

HYDERABAD
2023

ENSURING QUALITY
& ADDRESSING
CHALLENGES IN
THE SPECTRUM OF
LAB DIAGNOSIS

SOU VENIR



2nd Edition 2023 

CAHOLABCON



CAHO

COMMITTED TO SAFER HEALTHCARE

We are a not-for-profit body representing healthcare institutions, diagnostic centres and quality professionals with an overarching aim to promote patient safety through fire safety training for hospital staff, quality through communication skills for the healthcare professional and accreditation in the healthcare ecosystem.

CAHO believes that accreditation is the beginning of a quality journey. Its aim is to systematically infuse & spread the message of quality in healthcare at the grassroots level so as to develop a culture of safety in healthcare organizations. As an association of healthcare institutions, diagnostics centres and individuals CAHO pools its resources for achieving the common goals of promoting quality, patient safety and accreditation. CAHO is the engine to drive continuous quality improvement and to pursue the journey beyond accreditation in collaboration with all stakeholders.



2nd Edition 2023 🏆

CAHOLABCON

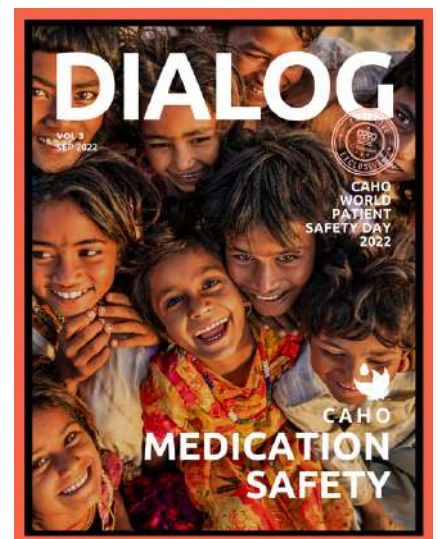
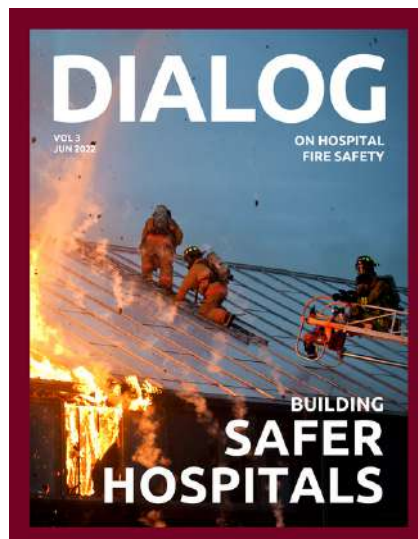
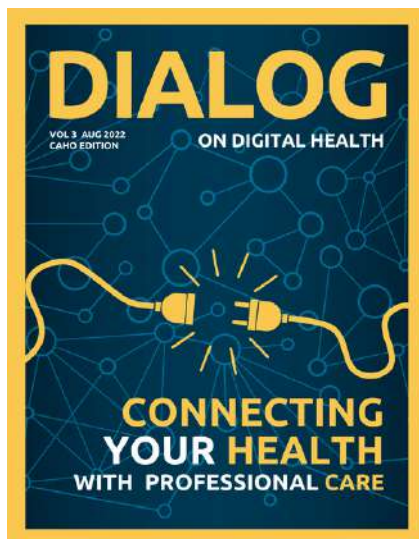
The CAHOLABCON 2023 was conducted around the theme - "Ensuring Quality & Addressing Challenges in the Spectrum of Lab Diagnosis" - chosen to emphasize the strategies to reduce TAT, while maintaining quality which is critical for the sustainability of laboratory management in the healthcare ecosystem.

CAHOLABCON is a platform for sharing knowledge, exchanging ideas, and exploring the latest advancements in these fields. In this second edition, we aimed to provide a diverse and engaging program that showcases the latest research, applications, and tools in computer science, artificial intelligence, and machine learning. We look forward to an enriching experience that has inspired, educated, and connected participants worldwide.



EXECUTIVE
DIALOG

WHERE
LEADERS COME
TO TALK.



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MESSAGES

From Key Healthcare Leaders



DR T DAYAL SINGH

*Advisory Committee,
CAHOLABCON 2023*

PRESIDENT
IMA Hyderabad City Branch

Hearty congratulations on the 2nd edition of CAHOLABCON being held in Hyderabad.

IMA HYDERABAD CITY BRANCH which is one of the largest branches in India with more than 6000 members is delighted to be associated with the conference. Lab plays a critical role in determining a diagnosis, planning treatment, checking to see if treatment is working, or monitoring the disease over time.

It is my earnest wish and hope the conference deliberations will bring out new ideas which will help in improving further the scope of investigating many conditions which are yet to be diagnosed.

I once again congratulate Dr Tapadia R and the whole team and wish them all the success.

