. Genomic diagnostics
5. Digital pathology

These diagnostic innovations will enable clinicians to intervene sooner with targeted treatment.

Precision Medicine: Individualized Healthcare

The most recent evolution of medicine is the shift from the traditional one-size-fits-all medicine towards Precision Medicine which aims to individualize treatment to the specific biology of the patient.

Cover Story

Positive effects include the following:

1. More effective treatments
2. Revolutionized precision medicine
3. Less side effects
4. Better management of disease
5. Better satisfaction of patients
6. Better preventive medicine

Healthcare is changing in ways that precision medicine is leading.

Automation of Health Services

Automation is changing clinical and operational health services.

Automation is used in:

1. Surgery
2. Automated laboratories
3. Automated delivery of medicine
4. Automated logistic services in the hospital
5. Automated rehabilitation services

Automation of health services leads to better accuracy, efficiency, and safety of patients.

Active Healthcare

Data is the driving force of many of the modern health care systems.

Healthcare data services help mainly by:

1. Proactive Management of diseases
2. Management of the health of populations
3. Better planning of health care services

4. Better safety of patients
5. Better health care services

Analytics of data encourages health care systems to take a proactive approach to health care.

An Innovated And Resilient Health Care System. Health services now foster innovation and sustainability.

Priorities of health services are:

1. Hospitals with infrastructure to sustain energy
2. Green health services
3. Health services that use less paper
4. Health services with sustainable health care equipment
5. Health services with sustainable and ecofriendly purchasing

A resilient health care system has long term benefits for patients and the community.

Final Thoughts

Healthcare is focused on creating connected and personalized health services.

Technology is changing every aspect of a patients care.

Health services that focus on the patient and the use of technology will be the leaders in health care.

Transforming every patient experience is not a goal—it is the modern healthcare standard.

The future of healthcare is smart, fast, and accessible while being fully dedicated to the people it serves.



Beyond Maintenance

Service That Supports Care

LEARN MORE





Engineering Better Health: The Technologies Redefining Patient Care

The convergence of engineering and medical science is beginning to change the landscape of the patient experience. Engineering is bringing newly integrated, innovative technologies at every step along the care continuum from early intervention and diagnosis to treatment, rehabilitation, and ongoing health maintenance. These technologies are beginning to change the entire care delivery system—not just what care is available at the hospital or clinic.

Healthcare delivery is becoming more connected and integrated through artificial intelligence, connected medical equipment, and robotics and digital diagnostic tools. Care delivery is more adaptive, flexible, and responsive thanks to data-informed solutions. Advancing customer expectations and rising demand in the delivery of care is becoming more and more aligned and integrated. Technology is becoming the solution.

Building tomorrow's healthcare systems is the process of developing and designing the systems today. The result is better health for everyone.

Smart Healthcare: Creating an Intelligent, Integrated Care System

Modern integrated healthcare systems connect, and collaborate through data, device, and healthcare professional networks.

Smart Healthcare technologies consist of:

1. IoT-enabled healthcare devices
2. Real-time patient monitoring
3. Digital health systems
4. Electronic Health Records (EHR)
5. Cloud-based health systems

Artificial Intelligence: The New Standard of Care

Featured Article

AI's ability to analyze and process large amounts of data has begun to present new and innovative solutions.

AI has begun to:

1. Predict and identify disease early
2. Analyze medical imaging
3. Provide personalized treatment options
4. Optimize clinical workflow
5. Enhance monitoring of patients

AI's ability to process and analyze large amounts of healthcare data is beginning to fill the gaps of care and promote more proactive and precise care.

DATADOCS - ENHANCED DIAGNOSTIC CAPABILITIES - EARLIER DIAGNOSIS OF ILLNESSES

The efficacy of a treatment plan overwhelmingly improves as an illness is diagnosed and treated in its early stage. Timely and accurate diagnostic testing allows clinicians to intervene as illness develops.

Innovations in the following have expedited the diagnostic process:

1. Molecular diagnostics
2. Digital pathology
3. Point-of-Care testing
4. Artificial intelligence-imaging systems
5. Genomic diagnostics

The innovations above have allowed healthcare professionals to detect illnesses sooner and, as a result, improve the overall prognosis and success of the treatment plan.

DATADOCS - INTELLIGENT MEDICAL DEVICES - BRING THE CLINIC TO THE PATIENT

The design and function of medical devices is revolutionizing the delivery of healthcare.

Some of the devices include:

1. Wearable health monitors
2. Smart infusion pumps
3. Connected ventilators
4. Portable ultrasound
5. Remote patient monitoring systems

These medical devices are designed to facilitate continuous care and reduce the necessity of an in-patient hospital stay.

DATADOCS - MEDICAL ROBOTICS - GREATER ACCURACY IN MEDICINE

The introduction of robotics and automation is changing clinical practice and the operation of a hospital.

Some of the systems include:

1. Robot-assisted surgery
2. Automated Labs
3. Rehabilitation robotics
4. Medication dispensing systems
5. Automated hospital logistics

The integration of robotic systems is making tasks in healthcare easier and increasing focus on care.

DATADOCS - INDIVIDUALIZED MEDICINE - ADAPTED THERAPY

The future focus of healthcare is on individualized therapy as opposed to a generalized approach.

Precision medicine integrates:

1. Genomics
2. Biomarker studies
3. Patient data
4. Predictive analytics

Featured Article

The benefits include:

1. Targeted therapy
2. Reduced side effects
3. Improved therapy success
4. Better prevention

Personalized medicine is at the forefront of healthcare innovation.

Telehealth and Remote Care: Increasing Availability

Digital healthcare systems make high-quality healthcare easier to access by removing barriers that are a result of distance.

Telehealth offers:

1. A virtual visit
2. Remote patient monitoring
3. An online pharmacy
4. Support for in-home management of chronic illness
5. Streamlined follow-up care

Especially for vulnerable populations, the use of these systems improves healthcare access.

Data-Driven Healthcare: Better Decisions with Better Data

One of the most transformative resources for the healthcare sector has been data. Care delivery has been improved and efficiency of operations has been enhanced with the use of advanced analytics.

Data-centric healthcare facilitates:

1. Proactive management of chronic disease
2. Community health assessment
3. Effective use of healthcare resources
4. Unique care strategies for individual patients
5. Patient safety and risk reduction

The healthcare sector is experiencing a transformation with the recognition of the value of data and the ability to use it to derive meaning and take action.

Sustainable Healthcare: Responsible Innovation

The transformation of the healthcare sector and adoption of new systems and practices have emphasized the need to protect the environment.

The most visible aspects of sustainability in healthcare are:

1. Infrastructure that is energy efficient
2. Healthcare that is less documented on paper
3. A reduction in healthcare waste
4. Care that is contracted and provided in a responsible manner
5. Care and treatment that is less harmful to the environment

We have a responsibility to future

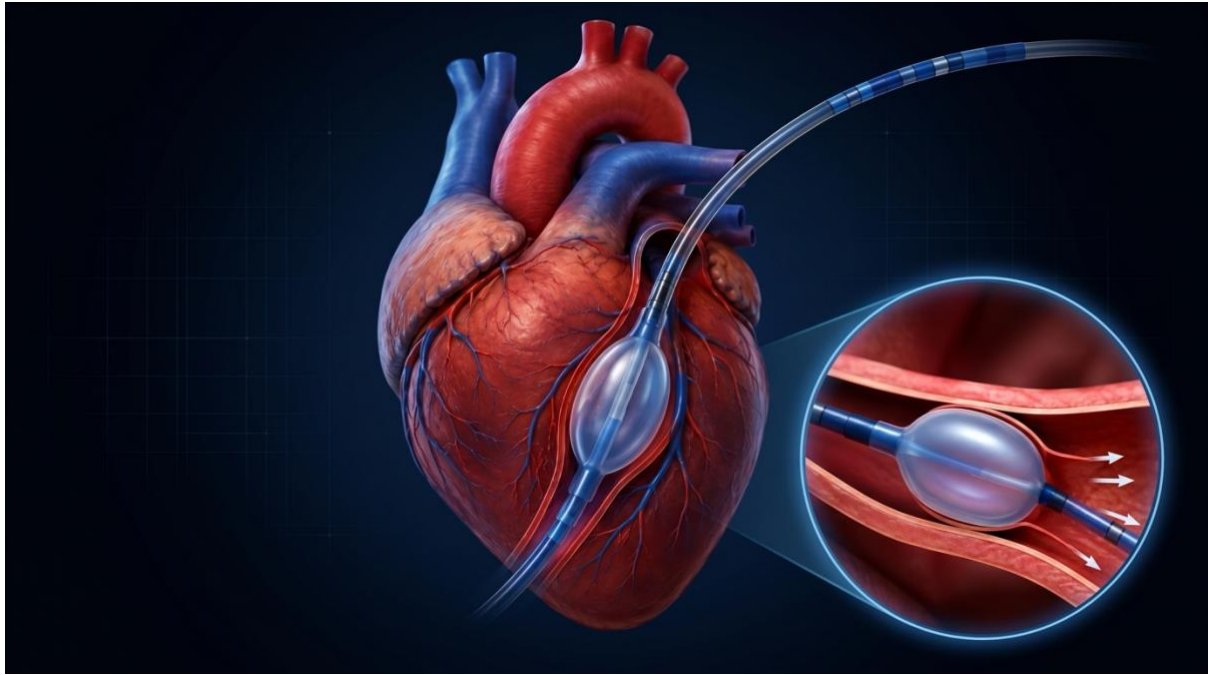
generations to build a healthcare system that is sustainable so that it can support them as it has supported us.

The Future of Healthcare

The combination of engineering, digital technology, and advanced thinking has enabled the transformation of the healthcare sector. Technological advances focus on the same goal. They center on the patient and seek to make care more efficient, easier to access, and more tailored.

Every aspect of the transformation of global healthcare (AI, surgery with the use of robots, connected devices, and healthcare that is exact and individualized) is revolutionary.

The systems that have placed the patient at the center of every aspect of care, that have embraced collaboration, and that have focused on innovation are the systems that will transform the healthcare of the future.



The Unsung Hero of Heart Surgery: Medical Balloons in Cardioplegia Catheters

In the realm of cardiac surgery, technology can be small yet impactful. Cardioplegia catheters, which incorporate small medical balloons, help to shield the heart during surgery. This is done by facilitating controlled distribution of the cardioplegia solution. This article assesses the ways balancing function, size, and technology in the design of cardioplegia catheters impacts surgical safety and patient outcomes. It also looks to the future to see what more these sophisticated devices might accomplish.

Small But Mighty

Surgeons are sometimes required to stop a patient's heart during open heart surgery in order to carry out repairs to the heart. During this time, the heart must be protected. This is accomplished using a cardioplegia solution. This solution stops the heart temporarily and prevents damage to the heart muscle. Cardioplegia catheters are the special tubes used to deliver this solution. A balloon placed at the end of the tube is a critical component of the catheter.

The small size of the catheter balloon does not limit the balloon's capability to play a significant role during heart surgery.

The balloon does much more than act as a stopper. It is critical to the proper and efficient delivery of the cardioplegia solution to the needed parts of the heart.

Two Methods of Delivering the Cardioplegia Solution

Antegrade Cardioplegia

In the antegrade method, solution delivery is along the normal path of blood flow, beginning with the aorta. The delivery path follows the coronary arteries and ends at the heart muscle.

This method is adequate for the majority of standard heart surgeries.

Featured Article

Retrograde Cardioplegia

Antegrade delivery of the cardioplegia solution is not effective in all patients, particularly those whose coronary arteries are obstructed.

The retrograde method is used in this instance. The solution is introduced via the coronary sinus, a large vein on the posterior aspect of the heart. The solution then travels the reverse path through the heart's venous system in order to reach the heart muscle.

This technique involves placing a catheter in the coronary sinus and inflating a balloon to form a seal. In these instances, the function of the balloon is critical.

Some information about the coronary sinus:

1. The coronary sinus is the main vessel collecting blood from the heart muscle and contains about 60% to 70% of the total venous blood of the heart.
2. Appendix sizing varies causing design difficulties.
3. There are portions of the right ventricle that are not drained by the coronary sinus. Therefore, retrograde cardioplegia alone is insufficient to provide complete protection to the right side of the heart.

Description of the function of the balloon:

In essence, the function of the balloon is to obstruct the coronary sinus for a limited time.

In the absence of the balloon:

1. The cardioplegia solution would escape into the right atrium instead of going into the heart muscle.
2. Pressure would not be sufficient.

3. The heart muscle would be unprotected.

A balloon in an inflated state will oppose the walls of the coronary sinus. Sufficient pressure is then achieved to allow the cardioplegia solution to diffuse into the heart muscle.

Modern systems include pressure monitoring to ensure the balloon is properly positioned and not overinflated.

Coronary sinus pressure is maintained between 20 and 50 mmHg, as higher pressures pose a risk of a serious complication, a coronary sinus rupture.

The balloon design and the quality of the material help reduce this risk.

Silicone Balloons

Since flexibility and biocompatibility are considered for materials that are used in the cardiovascular system, silicone suits these specifications. Because silicone is soft and compliant, silicone balloons gently expand to the shape of the coronary sinus.

Polyurethane

The newer devices are using more polyurethane because of its:

1. Latex-Free
2. Strong and Flexible
3. More Safe for Patients with Latex Allergy
4. Tailored for Modern Manufacturing

What is Compliant Ballooning?

In comparison with the rigid and forceful angioplasty balloons, the cardioplegia balloons are compliant and expand gently to avoid damage to the tissue.

Featured Article

1. Ballooning Design Compliances
2. Ribbed Ballooning Surface

Balloons with small ribs on surface help:

1. Stop unnecessary movement of the catheter in surgery
2. Increase the grip of the balloon in the coronary sinus
3. Lower the chances of the balloon dislodging

The ribs are positioned in a way to avoid injuring the tissue.

Self-Inflating Balloons

More advanced catheters are designed in a way that the balloon is inflated automatically using the cardioplegia solution, simplifying the process and eliminating the requirement for separate inflation systems.

Pressure Monitoring Tubes

The more modern catheters have the special pressure sensing tubes that:

1. Inflate the balloon to a specified amount of pressure
2. Indicate the balloon is in the wrong position
3. Help avoid the balloon from being over inflated

These tubes provide a higher level of safety for the patient.

Existing Problems

Right Ventricular Protection

Retrograde cardioplegia is still not a complete protection of the right ventricle because of the veins that bypass the coronary sinus.

Because of that, the surgeons sometimes use a combination of both antegrade and retrograde delivery.

The Movement of Catheters

A catheter is placed in the heart. During surgical procedures the heart is moved, which can cause the catheter to shift.

If the catheter shifts:

1. There may be a sudden drop in pressure
2. The catheter may be expelled
3. It may cause injury if the catheter moves even deeper

To prevent these issues, pressure is monitored continuously.

Different Overall Anatomy of the Patient

The patient's anatomy can cause issues with varying sizes of body cavities. The coronary sinus is a good example of this.

1. A balloon that is too small may not press against the walls of the coronary sinus.
2. A balloon that is too large may rupture the coronary sinus.
3. To prevent this, different sizes of balloon catheters are available.

Rupture of the Coronary Sinus

This is a very serious complication of all the previously mentioned concerns.

This can happen if:

1. Pressure is too high in the system
2. The balloon is overly inflated , or
3. The catheter is placed too deeply

This is a significant complication that requires a lot of attention.

Minimally Invasive Cardiac Surgery

New, state-of-the-art techniques have allowed surgeons to perform heart surgeries with smaller incisions.

Featured Article

However, smaller incisions make it more difficult for a surgeon to visualize and manually guide the catheter.

The catheter may be inserted through other veins such as:

- a. The right internal jugular
- b. The femoral vein

To assist in the placement of the catheter, surgeons may use, echocardiography and fluoroscopy.

In surgeries using this type of technique the balloon catheter is the centerpiece because:

1. It has to travel a longer path and still presses against the sinus walls without visual confirmation
2. It has to remain stable throughout the procedure.

Retrograde cardioplegia on its own is successful in approximately 74% of these procedures, while the remainder may require some form of Antegrade delivery.

What Hospitals Should Evaluate When Purchasing These Devices

Hospitals need to analyze various aspects of balloon design when considering purchasing cardioplegia catheter systems.

Helpful questions may include:

1. What is the balloon material?
2. Is the balloon material latex-free?
3. What is the balloon's pressure limit?
4. How flexible and compliant is the design?
5. Is there an anti-migration feature?
6. What is the reliability of the embedded pressure monitor?
7. Is this design compatible with minimally invasive surgery?

Each of these can impact safety and performance.

Potential Advancements

Research is being done to create advanced balloon technologies that include:

1. Improved visibility to ultrasound
2. Advanced pressure monitoring systems
3. Adaptive materials that respond to pressure

Balloon technologies are a critical focus for cardiac surgery and continue to be an important area for advancement, even with slow progress.

Concluding Remarks

The most important medical devices are not always the largest and most complex.

During heart surgery, the self-inflating balloon design of the catheter that is placed in the coronary sinus is a critical device that can make the difference between the success and failure of heart protection while minimizing complications.

The balloon design in the catheter and the features that assist the function of the device are extremely important for the device to be able to:

1. Control pressure
2. Administer cardioplegia
3. Protect the cardiac muscle during the surgical procedure

Because of this, much more time and thought should be placed on the design of a balloon catheter system.



Author: Divya Joshi
Executive Domestic Marketing
divya.j@amipolymer.com



Future-Ready Critical Care With Predictive AI, Advanced Imaging and Smart ICUs

The future of critical care brings together an integrated system of advanced technologies to deliver preemptive, precise care.

This includes predictive artificial intelligence (AI), advanced imaging technologies, and the necessary smart infrastructures within our Intensive Care Units (ICUs).

Historically, care in ICU has been mainly reactive. This is because most monitoring systems do not pick up on physiological changes until after they have occurred. Because of the demands of increased patient complexity, the burden of chronic diseases and the need to achieve better outcomes, healthcare systems must transition away from reactive care models.

Predictive AI: Foresee Risk Conditions

The modern critical care centre is a smart, data-rich, and evolving environment, with the capacity to provide care that is both proactive and precise.

This means that critical care environments must have the capability to anticipate the deterioration of a patient before significant signs and symptoms of that deterioration become apparent.

One of the most critical components of this transformation is predictive AI.

AI can analyze massive volumes of time sensitive data, including not only vital signs and laboratory results, but also electronic health records (EHRs), medication histories, and even physiological waveforms.

Featured Article

Predictive AI has the capacity to identify clinical patterns that may go undetected by passive monitoring systems.

Advanced Imaging: Faster Clinical Decisions

New technologies for diagnostic imaging are impacting workflows used in critical care. The design of next-gen critical care centers is changing to include point-of-care ultrasonography (POCUS), portable CT scanners, AI-enabled imaging analysis, and advanced functional imaging within or very close to ICU's.

Bedside imaging streamlines the diagnostic process, cutting down transport risks for the severely ill, and makes therapeutic decisions easier to implement.

Imaging workflows are enhanced with the addition of AI, enabling automated image reconstruction and dictated findings, and improving the speed and reliability of clinicians' detections of intracranial haemorrhages, pulmonary embolisms, and cardiac dysfunction.

When combined with clinical and physiological datasets, imaging creates a multidimensional depiction of a patient's condition, allowing highly focused and personalized critical care.

Smart ICUs: Connected Care

The operational framework for this integrated technology is provided by Smart ICUs. Smart ICUs use interconnected medical equipment, interoperable electronic health records, various remote monitoring systems, and centralized data storage, to facilitate seamless information sharing to every member of a multidisciplinary team. Organizational support systems can offer recommendations on the next actions for clinicians, based on rapid synthesis of real-time data from bedside monitoring, lab imaging, and a variety of predictive services.

This fosters a high level of situational awareness in the clinical environment and helps to ensure that decisions are based on the best available data.

From Reactive Monitoring To Precision Care

This impacts clinicians significantly. The time to process diagnostics is greatly reduced and assessments can easily move from episodic to continuous.

Identifying deterioration earlier leads to several benefits. Interventions can be carried out with a decreased length of stay in the ICU for the patient, a decrease in the financial burden of healthcare, and with an improved survivability of the patient. Predictive and precision-based care models are also concerned with the best use of resources. This balance is becoming more important with the increasing demand for care that is more intensive and the shortages of staff able to provide that care.

As healthcare organizations build critical care centers that are ready for the future, the investments that they make need to include more than just the technologies. Interoperability, data governance, cybersecurity, clinician training, and the management of change all need to be included.

The future of critical care will be focused on more than just the treatment of critical illness. It will also be focused on the prediction and prevention of critical illness, and the individualization of care. This will change the way that intensive care units function.

They will cease to be environments for the monitoring of patients in a reactive manner. Instead, they will be able to function as intelligent care ecosystems that will provide the most needed care at the most needed time.

Featured Article

About Author:



Dr. Manivannan Selvaraj

MD, DnB

Founder and Managing Director
Kauvery Group of Hospitals

Dr. Manivannan Selvaraj is the Founder and Managing Director of Kauvery Group of Hospitals. Dr. Manivannan is a trained anaesthesiologist.

His vision of making great healthcare affordable became a reality in 1999, when he co-founded Kauvery Hospital along with Dr. S. Chandrakumar.

Kauvery Hospital's mission is to bridge the burgeoning gap in trust between patients and hospitals, and to restore the importance of empathetic healing.

Dr. Manivannan's firm belief in the adoption of best practices to eliminate wastage, rationalize treatment and optimize patient stay in the hospital helps in reducing the cost of treatment, thereby making great healthcare affordable.