LONG LIVE IMA!





DR B UMAKANTH GOUD

*Advisory Committee,
CAHOLABCON 2023*

Hon. Secretary
IMA Hyderabad, City Branch



It gives me immense pleasure to know that CAHOLABCON, the first of this kind of conference, is going to take place in Hyderabad on the 14th of April, 2023. This will be preceded by pre-conference workshops on the 13th of April.

The conference is going to address various issues like maternal markers, Lab benchmark analysis, the clinical perspective of autoimmune disease, protein electrophoresis and body fluid analysis by experts. I am sure this is going to be a great platform to acquire and exchange knowledge and will provide an exquisite experience to all laboratory professionals in understanding the aspects of patient care in lab services.

I wish CAHOLABCON great Success!





MR N VENKATESWARAN

*Advisory Committee,
CAHOLABCON 2023*
Chief Executive Officer
NABL

It gives me immense pleasure to know that CAHO- Consortium of Accredited Healthcare Organisations is organising its annual diagnostic conclave CAHOLABCON on 13th & 14th April 2023 at Hyderabad on the theme “Ensuring Quality and addressing Challenges in the Spectrum of Lab Diagnosis”.

I congratulate CAHO on organising such an event for accredited healthcare organisations with a focussed discussion on relevant health issues, benefitting the participants in knowledge enhancement and providing solutions while keeping quality and accreditation as pivotal points. I hope all attendees and speakers have an ideal opportunity to interact and share their ideas, views and experience and emerge with better solutions on all matters pertaining to quality and the overall patient healthcare system.

On behalf of NABL, I take this opportunity to compliment the CAHO and the organising team and wish CAHOLABCON a grand success.





DR GIRDHAR GYANI

Patron-CAHO

Director General, AHPI

As a patron of CAHO and the Director General of AHPI, I am delighted to hear about the upcoming 2nd Diagnostic Conclave, CAHOLABCON 2023, organized by CAHO's Diagnostic Division. It is wonderful to know that this year's conference is scheduled to be held on April 14th, 2023 in Hyderabad, with the theme of "Ensuring Quality & Addressing Challenges in the Spectrum of Lab Diagnosis".

It is even more exciting to know that this year's conference is the first in-person event that will enable laboratory medicine personnel to interact and network, learn from each other, and exchange valuable ideas.

During my tenure as Director at the Indian Institute of Quality Management Jaipur, I had the privilege of training the first 10 batches of laboratory professionals as assessors for NABL. I firmly believe that quality as a subject came first in practice in laboratories and then in hospitals through NABH in 2006. Even the quality coordinators for NABH used to be from laboratory backgrounds during the first 6-7 years of NABH.

Quality in laboratories plays a vital role in the overall process of healthcare. The recent upgrade of ISO 15189 into a new version provides an excellent opportunity for deliberation and for developing simple implementation guidelines, which can be accomplished at CAHOLABCON. I would like to wish the faculty, organizers, and delegates great learning and success during the event.





DR K SHANTHI NAIDU

Organizing Chairperson-CAHO

Consultant - Dept. of Laboratory Medicine
CARE Hospital Banjara Hills, Hyderabad

Dear All,

Greetings from CAHOLABCON!

On behalf of the Organizing Committee, I welcome one and all, members of CAHO, speakers and delegates to this academic feast.

This is the first time in Hyderabad that a laboratory-related programme of CAHO is being held and has raised a lot of excitement among all academicians and many faculties. The team has put in an appreciable and tremendous effort for this programme. A special mention to Dr Aparna Jairam, the energetic, committed, resourceful individual for bringing many together, no easy task !!

The sponsors have generously participated, without whose support an event such as this, would not be possible, grateful to them.

I am sure one-day CAHOLABCON will be a success with the participation of all.

With the event all success!





DR SIMI BHATIA

Co-organizing Chairperson-
CAHOLABCON 2023
Ex- Director Operations SRL
Diagnostics



Dear Esteemed Delegates,

It is my pleasure to welcome you to Hyderabad, the city of pearls and the erstwhile Nizami capital. Hyderabad, formerly known as Bhagnagar, which means "city of fortune," is steeped in history and culture, and I am sure you will enjoy your stay here.

On behalf of the organizing committee, I would like to invite you to attend "CAHOLABCON 2023," the 2nd Diagnostic Conclave of CAHO, which is being held on April 14, 2023, in Hyderabad. This conference is a platform for discussing strategies to reduce turnaround times while preserving quality, which is crucial for the long-term survival of laboratory management in the healthcare system.

The conference promises to be a great learning opportunity for all the delegates. With an excellent line-up of speakers and interactive sessions, you will be able to gain insights and knowledge from the best in the field.

We hope that your time here in Hyderabad will be both academically stimulating and enjoyable. Please do not hesitate to reach out to us if you require any assistance during your stay. We look forward to welcoming you to Hyderabad for CAHOLABCON 2023!