This also helps in reducing the negative impact on tertiary healthcare due to complexities of various diseases and the lack of availability of high-end investigation tools.

Dr. Manivannan's focus on implementation of lean methodologies and 5S practices has helped Kauvery Hospital win several awards in 5S, Quality Circle initiatives (employee's ability to assess and resolve issues on their own).



Elevate Your Reading Experience

Subscribe to our magazine and delve into a world of insightful articles, captivating stories, and expert opinions. With each issue, you'll explore new perspectives, stay informed, and indulge in high-quality content curated just for you.

#microbiozindia



Nikhil Kamath Brings Together Pharma Veterans to Decode India's Evolving Healthcare Landscape

In the latest episode of WTF, entrepreneur and investor Nikhil Kamath sits down with two of India's most influential pharmaceutical leaders, Rajeev Juneja, Co-Founder and Managing Director of Mankind Pharma, and GV Prasad, Co-Chairman and CEO of Dr. Reddy's Laboratories, for a candid conversation on India's pharmaceutical growth story, the future of innovation-led healthcare, manufacturing competitiveness, and the opportunities shaping the sector's next chapter.

Together, Juneja and Prasad bring more than six decades of experience building businesses that have helped shape India's position as the pharmacy of the world. Through personal stories and industry insights, they discuss how medicines are discovered, manufactured and commercialized, why India remains a global leader in generic drugs, and what it will take for the country to emerge as a stronger innovation-driven pharmaceutical hub.

Reflecting on Mankind Pharma's journey, Rajeev Juneja shares how the company was built after its founding in 1995 with just Rs. 69,000 in capital and a strategy focused on markets often overlooked by larger players. While established pharmaceutical companies concentrated on metros and large hospitals, Mankind expanded its presence across smaller markets in Western Uttar Pradesh, Haryana and Punjab, prioritizing depth of distribution over breadth.



Nikhil Kamath in conversation with Rajeev Juneja, Co-Founder and Managing Director of Mankind Pharma, and GV Prasad, Co-Chairman and CEO of Dr. Reddy's Laboratories

The company differentiated itself by pricing products 40 to 60 percent below competitors, making medicines more accessible to consumers.

Hospital Watch

Today, Mankind Pharma is India's fourth-largest pharmaceutical company with revenues exceeding Rs. 40,000 crore.

GV Prasad reflects on joining Dr. Reddy's Laboratories in 1990, when the company's total group revenue was less than Rs. 100 crore, and helping build it into a nearly USD 3 billion global business spanning generics, biosimilars and proprietary drug discovery. He explains the fundamental differences between generics, biologics and innovative medicines, while highlighting both India's strengths and limitations within the global pharmaceutical value chain.

A key theme of the discussion is India's next growth frontier.

While India has established itself as the world's leading supplier of affordable generic medicines, Prasad notes that significantly greater value is created through innovation and the discovery of new therapies. The conversation explores emerging treatment areas such as GLP-1 drugs, the economics of drug development, and the investments required to build a globally competitive innovation ecosystem.

The episode also examines India's position relative to China. Juneja and Prasad discuss China's evolution from a low-cost manufacturing destination to a global force in pharmaceutical innovation, noting that 29 percent of all new cancer drugs are now originating from Chinese companies. The discussion highlights the importance of long-term capital, scientific talent, research infrastructure and institutional support in driving innovation-led growth.

Addressing the ongoing conversation around Active Pharmaceutical Ingredients (APIs), the two leaders offer perspectives on manufacturing resilience and supply chain competitiveness.

Prasad argues that India has not lost its ability to manufacture APIs but rather faced economic challenges that shifted production elsewhere, while Juneja discusses how Indian companies are increasingly partnering with and licensing molecules from global innovators to bring advanced therapies to patients more quickly.

Beyond industry trends, the episode provides valuable insights for young professionals considering careers in pharmaceuticals. Drawing on their own experiences — from Juneja's early years as a medical representative to Prasad's journey of helping build a global pharmaceutical enterprise — both leaders emphasize the breadth of opportunities available across science, research, manufacturing, sales, entrepreneurship and healthcare innovation.

Speaking on the episode, **Rajeev**

Juneja, said, *"What you hate becomes your biggest lesson. Going to that pharmacy, sweeping, buying from the wholesale market, I hated it. But that is where I learned how the market really works."*

GV Prasad added, *"India is the generic pharmacy of the world. That's a good foundation. But the next frontier is finding new drugs, and I think the next ten years will be extremely interesting for Indian pharma."*

Commenting on the conversation, **Nikhil**

Kamath, said, *"This conversation made clear something I hadn't quite understood before, that by volume, India is the pharmacy of the world, but by revenue, we're barely a rounding error. The real question, and these two men have spent their careers answering it, is how that changes."*

The episode is available now on YouTube.

About WTF with Nikhil Kamath

WTF is a long-form conversation series hosted by entrepreneur and investor Nikhil Kamath. Each episode brings together builders, thinkers, and industry leaders for extended, unscripted conversations on business, ideas, and the texture of how things actually get done. Past guests include Elon Musk, Bill Gates, Prime Minister Narendra Modi, Rishi Sunak, and Akshata Murty.

India's No. 1 Trade Fair for Hospitals, Health Centres and Clinics



29-31 JAN. 2026

Hall 4 & 5
Bharat Mandapam (Pragati Maidan)
New Delhi, India

17-19 SEPT. 2026

Hall 4
Bombay Exhibition Center
Goregaon (E), Mumbai, India

INTERNATIONAL EXHIBITION AND CONFERENCE



Exhibitor Profile

- Medical Equipment & Devices
- Medical Technology, Healthcare IT Systems & Solutions
- Hospital & Healthcare Infrastructure
- Pharmacy, Dispensary Equipments and Furniture
- Disposables & Consumer Goods
- Imaging & Diagnostics
- Laboratory, Analytical Equipments and Products
- Measuring & Testing Equipments
- Life Sciences and Biotechnology
- Rehabilitation, Orthopaedics & Physiotherapy
- Components

VISITOR
REGISTRATION FOR
DELHI EDITION



(18+ TRADE & BUSINESS VISITORS ONLY)

Special Features



AiMed - Make In India Pavilion



Clin Lab / IVD Pavilion & Conference



Rehabilitation Pavilion



Future for Health Digital
Health Start-up Pavilion &
Conference



MT India Healthcare Awards



International Conferences



Exhibiting Countries

(Delhi Edition)



MALAYSIA



NETHERLANDS



SINGAPORE



SOUTH KOREA



CHINA



CZECH REPUBLIC



TAIWAN



GERMANY



THAILAND



INDIA



UK



JAPAN



USA

For more information, please contact: VermaA@md-india.com or 91-124-4544 507

An initiative by



Supported by



Official Landing Pad
Partner



City of Düsseldorf
Economic Development

Badge
Partner



Media Partner

Microbioz India



Chennai Plastic Surgery Conducts International Hands-on Workshop on Gynecomastia Surgery, Chest Sculpting and Male Chest Contouring

Plastic Surgeons from Across Asia and Australia Receive Advanced Training in Body Contouring, Puffy Nipple Correction, Energy-Based Technologies and Aesthetic Surgery Practice Building

Chennai Plastic Surgery successfully conducted a two-day advanced hands-on workshop on Chest Sculpting in Gynecomastia, bringing together sixteen practicing plastic surgeons, aesthetic surgeons, fellows, and trainees from across Asia and Australia. The intensive academic program focused on the latest techniques in gynecomastia surgery, male chest contouring, body sculpting, energy-based technologies, and aesthetic surgery practice development.



L-R: Dr. Karthik Ramasamy and Chief Guest Prof. Dr. Venkat Ramakrishnan, Senior Consultant Plastic & Reconstructive Surgeon, Apollo Hospitals Chennai & Chennai Breast Center

The comprehensive workshop led by Dr. Karthik Ramasamy, Chennai's renowned Plastic and Cosmetic Surgeon, provided participants with advanced training in the evaluation and management of gynecomastia across all grades. The academic sessions covered key aspects including patient assessment, gynecomastia grading, surgical planning, liposuction-assisted chest sculpting, gland excision, puffy nipple correction, skin tightening procedures, scar minimization, and advanced male chest contouring techniques.

The distinguished faculty panel, comprising Dr. Venkatramakrishnan, Dr. Sivakumar, Dr. Sasi Kumar Muthu, Dr. TNS, Dr. M.D. Nishar, Dr. Preethy, and members of the Chennai Plastic Surgery team, shared their extensive clinical expertise, refined surgical techniques, and practical insights. The faculty emphasized the importance of achieving a natural masculine chest aesthetic while maintaining the highest standards of patient safety, surgical precision, and optimal clinical outcomes in gynecomastia surgery and male chest contouring procedures.

Speaking at the workshop, **Dr. Karthik Ramasamy** said, *"The future of plastic surgery depends on structured training, technology adoption, and hands-on clinical exposure. At Chennai Plastic Surgery, our focus is on advancing gynecomastia surgery, chest sculpting, male chest contouring, and body contouring through live surgical demonstrations and evidence-based learning. Such academic initiatives strengthen surgical decision-making, enhance precision, and improve outcomes in aesthetic surgery practice."*

Beyond Surgery: Integrating Technology, Practice Growth and Next-Generation Plastic Surgery Training

Live Surgical Demonstrations and Clinical Learning

A major highlight of the workshop was the live surgical demonstration of gynecomastia correction procedures performed on patients with varying grades of the condition. Participants observed real-time operative planning, surgical decision-making, advanced chest sculpting techniques, and management of complex cases, along with interactive case discussions and question-and-answer sessions that enriched the overall learning experience in gynecomastia surgery and male chest contouring.

Technology Integration in Modern Aesthetic Surgery

Significant technological value was added through the participation of Mr. Ramamoorthy Sundaram, Managing Director of Spectra, and Mr. Prabakaran, Technical Director of Spectra, who demonstrated advanced energy-based technology devices used in modern aesthetic and surgical procedures.

Participants gained insights into clinical applications, safety protocols, and innovations in energy-based devices, highlighting their role in enhancing surgical precision, improving patient outcomes, and optimizing aesthetic treatment results in body contouring and aesthetic medicine.

Plastic Surgery Practice Building and Growth Strategies

The workshop featured dedicated sessions on plastic surgery practice building, covering key areas such as patient communication, ethical marketing, digital branding, online presence, practice management, reputation building, and consistent patient outcomes.

These sessions provided valuable guidance for young surgeons and aesthetic practitioners seeking to establish and expand successful practices in plastic surgery and aesthetic medicine.

Future of Plastic Surgery Training in India

Discussions on the future of plastic surgery training in India highlighted the growing importance of structured fellowships, cadaveric workshops, simulation-based learning, international collaborations, and exposure to high surgical volumes.

Experts noted that modern plastic surgery education in India is increasingly aligning with global standards, offering training experiences comparable to leading international programs.