DR TAPADIA R

Organising Secretary-CAHO

Managing Director
Tapadia Diagnostic Centre Pvt Ltd

Dear Delegates and Guests,

As the Organizing Secretary of CAHOLABCON 2023, it gives me great pleasure and pride to welcome you all to Hyderabad on 14th March 2023. Our conference promises to be a fascinating and informative event, featuring talks covering a broad spectrum of laboratory medicine, along with poster presentations and quizzes.

I would like to take this opportunity to express my appreciation for the efforts of the entire CAHO team, our sponsors, and every individual who has contributed to making this conference a vibrant event. Without their support and hard work, this event would not have been possible.

I am confident that the deliberations of this conference will be of great value to everyone in the field of laboratory medicine. The talks and presentations have been carefully chosen to provide insights into the latest advancements, challenges, and opportunities in the field. The interactive sessions will provide an excellent opportunity for learning and networking with experts in the field.

Once again, I welcome you all to CAHOLABCON 2023, and I hope you will enjoy the conference and your stay in Hyderabad.





**DR M PRASANTHI
SRIKANTH**

Co-Organising Secretary-CAHO

Lab Director
Q Diagnostics, Hyderabad



It is an immense honour for us to organize CAHOLABCON 2023 for the first time in the Pearl City of India. The conference will witness a gathering of highly learned speakers and delegates from different parts of the country, sharing their invaluable experiences on the subject of "Ensuring Quality and addressing challenges in the spectrum of Laboratory Diagnosis." This will enrich the students and doctors with in-depth knowledge in the field of Laboratory Medicine.

The need for an integrated approach to finding solutions for day-to-day challenges in laboratory diagnosis is paramount.

This conference has brought together pathologists, microbiologists, biochemists, radiologists, and clinicians onto a single platform to share their experiences and provide insights on improving the quality of laboratory services by interacting with each other and also with clinicians. All the topics chosen for this meeting are novel and enriching, providing all the ammunition to develop quality further.

I would like to take this opportunity to thank all the delegates, faculty, organizing members, and sponsors for making this event a grand success. I hope that you all will continue to be a part of this journey of CAHOLABCON so that we all can help in improving the quality of patient care across the country.

I look forward to meeting you all in person and exchanging ideas and knowledge at CAHOLABCON 2023.





DR THUPPIL VENKATESH

Patron - CAHO

CEO, FQI
Professor Emeritus St John's
Medical College, bangalore

As the CEO of FQI and Professor Emeritus at St. John's Medical College and as a Patron of CAHO, I extend my warmest congratulations to the CAHO and CAHOLABCON organizing team on the occasion of the 2nd Diagnostic Conclave, CAHOLABCON 2023. I am thrilled to learn that this year's conference will be held in person, enabling people from laboratory medicine to interact and exchange ideas, making it a memorable event for all of us.

I highly appreciate the efforts of CAHO, an academic institution of par excellence, to conduct several CMEs on risk management and ensure the quality of laboratory services. The conference's significance cannot be overstated, and meetings like CAHOLABCON will undoubtedly guide the future of laboratory medicine.

I hope the faculty, organizers, and delegates have a great learning experience that will help improve patient care and make it more affordable in the days to come.

Once again, my heartiest congratulations to the CAHO and CAHOLABCON organizing team for their outstanding efforts in organizing this event.





DR ALEXANDER THOMAS

Founder President & Patron- CAHO
President, AHPI

As the Founder President & Patron of CAHO and President of AHPI, it brings me great joy to pen a message for the upcoming CAHOLABCON 2023 conference. The theme for this year's conference is "Quality & Addressing Challenges in the Spectrum of Lab Diagnosis." The conference will bring together experts from the healthcare industry to share their knowledge and insights on the latest developments in lab diagnosis.

I am confident that the pre-conference workshops and the conference on 14th April will provide an excellent platform for participants to learn and exchange ideas. As an organization committed to improving healthcare in India, we understand the importance of diagnostics to promote quality in healthcare, and we are glad to see that the conference will focus on this critical aspect.

On behalf of AHPI, I extend a warm welcome to all participants and wish them a fruitful learning experience. We look forward to hosting a successful event and hope that it will lead to positive changes in the healthcare industry.





DR M I SAHADULLA

Patron - CAHO

Group Chairman & Managing
Director, KIMS HEALTH

As a Group Chairman & Managing Director of KIMS HEALTH and Patron of CAHO, I would like to commend the significant advances made in diagnostics, especially in the field of molecular biology. The ability to use these advances to direct treatments in the right direction is a great input to modern medicine. In the context of diagnostics, protocols are critical, and it is vital to adhere to them in laboratory, radiology, and histopathology diagnostics.