About Chennai Plastic Surgery

Chennai Plastic Surgery is a leading centre specializing in plastic surgery, cosmetic surgery, gynecomastia surgery, body contouring, facial aesthetics, reconstructive surgery, and advanced aesthetic procedures.

The institution is committed to delivering exceptional patient care while actively promoting surgical education, innovation, and professional development through specialized workshops, fellowships, and academic training programs.

Antara Senior Care Forays into Integrative Medicine, Launches One-of-a-kind Clinic for Treatment of Chronic Conditions

Integrative medicine is a globally recognised interdisciplinary, evidence-based approach to health and well-being that combines modern medicine with traditional therapies

Antara, India's most comprehensive senior care ecosystem offering end-to-end solutions across all stages of ageing, has opened an integrative medicine clinic in Gurugram, purpose-built for managing chronic conditions.

The Antara Integrated Wellness Clinic (AIWC) brings integrative medicine, combining modern medicine with evidence-based holistic therapies, into Antara's continuum of care for the first time.



Here, a multidisciplinary team of doctors deliver personalised care plans that take a holistic view of a person rather than treating symptoms.

The launch marks a significant evolution in how Antara serves seniors, and in how health and wellbeing can be approached as India's population gets older, the disease burden grows, and the gap between lifespan and health span widens.

Hospital Watch

The Antara Integrated Wellness Clinic in DLF Phase 2, Gurugram

Globally, integrative medicine has gained acceptance for its role in improving outcomes in chronic disease management and enhancing quality of life. The World Health Organisation (WHO) recognises it as an interdisciplinary, evidence-based approach that combines conventional medicine with traditional therapies, such as Ayurveda and energy healing, to look at the mind, body and spirit together; the focus is on the root cause of illness, not just its symptoms.

Ms. Tara Singh Vachani, Executive Chairperson, Antara Senior Care, said, “*Antara has spent more than a decade walking alongside families through all stages of ageing. We have seen them navigate the complexities of a fragmented healthcare system, disjointed treatment plans and episodic care that seldom restore quality of life. Antara Integrated Wellness Clinic is our answer to preserve seniors’ dignity and independence. It is built on the conviction that patients’ problems should be addressed holistically as good health is a combination of physical, emotional, mental, and social wellbeing. As India’s senior population and chronic disease burden grow, fully integrated, holistic wellness models will become key to unlocking a healthy society.*”

Mr. Rajit Mehta, CEO & MD, Antara Senior Care, said, “*Indians are living longer, but the years added are too often years lived with disease, dependency and fatigue. The gap between lifespan and health span is the gap we strive to close. Our goal is straightforward: help seniors live their best life possible; prevent the hospital visits we can, reduce medication where possible, and restore function where we can. At AIWC, seniors benefit from a coordinated care journey designed by one multidisciplinary team, beginning with a comprehensive health assessment, followed by personalised wellness plan, and multi-pronged approach that addresses physical, mental and emotional health.*”

Dr. Pankaj Verma, Medical Director, Antara Integrated Wellness Clinic, explained, “*In integrative medicine, modern medicine is the anchor, and traditional systems work alongside it to address lifestyle, stress, the inflammation that sits underneath chronic diseases. For a senior with diabetes, hypertension and joint pain, coming to AIWC means a clear focus on addressing the root cause—the hidden mind-body link that often feeds the disease. Over time, many of our patients can reduce their pill load and recover function they had given up on. This is what whole-person medicine looks like in practice.*”

Antara’s integrative clinic offerings combine functional medicine consultations, Ayurvedaprakriti analysis, advanced therapies such as IV cellular nutrition (high-dose Vitamin C, Glutathione), medical-grade ozone therapy and Far Infrared sauna, classical Ayurveda and Panchakarma, acupuncture, energy and vibrational healing, and integrative counselling. Care is organised through 10 condition-focused programmes: JointCare, HeartCare, DiabetesCare, BreathCare, GutCare, LiverCare, MindCare, WeightCare, and CancerCare, the last designed as complementary support alongside standard oncology care.

For India, care pathways like integrative medicine are becoming increasingly important as its senior population is set to more than double to 347 million by 2050, bringing with it unique clinical needs that the traditional healthcare system cannot address alone.

About Antara Senior Care

Launched in 2013, Antara is the senior-care business of Max India Limited, part of the USD 7-billion Max Group. It is an integrated ecosystem for senior care, operating in two main lines of business – Residences for Seniors and Assisted Care Services. Antara’s first senior residential community in Dehradun, comprising nearly 200 families, caters to their social, recreational, educational, wellness, and health-related needs. In the near future, it will open its second senior living community in Noida’s Sector-150, with families moving into the 340 apartments built in the first phase. Expanding its footprint in Gurugram, Antara will manage senior living residences, dedicated spaces for senior living, and primary healthcare services at Estate 360 and Estate 361, developed by Max Estates. Antara’s Assisted Care Services include Care Homes and Services, AGEasy, and Antara Integrated Wellness Clinic.

This line of business caters to seniors, who need more immersive interventions in their daily lives due to medical or age-related issues. With eight facilities and 485 beds across Gurugram, Noida, Bengaluru and Chennai, Care Homes provide long-term care to seniors who require constant medical and nursing supervision, and short-term care services for the recuperation of seniors. Its care at home services, offered in Delhi NCR, Bengaluru and Chennai, provide well-equipped, trained professionals offering care to seniors inside their home’s comfort.

Hospital Watch

AGEasy, an online and offline store focusing on senior-specific products and solutions to manage chronic health conditions at home, has touched over 6.5 lakh lives since inception in 2023. Antara Integrated Wellness Clinic combines modern medicine with evidence-based traditional therapies through a multidisciplinary team of doctors to deliver personalised care plans.

Yashoda Hospitals HITEC City Launches Advanced Allergy & Immunotherapy Clinic to Strengthen Comprehensive Allergy Care

Reinforcing its commitment to advanced respiratory and allergy care, Yashoda Hospitals, HITEC City, through its Academy for Advanced Pulmonary Education & Research, has launched the **Advanced Allergy & Immunotherapy Clinic**. The dedicated clinic aims to provide comprehensive diagnosis, management, and long-term treatment for a wide range of allergic and immunological disorders through evidence-based and personalized care.

The newly launched clinic offers an integrated spectrum of services including **clinical consultation, diagnostic allergy testing, management of allergic disorders, allergen-specific immunotherapy, advanced biologic therapies, emergency allergy care, and patient education & preventive care.**

Functioning from the **2nd Floor, Pulmonology OPD at Yashoda Hospitals, HITEC City**, the clinic will be operational from **Monday to Saturday, 9:00 AM to 5:00 PM**, enabling patients access to specialized care for respiratory allergies, asthma, skin allergies, food allergies, and immune-related conditions.

Speaking on the occasion, **Dr V. Nagarjuna Maturu is a Senior Consultant, Clinical and Interventional Pulmonology, at Yashoda Hospitals, HITEC City, Hyderabad** said, “Allergic diseases are among the most common yet under-recognized health problems affecting people today, impacting multiple organs including the lungs, skin, eyes, nose, and gut. With the growing burden of allergy and asthma, there is an urgent need for dedicated, specialized care. The launch of the *Advanced Allergy & Immunotherapy Clinic* at Yashoda Hospitals is a significant step towards providing accurate diagnosis, personalized treatment, and advanced therapies that can help patients achieve long-term relief and improved quality of life.”



The launch event was attended by distinguished pulmonologists and experts in respiratory medicine, including Dr. Hitesh Billa, Dr. Deepika Kucheralapati, Dr. Sathya Prakash, and Dr. Kaadi Shirish kumar, who joined as Guests of Honor to mark the launch and discuss the growing importance of specialized allergy and immunotherapy services in India.

About Yashoda Group: Yashoda Group of Hospitals has been providing quality healthcare for 3 decades for people with diverse medical needs. Under astute leadership and strong management, Yashoda Group of Hospitals has evolved as a centre of excellence in medicine providing the highest quality standards of medical treatment.

Guided by the needs of patients and delivered by perfectly combined revolutionary technology even for rare and complex procedures, the Yashoda Group hosts medical expertise and advanced procedures by offering sophisticated diagnostic and therapeutic care in virtually every specialty and subspecialty of medicine and surgery. Yashoda Hospital, Hyderabad has 4 independent hospitals in Somajiguda, Secunderbad, Malakpet and Hitech city with 4000 beds. With a constant and relentless emphasis on

quality, excellence in service, empathy, Yashoda Group provides world-class healthcare services at affordable costs.

Hospital Watch

City's First Multispeciality Hospital Dedicated Exclusively to Women Opens in New Delhi

The Women's Hospital has been built as a premium, clinician-led healthcare home for women and girls across every age, phase and concern, from menarche to menopause and beyond, for her for life

New Delhi, Delhi, India

- The 30,000 sq. ft. facility brings together 34 beds, including 12 NICU beds, to offer integrated, life-stage care for women under one roof.
- With 10 dedicated life-stage clinics, 3 modular OTs and 3 labour delivery suites, TWH is designed to support women from menarche to menopause and beyond.
- The hospital offers 16 key specialties across preventive care, diagnostics, treatment, NICU care, holistic wellness, aesthetics and long-term health support.
- Designed with a Zero Indoor AQI environment, advanced air purification systems, continuous monitoring, infection-control protocols, privacy-led layouts and calming interiors, TWH brings patient-first details into every part of care.

The Women's Hospital, city's first multispeciality hospital dedicated exclusively to women, is now open at R-1, Nehru Enclave, Outer Ring Road, New Delhi. Founded by Ms. Anika Parashar and her founding team, the hospital has been established with an investment by The Select Group, and other investors, with The Select Group being the principal investor. The Women's Hospital (TWH) has been created to address one of the biggest gaps in Indian healthcare: the absence of one trusted, judgment-free, multispeciality space that understands women's health as a lifelong journey.



Key dignitaries at the launch of The Women's Hospital (TWH) in Nehru Enclave, New Delhi

The launch was graced by Chief Guests Mrs. Jyotsana Sharma, Mrs. Saroj Singh and Mrs. Mala Baijal. Spread across 30,000 sq. ft., this state-of-the-art facility brings together clinical care, preventive health, diagnostics, holistic wellness, aesthetics and life-stage clinics under one roof.

The hospital has been designed for girls and women across every phase of life, from a teenager trying to understand her first period, to a woman navigating PCOD, fertility, pregnancy, postpartum recovery, menopause, cancer screening, metabolic health, ageing, emotional wellbeing or cosmetic care.

The need for such a model is urgent because women's healthcare in India can no longer be viewed through one or two touchpoints alone. With approximately 355 million menstruating women, around 23 million girls dropping out of school due to lack of menstrual hygiene, nearly 60,000 cervical cancer deaths reported annually, 25% of Indian women estimated to be affected by PCOD/PCOS, and 1 in 6 Indian couples affected by infertility, the gaps are visible across every life stage.

These are not isolated concerns. They point to the need for dedicated clinics that can support women through all stages.