I applaud CAHO's decision to organize separate programs for diagnostics, recognizing it as a positive step towards bringing significant changes in the practice of diagnostic medicine.

I extend my heartfelt congratulations to the proponents of this move and wish them all success in their endeavours.





DR VIJAY AGARWAL

President- CAHO

FROM THE PRESIDENT'S DESK

As President of the Consortium of Accredited Healthcare Organizations (CAHO), it is my pleasure to welcome you to our upcoming annual conference CAHOLABCON on April 14th at Hotel Abode Hyderabad. This year's conference, organized by our diagnostic division, promises to be a highly engaging and informative event, bringing together experts, leaders, and innovators in the healthcare industry.

The conference will provide a platform for sharing knowledge, discussing emerging trends, and exploring the latest advancements in diagnostics. It is an excellent opportunity for professionals from different streams of diagnostics to network, collaborate, and learn from each other. We are confident that the conference will provide invaluable insights and information to help you in your work and advance the field of healthcare as a whole.

At CAHO, we are committed to promoting excellence and quality in healthcare. Our annual conference is a testament to this commitment, and we are proud to host it once again this year. We encourage you to attend and be a part of this event, which will undoubtedly contribute to your professional development and enhance your knowledge of healthcare diagnostics.

We look forward to seeing you at the conference and to working together to advance the field of diagnostics in India.





DR SEEMA BHARGAVA

Chairperson - Diagnostic Div. CAHO

Senior Consultant & Chairperson
Department of Biochemistry
Sir Ganga Ram Hospital, New Delhi

As the Chairperson of the Diagnostic Division of CAHO, I am pleased to welcome you to our community and this prestigious event. Our division comprises experts from all diagnostic modalities, all of whom are highly invested in promoting quality standards in the medical diagnostic laboratory. Our goal is to encourage every diagnostic facility to conform to international standards of quality as per ISO 15189 and work towards accreditation.

To achieve this goal, we conduct online seminars twice a month to educate our members on the clauses of the international standards and how to implement them. We also provide assistance to laboratories that are still in the early stages of implementing quality standards.

Additionally, we encourage collaboration between clinical and diagnostic consultants to optimize patient care. Our monthly webinars focus on specific areas of testing or diseases where experts in both fields share the latest developments and discuss how they can be implemented to improve patient care.

We are committed to promoting adherence to international quality standards in medical diagnostics and creating a community of experts who can work together to enhance patient care. I hope you enjoy the deliberations and look forward to your feedback for improving future events. We welcome you to join us in this quality movement and contribute to the improvement of diagnostic services across the country.





DR APARNA JAIRAM

Secretary - Diagnostic Div. CAHO

Founder & Director
Asavlee -Dr Aparna's Path Lab



As the Secretary of CAHO Diagnostic Division, I extend a warm welcome to all the participants for the 2nd Diagnostic Conclave, 'CAHOLABCON 2023', which will be held on April 14th, 2023, at Hotel Abode by Shree Venkateshwara, Hyderabad. The event is being organized in association with the IMA Hyderabad City Branch. The theme of the conclave is "Ensuring Quality and Addressing Challenges in the Spectrum of Lab Diagnosis", emphasizing the importance of reducing TAT while maintaining quality in laboratory management for better patient care.

The event will host two pre-conference workshops on April 13th at Yashoda Hospitals, Secunderabad, and Star Hospitals, Hyderabad, to provide participants with a valuable learning experience. The conference on April 14th will feature distinguished speakers, panel discussions, quiz competitions, and an industry expo to showcase new devices and products and establish collaborations and networking opportunities.

I express my gratitude to the CAHO team for providing me with the opportunity to organize the event, the Hyderabad Organizing committee for their tireless efforts in planning the scientific sessions, and the Diagnostic Division members for their unwavering support.

I invite everyone to join hands to make a valuable contribution to the successful conduct of CAHOLABCON 2023 in the City of Pearls, Hyderabad.





All about CAHO & CAHOLABCON



CAHOLABCON is an annual CAHO conclave dedicated to promoting quality, patient safety, and capacity building in the diagnostic aspects of healthcare delivery. It brings together lab professionals from various fields, including laboratory medicine, pathology, microbiology, immunology, genetics, and radiology, to discuss recent trends, innovations, practical challenges, and solutions adopted in their respective fields.

The conclave is managed and curated by an organizing committee under the guidance of the Patrons and Governing Committee. Every year, a particular theme is chosen, and national and international speakers from industry, academia, and government come together to share best practices developed

and implemented in any part of the world.

The objective of CAHOLABCON is to provide a comprehensive view of national and international developments in medical diagnostics and their implementation. Doing so, enhances the culture of quality and safety and provides a great source of education and learning for all stakeholders involved in laboratory services.

Over the years, CAHOLABCON hopes to become a "must-attend" event for all stakeholders involved in laboratory services. It will continue to be a platform for sharing ground-breaking ideas and solutions and promoting the culture of quality and patient safety in diagnostic services.

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DR SIMI BHATIA

Co-organizing Chairperson



DR TAPADIA R

Organizing Secretary



DR PRASANTHI M

Co-organizing Secretary

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Consultant Biochemist, Star Hospital, Hyderabad



DR. ANILA MATHAN

Senior Consultant & HOD Hematology and Transfusion Medicine



DR. APARNA JAIRAM

Secretary, Diagnostic Division, CAHO



DR IYER R N

Senior Consultant Microbiology & Infectious Diseases, Global Hospitals,, Hyderabad



DR MILAP SHAH

Senior Consultant & HOD Department of Histopathology & Immunochemistry Yashoda Hospital Secunderabad



DR. R RAVIKUMAR

Vice Chairman, Diagnostic Division- CAHO



DR. SEEMA BHARGAVA

Chairperson, Diagnostic Division- CAHO



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Founder President & Patron,
CAHO

ABOUT CAHO



The Consortium of Accredited Healthcare Organizations (CAHO) is a non-profit organization that was established in 2013 with the primary objective of promoting continuous quality improvement in accredited healthcare and diagnostic institutions in India. Initially focused on sharing best practices, creating benchmarks, and promoting accreditation, CAHO's scope has expanded significantly over the years to enhance patient safety, clinical outcomes, and overall satisfaction with healthcare services.

CAHO has three wings that reach out to healthcare institutions across India, including Healthcare institutions, Diagnostic centres, and Quality professionals.

The organization collaborates with institutions and industry to develop and conduct training programs, helping in capacity building, accreditation, and research. CAHO's focus on quality improvement is reflected in the large number of programs covering a range of topics such as infection control, patient safety, quality improvement, and leadership.

CAHO has designed over 40 training programs, including online, offline, and self-paced learning. These programs are well sought after across the country and neighbouring countries, with more than 20,000 professionals trained till date from all segments of the workforce, including

clinicians, nurses, technicians, lab professionals, quality professionals, engineers, and administrators. CAHO continually upskills these professionals through many vertical programs, webinars, and continuing quality and diagnostic education series.

CAHO has helped healthcare institutions in India achieve accreditation by training their internal workforce. The organization helps institutions develop a culture of safety, which is an essential aspect of providing safer care and reducing medical errors. In addition to capacity building and training, CAHO engages in research activities to promote the development and implementation of evidence-based practices in healthcare. The organization conducts research on topics such as healthcare quality, patient safety, and healthcare management, and disseminates its research findings among its members and the broader healthcare community to promote knowledge sharing and best practices.

CAHO conducts several annual events such as CAHOCON, CAHOTECH, CAHOLABCON, and CAHO-SACKON, which have become a "must-attend" activity for all stakeholders. The organization has also made its presence felt in many countries through ISQua-CAHO international webinars on the first

Tuesday of every month, with an average of 1,000 persons registering from 25 countries for these webinars. CAHO's International Advisory Committee is very active and has given the organization the platform to engage with experts and opinion leaders from various countries.

To increase communication with members, CAHO provides a weekly "Friday Update" and a monthly digital magazine "DIALOG."

In conclusion, CAHO is a non-profit organization that has made significant contributions to the improvement of healthcare services in India through its focus on quality improvement and patient safety. Its capacity-building programs, accreditation assistance, and research activities help healthcare and diagnostic institutions in India achieve accreditation and disseminate knowledge sharing and best practices among its members and the broader healthcare community.

CAHO's success is due to selfless contributions from members of the healthcare community and collaboration with industry, academic institutions, and other professional organizations. The organization invites everyone to join in making CAHO a unique model of knowledge sharing and capacity building.



DR LALLU JOSEPH

Secretary General - CAHO

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**MS. MEENAKSHI
ANCHALIA**



**MR. PRAKASH
SATI**



**MS. ANITHA
SUDHAKAR**



MS. PREETHA T



MS. REVATHI H



MS. RABEENA S



**MS. AROCKIA
JESINTHA**



**MS. J JENIFER
JEBARANI**

TRAINING PROGRAMS



CAHO

1	Certified Professional for Quality Implementation in Hospitals-Basic (CPQIH-Basic)
2	Certified Professional for Quality Implementation in Hospitals-Advance (CPQIH - Advance)
3	Certified Professional for Hospital Infection Control - Basic (CPHIC-Basic)
4	Certified Professional for Hospital Infection Control - Advance (CPHIC-Advance)
5	Certified Professional for Quality Implementation in Laboratories (CPQIL)
6	Training Program for NABL Entry Level (TPNEL)
7	Basic National Disaster Life Support (NDLS)
8	Certification Program on Emergency Department Quality Standards
9	Certification Program in Quality & Accreditation - For Students (CPQA)
10	Internal Auditor Training Program
11	Enhanced Clinical Communication Workshop.
12	Basic Nursing Communication Workshop
13	Fire Safety & Emergency Preparedness Training Program
14	Workshop on Occupational Health in Healthcare