Hospital Watch

TWH addresses these concerns and aims to move women's healthcare beyond delayed, episodic and fragmented treatment. Its model is rooted in care from menarche to menopause and beyond, with dedicated clinics for Menarche & Adolescence; Reproductive Years & Fertility; Pregnancy, Birth & Newborn Care; Early Motherhood & Postpartum; Midlife & Menopause; Chronic & Metabolic Health; Cancer Screening, Treatment & Survivorship; Cosmetic and Aesthetic Care; Care for Golden Women; and Mental Health, Nutrition & Functional Medicine.

Speaking on the launch, **Anika Parashar, Founder & CEO, The Women's Hospital**, said, *"TWH comes from a gap I have seen in over 25 years of working closely with women, families, doctors and healthcare teams. Women are often expected to care for everyone else, but when it comes to their own health, they are left to navigate fragmented systems, repeat their stories, delay care, or feel unheard. TWH has been built to change that. We want to create a healthcare home where a girl, a mother, a working woman, a woman in menopause, or an elderly woman can access specialised, preventive and holistic care without judgment. Every detail, from our clinical blueprint and life-stage clinics to the doctors, privacy, air quality and patient experience, has been designed to make women feel safer, supported and more in control of their health."*

Mr. Arjun Sharma, Chairman, The Select Group, shared, *"Throughout our journey in hospitality and retail, we have always believed that the businesses that endure are those that genuinely serve people at their most human moments. The Women's Hospital is our most purposeful investment to date - not just because of the scale of the unmet need, but because of the vision Anika and her team have brought to addressing it. India has world-class hospitals, but very few spaces that truly centre the woman as a whole person across her entire life. TWH does exactly that, and I am delighted to back it."*

The leadership team includes Ms. Anika Parashar, Founder & CEO, Mr. Gaurav Singh, Chief Operating Officer; Mr. Veneet Garg, Chief Financial Officer; Mr. Harjeet Singh, Head – Chief Administration and Projects Officer; and Ms. Shruti Saxena, Chief Experience and People Officer.

The hospital brings together a distinguished clinical team, including Dr. Raghuram Mallaiah, Executive Director – Neonatology; Dr. Anjila Aneja, Executive Director – Obstetrics, Gynaecology, Minimal Access and Robotic Surgery; Dr. Neena Bahl, Executive Director – Obstetrics, Gynaecology, Minimal Access and Robotic Surgery; Dr. Vijay Murthy, Executive Director – Functional Medicine; Dr. Karishma Thariani, Director – Urogynecology; Dr. Debashish Chaudhary, Director – Oncology; Dr. Surakshith TK, Director – Gastroenterology; and Dr. Gaurika Sahi, Director – Radiology.

The hospital's clinical offering spans gynecology, obstetrics, neonatology and milk bank, urogynecology, IVF and reproductive medicine, mental health and counselling, breast surgery and oncology, functional medicine, cosmetic and reconstructive surgery, general surgery, gastroenterology, endocrinology, internal medicine with a women-focused approach, dermatology and aesthetics, nutrition and dietetics, and physiotherapy and rehabilitation.

With 34 total beds, including 12 NICU beds, TWH is equipped with 3 modular operation theatres, 3 labour delivery suites, 1 recovery room and 1 emergency bed. The hospital has also been built with deeply intentional patient-first details, including a Zero Indoor AQI environment supported by advanced air purification systems and continuous monitoring, infection-control protocols, privacy-led layouts, calming interiors and premium patient rooms.

TWH also brings advanced technology and care-led innovation into its clinical infrastructure, including robotic-assisted surgery, next-generation operating theatres, India's first Korean-designed operating suite, advanced fetal medicine and high-resolution prenatal imaging, the 1788 laparoscopic platform, premium Hillrom LDR beds and India's first fully integrated NICU powered by the GE satellite monitoring system. Nutrition has also been designed as part of clinical care, with hospital menus created by clinical nutritionist Dr. Lovneet Batra and curated in collaboration with chefs.



The kitchen philosophy includes therapeutic meal plans tailored to pregnancy, recovery and metabolic health, no Teflon cookware, no palm oil in food preparation and organic ingredient options wherever possible.

Every detail, from the clinical blueprint to the way a woman enters, waits, consults, recovers and follows up, has been designed to make care feel safer, warmer and more human.

Located close to Greater Kailash, Kalkaji, Saket, Panchsheel Park, Defence Colony, Swami Nagar and Hauz Khas, The Women's Hospital aims to become a trusted healthcare home for women and families, not only in moments of illness, but through awareness, prevention, treatment, recovery and lifelong wellbeing.

Apollo Hospitals, Seshadripuram Adds Second Cath Lab as Demand for Advanced Cardiac Care Continues to Rise

New facility increases capacity to nearly 500 procedures a month and will help treat an additional 3,000 patients annually

Apollo Hospitals, Seshadripuram has commissioned its second Cardiac Catheterization Laboratory (Cath Lab), expanding its ability to provide timely cardiac interventions and meet the growing demand for specialised heart care in Bengaluru and neighbouring districts.



The new Cath Lab was inaugurated by **Dr. C. N. Manjunath, renowned cardiologist and Member of Parliament, Bengaluru Rural Lok Sabha Constituency**, in the presence of senior specialists from the hospital's Cardiac Sciences team, along with **Mr. Akshay Oleti, CEO, Apollo Hospitals, Karnataka Region**, and **Mr. Uday Davda, Vice President, Apollo Hospitals, Sheshadripuram**.

Apollo Hospitals, Seshadripuram currently manages more than **4,000 cardiac cases annually**. Since its installation in 2015, the hospital's first Cath Lab has handled over **27,000 procedures**, supporting both emergency and planned cardiac interventions around the clock. With the addition of the second Cath Lab, the hospital will be able to perform approximately **200 additional procedures every month, taking its total capacity to nearly 500 procedures per month**.

The expansion is expected to benefit nearly 3,000 additional patients every year.

The newly installed facility is equipped with the ****GE Allia platform****, which offers advanced fusion imaging technology designed to support complex procedures while reducing radiation exposure and contrast usage. The system will be used across a range of specialties, including interventional cardiology, structural heart disease, electrophysiology, vascular interventions, neuro-intervention and paediatric cardiology.

Addressing the gathering, **Dr. C. N. Manjunath, renowned cardiologist and Member of Parliament, Bengaluru Rural Lok Sabha Constituency**, said, "In cardiac emergencies, every minute matters. Delays in treatment can significantly impact outcomes, which is why expanding Cath Lab infrastructure is important. The commissioning of this second Cath Lab at Apollo Hospitals, Sheshadripuram is a valuable addition that will help meet the growing demand for advanced cardiac and vascular interventions in Bengaluru."

Speaking on the occasion, **Mr. Akshay Oleti, CEO, Apollo Hospitals, Karnataka Region**, said, "The demand for advanced interventions had grown steadily over the years. The second Cath Lab is a practical step towards ensuring that we can accommodate more patients, undertake complex procedures without scheduling constraints, and respond faster when emergencies arrive."

It also reflects our continued investment in strengthening specialised care services across Karnataka."

Mr. Uday Davda, Vice President, Apollo Hospitals, Sheshadripuram, said, "Cardiac emergencies do not come with prior notice. There are times when emergency cases, referrals and scheduled procedures overlap during the same period. The additional Cath Lab helps us manage those situations more efficiently and gives our clinical teams greater flexibility. For patients, this means quicker access to treatment and shorter waiting periods."

The expanded facility will support a wider range of procedures including complex coronary interventions, structural heart procedures, advanced electrophysiology procedures, peripheral vascular interventions, neuro-interventional procedures and paediatric cardiac interventions.

Representing the Cardiac Sciences team, **Dr. B. C. Srinivas, Dr. Jayaranganath M, Dr. Srinivas K. H, Dr. Vikram B. Kolhari, Dr. Somashekar C. M, Dr. Roopa R, Dr. Manoj Kumar S. P, Dr. Anand Subramanyam and Dr. Shashidhar K. P**, said, "The scope of procedures performed in Cath Labs has expanded considerably over the years. The new system provides improved imaging quality while helping reduce radiation exposure and contrast usage during complex interventions. Equally

important, the additional Cath Lab allows us to maintain faster response times for emergency patients while continuing scheduled procedures without disruption."

One of the immediate benefits of the second Cath Lab will be improved access for emergency patients. The additional facility will help ensure that patients arriving with acute cardiac conditions can be taken up for intervention without delays, while also reducing waiting periods for elective procedures.

The technology is expected to be particularly beneficial for paediatric patients. Compared to the previous generation system, the new platform can reduce radiation exposure by nearly **50 percent**, an important advantage for children who may require complex interventions and follow-up imaging during the course of treatment.

Apollo Hospitals, Sheshadripuram is a **200-bed multi-speciality hospital and is currently expanding to **350 beds**.** The addition of the second Cath Lab further strengthens the hospital's cardiac sciences programme and enhances its ability to deliver comprehensive care across cardiology, cardiothoracic surgery, vascular surgery and allied specialties.

Zyklus marks Global Fatty Liver Day with the launch of new public awareness campaign – 'Liver Ki Suno'

Nearly 40% of adults are at risk of fatty liver disease which has emerged as a growing health concern

Lifesciences Limited, an innovation-driven global lifesciences company, today launched the second edition of its public health awareness campaign, #LiverKiSuno, on the occasion of Global Fatty Liver Day.

Hospital Watch

The campaign seeks to raise awareness about liver health and encourage individuals to pay attention to silent risks that often go unnoticed until liver disease has progressed significantly.

Watch the ad

film: <https://www.youtube.com/watch?v=G3J1BwJmzc>



Dedicated To Life

Fatty liver disease has emerged as a growing public health concern, with nearly 40% of adults estimated to be at risk.

Despite its increasing prevalence, the condition often remains undetected due to the absence of obvious symptoms in its early stages. Through 'Liver Ki Suno', Zydus aims to encourage greater awareness, timely screening and proactive management of liver health.

The campaign highlights key metabolic risk factors that can adversely affect the liver, including diabetes, excess body weight and high triglycerides. Their roles are similar to 'villains' who cause extensive damage.

To bring this message to life, the campaign features acclaimed actor Ashish Vidyarthi, known for portraying some of Indian cinema's most memorable villains.

Drawing a contrast between villains on screen and hidden health risks within the body, the film encourages individuals to recognise these silent threats and take timely action to protect their liver health.

The ad film has been scripted and produced by **TheSmallBigIdea (TSBI)**, with the agency overseeing the campaign's creative development, production and post-production. The campaign is live across digital and social platforms, including YouTube, Instagram, Facebook, LinkedIn and X.

As part of the initiative, Zydus encourages individuals, particularly those living with diabetes, excess body weight or elevated triglyceride levels, to discuss liver health with their healthcare professionals and consider incorporating liver scans into routine health check-ups.

Apollo Hospitals Launches Its 76th Smart Hospital in Hyderabad

Apollo Hospitals has officially launched its **76th hospital**, a 400-bed smart tertiary care facility in Hyderabad's Financial District, marking a major milestone in India's healthcare expansion journey.



The new hospital has been designed as a technology-led healthcare ecosystem, integrating AI-assisted clinical workflows, advanced ICUs, robotic surgery capabilities, and digitally connected patient care systems.

Apollo aims to address the growing demand for complex treatments in oncology, cardiology, neurosciences, and organ transplantation.

The facility also incorporates smart command centers to improve patient flow, operational efficiency, and clinical decision-making.

The expansion aligns with India's rapidly growing demand for premium healthcare infrastructure and medical tourism opportunities.

Industry experts believe Apollo's investment signals a new era of digitally connected hospitals across India.

Manipal Hospitals Prepares \$1 Billion IPO Expansion Strategy

Manipal Hospitals is reportedly preparing for a **\$1 billion IPO** expected to launch in July 2026, targeting a valuation of nearly \$10 billion.

The move comes as India's private hospital sector enters a significant expansion phase driven by increasing healthcare demand.

Manipal continues to strengthen its footprint after strategic acquisitions and capacity expansion across multiple cities.

The IPO proceeds are expected to support hospital development, digital infrastructure upgrades, and technology investments.



Analysts see Manipal becoming one of India's largest integrated healthcare networks.

The development reflects growing investor confidence in India's healthcare economy.

Andhra Pradesh Launches AI-Based Diabetic Retinopathy Screening Program

The **Andhra Pradesh Government** has launched an AI-enabled diabetic retinopathy screening pilot program across government hospitals.



The initiative will use artificial intelligence to identify early signs of diabetes-related vision complications. Healthcare professionals can now screen larger populations more efficiently, particularly in underserved areas.

The program aims to reduce preventable blindness while improving early intervention.

This initiative highlights how AI is moving beyond private hospitals into public healthcare systems. Experts expect similar deployments to expand across other Indian states.

Lavender Lane Opens India's First Pediatric Super-Speciality Care Centre

Lavender Lane Child Development **Centre** has launched India's first pediatric super-speciality care centre in Noida.

The facility combines multiple pediatric specialties under one integrated care model.



The center offers coordinated treatment pathways for neurology, developmental disorders, rehabilitation, nutrition, and behavioral health.

A family-centric care model has been adopted to improve patient experiences and treatment outcomes.

The launch addresses increasing demand for specialized pediatric healthcare in India. Experts believe dedicated pediatric ecosystems will become a major growth segment in the coming years.

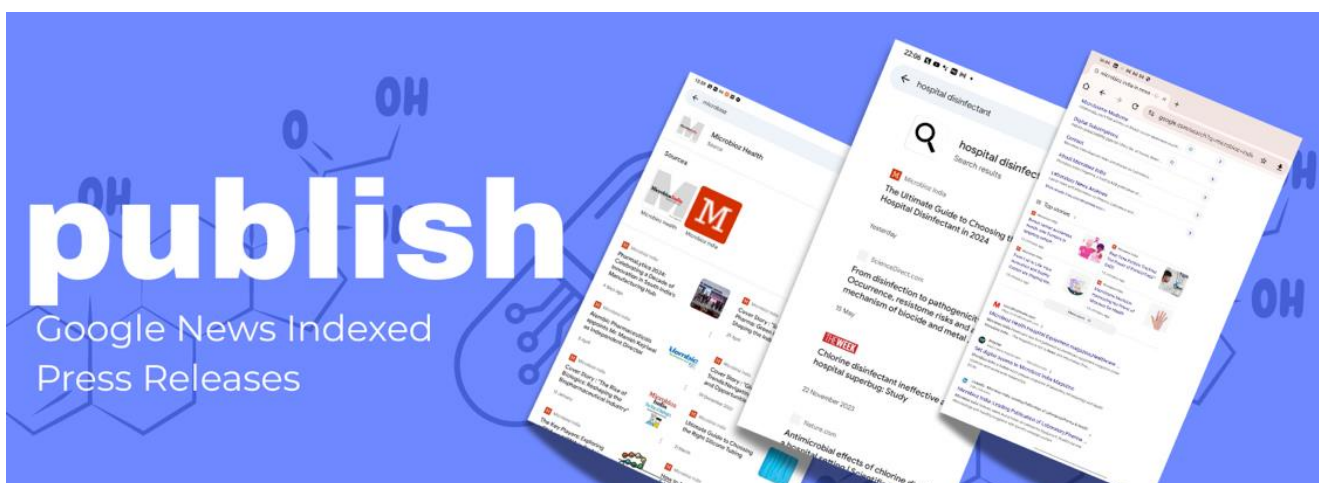
India's Hospital Sector Enters a New Growth Cycle

Leading hospital brands including **Fortis Healthcare**, **Max Healthcare**, **Narayana Health**, and **Aster DM Healthcare** are aggressively expanding capacity throughout India.

Healthcare providers are investing in new



hospitals, specialty centers, and digital health platforms. Demand is being driven by aging populations, rising chronic diseases, and increasing health awareness. Tier II cities are emerging as the next major healthcare investment destinations. Hospital operators are simultaneously upgrading technology and improving operational efficiency.





Apollo Hospitals Bets Big on AI to Reduce Clinical Workload and Improve Patient Care

India's leading healthcare provider, **Apollo Hospitals**, is significantly expanding its artificial intelligence capabilities across its hospital network to automate routine clinical tasks and support doctors and nurses. The initiative focuses on reducing administrative burden and improving patient management systems.



The company is deploying AI-powered medical documentation, clinical decision support systems, and digital patient engagement tools to enhance operational efficiency.

Apollo is also investing in predictive analytics to optimize bed utilization and improve patient outcomes.

The move comes as hospitals across India face increasing patient volumes and shortages of skilled healthcare professionals.

Apollo's strategy positions the organization as a leader in digital healthcare transformation in India.

Industry experts believe AI adoption will become a standard feature across major hospital chains over the next five years.

Manipal Hospitals Targets Nationwide Growth with New Capital Plans

Manipal Hospitals is advancing plans for a major public offering to fund aggressive expansion across India. The hospital chain continues strengthening its presence through acquisitions and infrastructure investments after successfully integrating several healthcare networks in recent years.

Manipal is focusing on expanding into underserved Tier-II and Tier-III cities where demand for quality healthcare is rapidly increasing.



The company is also investing heavily in oncology, organ transplantation, and advanced critical care services.

Industry analysts expect Manipal to emerge as one of India's largest integrated healthcare providers over the next decade.

The expansion reflects growing investor confidence in India's rapidly expanding healthcare sector.

Max Healthcare Enters Its Next Growth Phase with New Hospital Investments

Max Healthcare is expanding its hospital network to meet rising healthcare demand across metropolitan and emerging cities.



The company is investing in specialty care centers, advanced surgical infrastructure, and digital patient care platforms. Max Healthcare has become one of India's fastest-growing private hospital chains by focusing on high-acuity specialties including oncology, cardiology, and neurosciences.

The company is also benefiting from increasing insurance penetration and rising healthcare awareness.

Healthcare investors continue to view the hospital sector as a long-term growth opportunity.

The expansion strategy is expected to strengthen Max Healthcare's national footprint over the coming years.

Fortis Healthcare Builds Connected Care Ecosystem Across Hospitals and Diagnostics

Fortis Healthcare is accelerating its integrated healthcare strategy by strengthening collaboration between hospitals and diagnostics businesses.

The company is leveraging **Agilus Diagnostics** to provide seamless patient care from diagnosis to treatment.



Fortis continues investing in smart hospital technologies, digital health records, and advanced patient monitoring systems.

The organization is also expanding specialty services in oncology, cardiac sciences, and minimally invasive surgery.

Experts believe integrated healthcare ecosystems will become a major competitive advantage for hospital operators.

Fortis remains one of India's most recognized healthcare brands with a strong multi-city presence.

Apollo, Fortis, Max and Manipal Hospitals Expected to Join Expanded Coverage

Delhi Health authorities have announced plans to bring major private hospital chains under the **Ayushman Bharat PM-JAY** scheme in the coming weeks.

Leading healthcare providers including Apollo, Fortis, Max, and Manipal are expected to participate, significantly expanding patient access to affordable treatments. The initiative could increase healthcare accessibility for economically weaker populations.

Hospitals are expected to benefit from larger patient volumes and improved government partnerships. The development may accelerate public-private healthcare collaborations nationwide. Industry observers believe this move could reshape India's healthcare delivery model.

Interest in Indian Hospital Sector KKR Eyes Billion-Dollar Healthcare Investment in India

Global private equity giant **KKR** is reportedly in advanced talks to acquire a majority stake in **Medicover Hospitals India** in a deal valued at over \$1 billion.

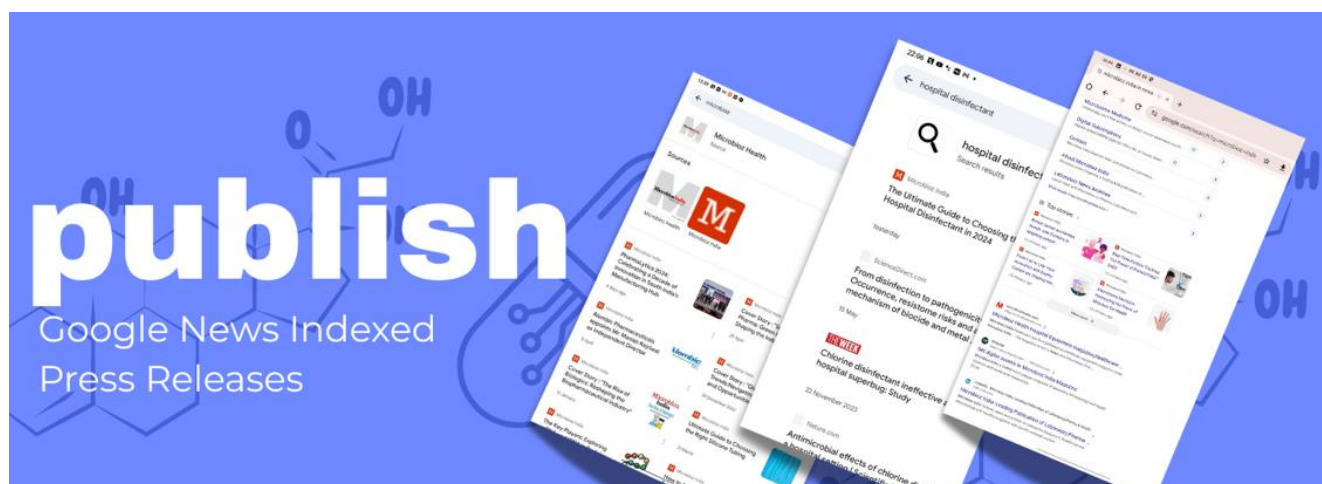
The transaction highlights increasing international confidence in India's healthcare growth story.