15	Basic Course on Cyber Security
16	Certification & Training Program on Lean Management
17	Certified Professional in Healthcare Quality (NAHQ)-A Preparatory Course
18	Ethics & Clinical Research - Good Clinical Practices (GCP) Workshop
19	Workshop on Clinical Audit
20	Workshop on Quality Tools & Techniques
21	Workshop on 55
22	Certificate Course on Antimicrobial Stewardship – Basic
23	Certificate Course on Antimicrobial Stewardship – Advance
24	Certificate Course on NC Closure
25	Workshop on Nursing Quality Improvement
26	Migration from NABH 4th edition to 5th edition
27	Certified in Healthcare Risk Management (CHRM)
28	RT-PCR including CBNAAT & TrueNat for COVID Testing Laboratory

TRAINING PROGRAMS



CAHO

29	Certification for Problem Solving (PRO)
30	Infection Control Nurse (ICN) Course
31	International Certificate Program in Leadership (LEADS)
32	Awareness-Compliance-Excellence (ACE) for CSSD
33	Certificate Course on Patient Safety
34	Risk Management in Laboratory
35	Quality Indicators (QI) in Clinical Lab
36	Flexible Endoscope Reprocessing
37	Certificate Program in Healthcare Quality Management (CPHQM)
38	Certificate Course on Medication Management & Safety
39	Surface Cleaning & Disinfection in Healthcare Facilities
40	Certified Crash Course for Infection Control Professionals
41	Migration Program on Laboratory Quality Management System & Internal Auditor (ISO 15189:2012 to 2022)

FELLOWSHIP PROGRAM

South East Asia Joint Fellowship Program

CERTIFICATION PROGRAM

National Certification Program for Infection Control Professionals



CONTINUING DIAGNOSTIC EDUCATION (CDE) SERIES

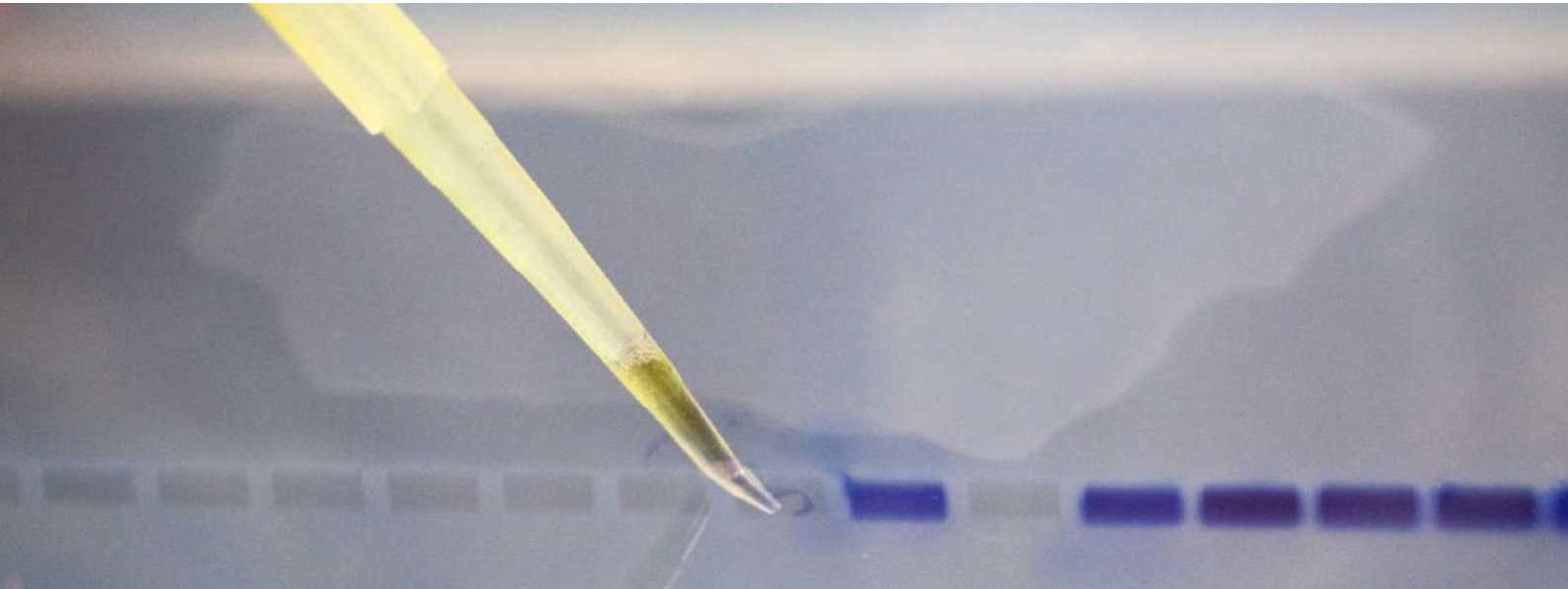
BY THE DIAGNOSTIC DIVISION OF CAHO

It is a 2-4 hour monthly conclave consisting of live virtual sessions on a particular theme by national and international experts discussing the most recent trends, innovations, practical challenges encountered and solutions adopted in the field of laboratory medicine, pathology, microbiology, immunology, genetics and radiology etc.

This gives an opportunity to laboratory professionals across the country to update their knowledge and implement best practices.

The following topics have been covered as a part of the series since 2021;

01	COVID-19 : Are you Immune?
02	Body Fluids & their Interpretation
03	Pregnancy and Screening
04	Risk Management in Laboratories (ISO 15189 : 2012)
05	Harmonizing ISO 15189 : 2012
06	Radiation Safety
07	Cervical Cytology & HPV
08	Epigenetics : A New Frontier Management
09	Breast Cancer - Diagnosis & Therapeutic Implications
10	Current Challenges & Latest Guidelines in Lipid Profile Testing



11	Clinicopathology
12	Pre Analytical Variables in the field of Diagnostics & Management - I
13	Pre Analytical Variables in the field of Diagnostics & Management - II
14	Pre-Examination Variables & Quality Indicators in Microbiology"
15	Cardiac Biomarkers
16	Approach to Anemia
17	A to Z of Pathology

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JOIN CAHO

forum, where you can share concerns related to accreditation bodies to improve overall effectiveness and efficacy.

Moreover, you will have the opportunity to mentor non-accredited organizations and healthcare professionals in your area of expertise. As a member, you will also enjoy discounted registration fees for training programs and events, as well as national or international partner events.

Join CAHO to be part of a collective effort to promote quality and improve patient safety by building a culture of safety in healthcare. As a member, you will have access to numerous benefits and opportunities.

Firstly, you will have access to networking opportunities where you can interact and learn from national and international experts. You can also host events to promote quality, patient safety, and accreditation.

As a member, you will also have privileged access to the members' area of the CAHO website, which includes a library of content and resources. You can also participate in the members'

You will receive regular updates on activities and events and can contribute as a resource person. You can also be part of expert committees and join or create a special interest group or committee. Additionally, your institution can get affiliated as Centers for Quality Promotion (CQP), and you can get nominated and recognized for awards.

Lastly, CAHO offers leadership opportunities where you can enhance your leadership abilities in the healthcare domain and be part of CAHO governance. You can take part in research activities in patient safety domains. By joining CAHO, you can contribute to promoting quality and improving patient safety in healthcare.

HEALTHCARE INSTITUTIONS

Small, Medium, and Large Hospitals and Medical Teaching Institutions with a validity of 3 years.

Regular Membership (Accredited/ Certified) :

- 1-100 bedded hospital (5000/-)
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- Large-sized Diagnostic Centres - 10000/
- Part of Regular Healthcare Institution Member - Complimentary

Associate Members (Non - Accredited)

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- Medium-sized/ Reference Diagnostic centres - 4000/
- Large-sized Diagnostic Centres - 9000/
- Part of Regular/ Associate Healthcare Institution Member - Complimentary

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- Regular: Rs 7500/- (Validity - Lifetime)
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International Hospitals, Healthcare organizations, Diagnostic Centres and Individuals of any discipline.

- Institutional: 300 USD (Validity - 3yrs)
- Individual: 150 USD (Validity - Lifetime)

Q&A

Interesting Answers
from
Interesting Leaders!



1. WHAT IS THE PROGRESS OF AI AND DIGITAL PATHOLOGY IN THE COMING YEARS?

Answer:

We expect that digital pathology will gain momentum across corporate and larger laboratory chains and hospitals in the coming years. Furthermore, digital pathology's advantages, especially around Point of Care and Immediate Testing, will become standard for clinicians and their customers due to significantly reduced turnaround times in testing and reporting cycles. Digital pathology will also become a differentiator for Quality Control, with the capacity to reduce outlier values reporting times and data entry human error.

Artificial Intelligence will play a significant role in pattern finding and cross-correlation, initially starting with cross-correlation and pattern finding across multiple tests, vital measurements, and previous baselines for specific customers. As the clinical community's confidence grows, we expect more lab chains to use AI as a strong driver for cost reduction and specialist clinician skills shortage, driving productivity, efficiency, accuracy and ultimately substituting clinician preliminary evaluations. Just like in digital radiology, as machine learning models improve, and we start getting dual agents or stronger neural network models, expect machines to become more accurate than fresher and average skilled pathologists in many testing areas, and cut testing and reporting cycle times by over 50%.