India's hospital sector is attracting investors due to rising incomes, expanding insurance coverage, and growing demand for quality healthcare services.

Private equity firms are actively seeking opportunities in hospital infrastructure, diagnostics, and specialty care services.

Healthcare is increasingly being viewed as one of India's most resilient long-term investment sectors.

Experts predict further consolidation among hospital chains over the next three years.



Product Showcase

WARMJET: Redefining Fluid Warming in Critical Care

When every degree counts, WARMJET steps in with calm precision. Designed to prevent hypothermia during blood transfusions and IV fluid administration, WARMJET delivers controlled, consistent warming without disrupting clinical workflows. Its compact form factor and compatibility with standard IV lines mean no special disposables, no complexity, just dependable performance with built in safety at every stage.



Made for operating rooms, ICUs, and emergency settings, WARMJET is engineered to perform under pressure. Fast setup, stable temperature control, and layered thermal protection ensure fluids reach the patient at the right warmth, right on time. Quietly efficient and easy to use, WARMJET supports clinicians where it matters most, at the bedside.

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.

From its humble beginnings in 1996 in Tiruchirapalli, founded by two visionary engineers, AKAS has grown into one of India's leading infusion pump manufacturers.



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.

Experience the Future of Infusion Technology
<https://www.akasinfusions.com/>

AKAS Medical Equipment
SP127, 1st Main Road,
Ambattur Industrial Estate,
Chennai – 600058
+91-98403 79116
sales@akasinfusions.com



Beyond Maintenance

Service That Supports Care

LEARN MORE



Product Launches



Sysmex America Launches New Hematology Solution for Clinical Labs



The XR-Series features higher throughput and enhanced analytics to streamline daily laboratory operations.

Sysmex America has introduced the XR-Series, a hematology solution designed to assist laboratories with high-volume testing and workflow efficiency.

The system is centered on the XR-10 Automated Hematology Module, which is intended for high-complexity laboratories requiring speed, consistency, and dependable performance.

The XR-Series builds upon the previous XN-Series by adding increased throughput and complementary solutions for daily operations. Enhancements include a new white blood cell (WBC) differential reagent and 3D scattergram visualization. The XR-20 Automated Hematology Module also offers an optional WPC channel. According to the company, these updates provide insights that support result interpretation and improve flagging accuracy.



sysmex | Together for a better healthcare journey

The new reagent formulation is designed to allow greater separation of cell clusters in the WBC differential scattergram without sacrificing accurate flagging.

“The XR-Series reflects our commitment to helping laboratories work smarter without disrupting the workflows they depend on,” says Dan Zortman, CEO of Sysmex America, in a release. “By combining proven reliability, advanced analytics and the support of our award-winning service teams, the XR-Series **analyzers** help laboratories deliver the accuracy and precision clinicians rely on for outstanding patient care.”

For current users of **Sysmex hematology systems**, the transition is designed to be seamless as the series maintains the user interface and modular design of the XN-Series.

Product Launches

Additionally, the XR-9000 configuration for **high-volume laboratories** integrates with other products to automate routine steps and increase efficiency across the laboratory.

The series is supported by the company's service and support teams to assist laboratories in maintaining system performance and **result confidence**.

Photo caption: Sysmex America's next generation XR-Series, a hematology solution designed to help busy laboratories deliver fast, reliable results while maintaining efficient workflows.

Photo credit: Sysmex America

Can a Blood Test Identify Head and Neck Cancer Patients at Risk of Recurrence?



An experimental assay detected residual HPV-related cancer DNA after surgery and was associated with poorer outcomes in an observational study.

Investigators from Mass General Brigham Cancer Institute have developed an ultrasensitive **blood test** that identifies patients with human papillomavirus (HPV)-associated head and neck cancer who may still harbor cancer cells after surgery.

The **study**, published in *Science Translational Medicine*, suggests the test could help clinicians determine which patients would benefit most from additional treatments like radiation or chemoradiation.

Currently, clinicians rely on general risk factors to make these decisions, which can lead to some patients receiving more treatment than necessary and others receiving too little.

“After surgery for HPV-associated head and neck cancer, we currently rely on very general clinical risk factors to determine which patients need more treatment and which patients do not,” says **Daniel Faden**, MD, director of the head and neck cancer genomics and liquid biopsy program at Mass General Brigham Cancer Institute, in a release. “That means some patients receive more treatment than they actually need, resulting in more side effects of treatment, while others receive less treatment than they should—and later have their cancer come back.”

Detecting Viral DNA

HPV-associated head and neck cancers occur when the virus inserts its DNA into human cells, driving tumor growth. As tumor cells die, they release small fragments of HPV DNA into the bloodstream. The new test, called HPV-DeepSeek, is designed to detect these tiny fragments.

The research team followed 103 people with newly diagnosed, untreated HPV-associated head and neck cancer scheduled for surgery between August 2020 and March 2024.

Product Launches

Investigators analyzed 560 blood samples taken before surgery, after surgery, and during surveillance over a period of more than two years.

At the time of diagnosis, HPV-DeepSeek identified **circulating tumor HPV DNA** in 98.1% of patients. In the testing window following surgery, 23% of patients had detectable viral DNA.

Predicting Survival and Recurrence

The study found that patients with positive test results after surgery had significantly worse outcomes than those with negative results. Only 60% of patients with detectable tumor DNA were disease-free at two years, compared with 100% of patients who tested negative.

Additionally, only 73% of patients with detectable tumor DNA were still alive at the end of the trial, compared with 98% of patients with negative tests.

HPV-DeepSeek also **detected cancer recurrence earlier** than traditional clinical methods, providing a lead time of approximately seven months.

“What excites me most about this approach is the possibility of moving beyond generalized risk estimates and toward truly personalized care,” says Faden, in a release. “If we can accurately identify residual disease at the molecular level, we may eventually be able to make treatment decisions based on the biology of an individual patient’s cancer rather than broad clinical categories.”

The researchers noted that the study was observational and conducted within a single healthcare system. The team is now planning larger, multi-site clinical trials to evaluate using the test to guide treatment selection after surgery for patients with HPV-associated head and neck cancer.

ID 2783123 | University © Pmisak | Dreamstime.com

FDA Clears New Automated Blood Culture System for Faster Sepsis Detection

The BD BACTEC FXI Culture System reduces detection time for bloodstream infections by approximately three hours compared to previous models.

Waters Corp announced that the Food and Drug Administration (FDA) granted 510(k) clearance for the BD BACTEC FXI Culture System, designed to accelerate sepsis detection. This clearance allows for the commercialization of the **fully automated blood culture system** in the US.

The system is designed to improve the speed, consistency, and accuracy of sepsis and bloodstream infection diagnostics in **microbiology laboratories**. According to clinical study data cited by the company, the system reduced mean time to detection by approximately three hours, or 15%, compared with the previous-generation BD BACTEC FX Blood Culture System. Detection time was reduced from 20 hours to 17 hours. Faster detection is intended to enable earlier pathogen identification and more timely targeted **antimicrobial therapy** for patients with suspected bloodstream infections and **sepsis**. This is critical in acute care settings, as each hour of delayed sepsis treatment increases mortality by 3.6% to 9.9%, according to the company. “Recent evidence-based laboratory guidelines document the beneficial clinical impact of rapid laboratory results for the detection of bloodstream infections; therefore, advancing the science of automated blood culture instruments is critical to further speed results,” says **Donna M Wolk**, PhD, division chief, molecular and microbial diagnostics and development at Geisinger Medical Laboratories, in a release.

Product Launches

“Reducing the time to detection for positive results is key to improving the availability of Gram stain and other tests, on which **treatment decisions** are based. The faster, the better.”

Reducing Pre-Analytical Variability

The BD BACTEC FXI Culture System features automated gravimetric measurement of individual blood culture vial volume.

By objectively confirming blood volume in each vial, the system aims to reduce pre-analytical variability and support adherence to recommended collection practices. “The system helps laboratories support earlier clinical decisions for patients with suspected sepsis and bloodstream infections when every hour matters,” says Jianqing Bennett, senior vice president of Waters Advanced Diagnostics at Waters Corp, in a release.

Automation for High-Throughput Laboratories

Designed for high-throughput microbiology labs, the system **fully automates** vial loading, unloading, incubation, and detection alerts, according to a company release. It features an automated loading capacity of up to 60 vials at a time and is available in 480- and 960-vial configurations. The system is intended to deliver scalable efficiency while reducing manual intervention and increasing staff walk-away time.

The BD BACTEC FXI Culture System was recently **CE marked** under the European Union In Vitro Diagnostic Regulation and licensed by the Japan Pharmaceuticals and Medical Devices Agency for availability in Europe and Japan.

Photo caption: The FDA 510(k)-cleared BD BACTEC FXI Culture System is now available to the US market.

Photo credit: Waters Corp

Azenta Life Sciences and PulpFixin Partner for Sustainable Labware



The collaboration integrates recyclable storage platforms into existing sample management workflows to reduce plastic waste without disrupting laboratory operations.

Azenta Life Sciences announced a collaboration with PulpFixin, a manufacturer of sustainable labware, to help laboratories **reduce plastic waste** without sacrificing performance, traceability, or operational efficiency.



AZENTA
LIFE SCIENCES

The partnership combines Azenta's expertise in sample management and **lab automation** with the PulpFixin AutoRack 100% recyclable storage platform.

Product Launches

This integration is designed to provide scalable sustainability improvements without requiring major workflow redesign, automation revalidation, or disruption to existing sample management processes.

“At Azenta, we’re committed to advancing more environmentally responsible laboratory workflows and supporting customers as they work toward their sustainability goals,” says Michael Bussmann, vice president and general manager of **consumables and instruments** at Azenta, in a release. “We’ve already taken steps in this direction, including offering Society for Biomolecular Screening racks made with 90% recycled content, and we continue to look for ways to expand lower-impact options across our portfolio.”

Bussmann says that by combining the biodegradable rack platform with established FluidX sample management workflows, laboratories can reduce reliance on conventional plastic lab consumables. The system maintains compatibility with automation systems, sample integrity, **cold-chain performance**, and operational scalability.

“Azenta has consistently demonstrated leadership in helping laboratories modernize operations while addressing evolving customer expectations around sustainability,” says Chad Jenkins, CEO of PulpFixin, in a release.

“This collaboration represents a shared commitment to delivering solutions that support laboratory performance, automation compatibility, and environmental responsibility without increasing operational burden or cost.”

The companies aim to provide laboratories with scalable sample management solutions that reduce the costs associated with **plastic waste disposal**, recycling logistics, and sustainability reporting requirements across laboratory operations.

The Pediatric Testing Problem Labs Aren’t Measuring

You can’t analyze what you can’t access.

By Francesca Kelly, PBT(ASCP), MLA, RBT



Physicians and parents rely on laboratory testing to guide critical decisions about a child’s care. Bloodwork supports diagnosis, informs treatment plans, and enables ongoing monitoring. In practice. However, the ability to obtain a specimen is not always straightforward, particularly in **pediatric settings**. For many children, especially those with sensory sensitivities, anxiety, or developmental differences such as autism or ADHD, blood collection can be an overwhelming experience.

Product Launches

A procedure that appears routine from a clinical perspective can quickly become distressing for the child and challenging for caregivers and clinical staff to manage.

When this occurs, the clinical process slows or stops entirely. In my practice, I have seen this unfold in real time, often in otherwise routine encounters: a child who initially agrees to a blood draw, sitting close to a parent for reassurance but becomes overwhelmed as the procedure progresses and the sensory experience intensifies—the smell of alcohol, the feel of the tourniquet, the sight of needles and collection vials.

Their arm pulls back and stiffens. Their breathing quickens. And a calm moment shifts into distress, leaving the child and parent unsettled and the **phlebotomist** navigating a situation that has quickly become unpredictable. The procedure is paused, then abandoned. No specimen is collected. No result is generated, and the encounter is often documented simply as “unable to obtain” or “redraw.”

From a systems perspective, it disappears. From a care perspective, it delays answers and can erode trust in future visits. The test is not completed, the necessary data is not collected, and care decisions are delayed. In some cases, families leave without a clear next step or hesitate to return for follow-up care.

Despite how frequently these situations occur, most healthcare systems do not capture them in a meaningful way.

Where Existing Quality Frameworks Fall Short

Modern laboratory medicine has made significant progress in standardizing and improving what happens after a specimen is collected.

Organizations such as the College of American Pathologists and the Clinical and Laboratory Standards Institute have established widely adopted **pre-analytic quality indicators**, including hemolysis rates, labeling accuracy, specimen integrity, and transport conditions.

These measures have strengthened laboratory performance and consistency. At the same time, they depend on a shared assumption that a specimen is successfully obtained.

In pediatric care, this assumption creates a gap. When clinicians attempt a blood draw but do not complete it, the event often goes unrecorded. No specimen enters the system, so no quality metric is triggered. From a data perspective, the encounter does not exist, even though it directly affects patient care.

The Missing Metric: Access

If a child cannot tolerate the conditions required for a blood draw, the diagnostic process fails before it begins.

This outcome reflects a limitation in care delivery rather than a limitation in laboratory science. I refer to this as “access before analysis,” a pre-analytic consideration that ensures specimen feasibility is established before performance is evaluated.

Healthcare systems must first ensure that patients can successfully provide a specimen before they evaluate its quality.

Achieving this requires attention to factors that traditional laboratory frameworks do not fully address, including the sensory environment, the way clinicians prepare patients and families, the communication strategies used during the procedure, and the flexibility of collection methods.



Beyond Maintenance

Service That Supports Care

LEARN MORE



Product Launches

Without addressing these elements, even the most advanced diagnostic capabilities remain underutilized.

Innovation Is Expanding What Is Possible

Healthcare leaders have begun to recognize the need to improve how specimens are collected. Advances in **microsampling** and **patient-centric blood collection technologies** have expanded the range of options available to clinicians. These approaches enable less invasive collection and allow patients to provide samples in more comfortable settings, including at home.

Microsampling and patient-centric collection methods typically rely on small-volume, **capillary blood samples** rather than traditional venous draws. Many of these approaches are designed to be low- or no-pain, avoid the need for a needle in a vein, and eliminate visible sharps, which can be a major source of anxiety for children. In some cases, samples can be collected quickly and in non-clinical settings, giving families more flexibility in how and where testing takes place.

At their core, patient-centric blood collection methods are designed to meet patients where they are, both physically and emotionally. Instead of requiring every patient to navigate a potentially stressful clinical environment, these approaches offer alternatives that better align with individual needs and preferences. For children and their families, this can mean reducing the sensory and psychological burden associated with traditional blood draws, while still enabling clinicians to obtain the information they need. The need for this flexibility is clear. [Research](#) shows that many patients face meaningful barriers to routine blood testing, with 69% reporting they are unwilling to travel more than 10 miles for a blood draw and 78% experiencing anxiety related to the procedure.

These challenges can be amplified in pediatric populations, where fear, discomfort, and unfamiliar environments can make successful collection even more difficult.

By reducing pain, simplifying the collection process, and allowing for greater flexibility in where and how samples are obtained, patient-centric technologies expand access to care. They give clinicians more options to successfully collect specimens and help ensure that necessary testing can move forward without adding unnecessary strain on patients and families.

Bridging the Gap Requires Preparation and Training

Technology alone cannot resolve the challenges associated with pediatric blood collection. Success depends on how clinicians and caregivers prepare children for the experience and how they respond in the moment.

Training plays an important role in improving outcomes. When healthcare professionals and parents understand how to reduce fear, communicate clearly, and create a more predictable experience, children are more likely to tolerate the procedure. Preparation strategies can include setting expectations in advance, using developmentally appropriate language, and [adjusting workflows to accommodate individual needs](#).

These approaches recognize that successful specimen collection depends on both technical capability and human interaction.

Making Access Visible

Healthcare systems cannot improve what they do not measure. In pediatric care, this includes encounters where specimen collection is attempted but not completed. This includes tracking unsuccessful collection attempts, repeat visits required to obtain a specimen, and the resources needed to complete a single draw.

Product Launches

Systems should also consider how often difficult experiences lead families to disengage from care.

These data points provide a more complete picture of quality because they capture whether patients can access the diagnostic process, not just **how well laboratories handle specimens** once they receive them.

A More Complete Definition of Quality

Laboratory medicine has long focused on ensuring that every specimen meets high standards of accuracy and reliability. The next step is to ensure that every patient has a fair opportunity to provide one.

For pediatric populations, this requires addressing both the clinical and experiential factors that influence whether specimen collection succeeds. Until healthcare systems incorporate access into their definition of quality, a portion of pediatric diagnostic care will remain out of reach.

The limitation does not stem from a lack of available tests, but from gaps in the process required to obtain them.

Because ultimately, no matter how advanced our diagnostics become, clinicians cannot analyze what they cannot access.

About the Author: Franchesca Kelly, PBT(ASCP), MLA, RBT, is a pediatric phlebotomy specialist and the founder of Access Before Analysis and Poke Pals. With over nine years of experience in pediatric blood collection, she focuses on improving pre-analytic access, patient experience, and workflow readiness in high-variability clinical environments.

Diazyme Laboratories Acquires Carolina Liquid Chemistries



The acquisition combines clinical chemistry systems with new diagnostic test technologies.

Diazyme Laboratories Inc has acquired the business of Carolina Liquid Chemistries, a manufacturer and reseller of chemistry systems and reagents.



Headquartered in Greensboro, North Carolina, Carolina Liquid Chemistries is a Food and Drug Administration (FDA) registered manufacturer.

The company's operations will be integrated into Diazyme, a medical device manufacturer based in Poway, California.

"Carolina Liquid Chemistries' cost-effective and reliable products will complement Diazyme's proprietary enzyme and immunoassay technologies, creating synergies that will benefit laboratories of all sizes," says Dr Chong Yuan, managing director of Diazyme Laboratories, in a release.

Product Launches

“This strategic acquisition positions us to enhance our diagnostic capabilities and deliver even more comprehensive solutions to reference and clinical laboratories and improve patient outcomes.”

Integrating Diagnostic Technologies

Diazyme uses proprietary enzyme and **immunoassay technologies** to develop diagnostic test reagents. These products are designed for use on **automated chemistry analyzers** and chemiluminescence instruments in user-friendly formats.

Chemistries' product line, which includes chemistry systems and reagents.

Diazyme is a cGMP and ISO 13485 certified manufacturer, and the integration of Carolina Liquid Chemistries is intended to support the company's ability to provide diagnostic solutions to reference and clinical laboratories.

ID 359107711 | Acquisition © LaTerase
| Dreamstime.com

PRESENTING THE 11TH
EDITION OF **MEDIA PLANNER**
— AVAILABLE NOW



For copies: support@microbiozindia.com

Subscribe now !!



microbiozhealth.com

support@microbiozindia.com



TECHNOCARE MEDISYSTEMS

TRUSTED COMPANY IN **MEDICAL INNOVATION** SINCE 2001

We proudly offer the lowest prices in India, guaranteed—without compromising on quality. Our mission is simple:

“TO PROVIDE QUALITY MATERIAL AND THE BEST SERVICE.”

For orders and inquiries, contact:

POOJA DHADUK

+91 95374 17749



Multipara Monitor



Multipara Monitor



SYRINGE INFUSION PUMP



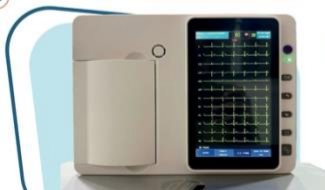
SYRINGE INFUSION PUMP



ECG MACHINE-TM-3E



ECG MACHINE-TM-1201



ECG MACHINE TM-302



ECG MACHINE TM-12E



FETAL MONITOR



PHOTOTHERAPY & BABY
WARMER & BABY WEIGHT
SCALE



VAIN FINDER



MONITOR STAND AND
TROLLEY



JAUNDICE METER



PULSE OXIMETER



PULSE OXIMETER



RESPIRATORY
PRODUCTS



BIPAP



FOGGER MACHINE
AND FUMIGATOR



DEFIBRILLATOR
AND AED



AED

- DVT PUMP
- FETAL DOPPLER
- 3CH, 12CH HOLTER RECORDER
- AMBULATORY BP MONITOR
- SPIROMETER
- video laryngoscopes
- PATIENT WARMER WITH BLANKETS AND TROLLEY
- BLOOD/FLUID WARMER
- VIDEO LARYNGOSCOPE
- VENTILATOR
- ORTHO DRILL
- OXYGEN CONCENTRATOR
- CAUTERY MACHINE

- DIGITAL TOURNIQUET
- EMERGENCY AMBULANCE TROLLEY
- COMPATIBLE SPO2 SENSOR
- FETAL MONITOR
- BIPAP
- HD/NON-HD VIDEO COLPOSCOPE
- INTENSIVE CARE SERVO WARMER
- DIGITAL BABY SCALE
- SUCTION MACHINE
- ETCO2 MONITOR
- FOGGER MACHINE
- FUMIGATOR
- STANDS AND TROLLEY

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

Email:technocare9@Gmail.Com



PRECISION DELIVERED

At AKAS Infusions, we believe that accuracy and reliability define exceptional patient care. Our wide range of infusion solutions is designed to meet diverse medical needs with seamless delivery and advanced technology.



Hello

Helps to prevent
Deep Vein Thrombosis

 **AKAS**[®]
INFUSIONS

WARMJET

Blood and Fluid
Warmer

Made in India. Made for the World.

AKAS Medical Equipment,
SP127, 1st Main road, Ambattur
Industrial Estate, Chennai 600058

+91-98403 79116
sales@akasinfusions.com
www.akasinfusions.com

CE
1023