As devices provide higher definition pictures or subsurface "non-invasive" measures, we expect completely new non-invasive sampling and biopsy techniques that will provide more effective and newer lab services, taking digital pathology into more advanced frontiers of human health diagnostics and medicine. Finally, geographic and international borders will become redundant, with machines doing what governments could not - moving testing to the lowest cost (or highest value) frontiers and systems.

However, machines still have a long way to go to substitute human care or compassion, and we can expect to see joint human-machine teams within five years. We expect pathologists and clinicians to improve their skills in empathy, compassion, and customer touch, including their fellow clinicians, as machines become more prevalent in workplaces, homes, and bedrooms.



MR. SAMEER MEHTA

Vice President, CAHO

*Vice Chairman,
Dr. Mehta's Hospitals*



2. WHAT ARE THE KEY THINGS TO BE KEPT IN MIND WHILE DESIGNING A LABORATORY?



Answer:

While designing a medical diagnostic laboratory, it is important to consider several key factors. Questions such as whether the laboratory is stand-alone or attached to a hospital, the expected sample load, the required test menu, the available floor area, and the allocated budget must all be taken into account. There is no one-size-fits-all approach, and each laboratory must be designed to meet its specific requirements.

Whenever possible, automated platforms should be preferred over manual procedures. However, the level of automation must be balanced with the competence and efficiency of technical staff and consultants. Whether hospital-based or stand-alone, the organization of space should ensure the streamlined movement of samples, reagents, and equipment. This lean management approach minimizes the risk of exposure to staff and enables the rationalized use of sample tubes through the installation of a track system in the medium to large laboratories. Additionally, the laboratory should be well-ventilated with appropriate biosafety cabinets and laminar flow in the microbiology section.

The organization of waste product flow after segregation is critical and should adhere to BMW guidelines. Outsourced processes must also be verified to ensure compliance. It is also desirable for technical staff to possess a basic level of experience and expertise in handling equipment, with specific training provided after employment.

Lastly, the expertise, vision, and attitude of the Laboratory Director and Consultants, especially towards quality management, are the defining factors for the successful functioning of any laboratory.

DR. SEEMA BHARGAVA

Chairperson, Diagnostic Division- CAHO

Chairperson & Sr. Consultant Dept. of Biochemistry, Sir Ganga Ram Hospital



3. WHAT DO YOU THINK WILL BE THE IMPACT OF THE NEW ISO 2022 DOCUMENT?

Answer:

With the publication of ISO 15189:2022 for Medical Laboratories, ILAC has agreed to a three-year transition period from the existing standard ISO 15189:2012 worldwide. The impact of the new ISO 15189 will require all laboratories to align with this new standard version and seek accreditation to undergo the transition to ISO 15189:2022 version.

The laboratories will have to adapt to the main changes, including alignment with ISO/IEC 17025:2017 (resulting in the management requirements appearing at the end of the document), requirements for point-of-care testing (POCT) previously in ISO 22870 incorporated as a new inclusion in the standard's scope, and an increased emphasis on risk management and patient care (requiring the implementation of actions to address risks and opportunities for improvement).

To implement these changes, labs will have to conduct a gap analysis of their laboratory policies, processes, procedures, and management systems and develop an in-house action plan to revise quality documents to align with the new requirements, clauses, and subclauses. They will also need to train people on the newly revised quality documents, with an emphasis on risk assessment and patient care, EQA, customer feedback, process control, and equipment, among others.

After authorizing and adopting the documents with a clear effective date, all NABL-accredited labs will receive an assessment program with the option to undergo the transition to the ISO 15189:2022 version by the end of the transition period, up to December 31, 2025.



DR. REEMA BAHRI

*North Zone Chairperson, Diagnostic Division, CAHO
National Lead – Clinical Pathology & Quality
ART Fertility Clinics*



4. IS THE SUPPLY CHAIN OF YOUR MEDICAL LABORATORY THE TORTOISE OR THE HARE?



Answer:

As I read the Aesop fable of the hare and the tortoise to my 2.5-year-old daughter, it occurred to me that we can apply its lesson to our daily lives, particularly in the context of the different commodities involved in the supply chain system of the medical laboratory. Clinical laboratories play a critical role in managing patients in today's healthcare ecosystem, and a stock-out situation can be detrimental to their day-to-day operations and patient satisfaction. The problem of standardizing inventory is well-known to anyone familiar with laboratory management.

There are three broad categories of lab commodities: reagents, consumables, and durables. Reagents are chemical or biological agents with variable costs, stability, cold chain requirements, availability, and hazards. Consumables are items used only once while performing a test, such as a microscope cover slips, gloves, pipette tips, bleach, and alcohol. Durables are equipment used for testing that can be reused, such as glassware and instruments. The six rights of logistics- ensuring the RIGHT goods in the RIGHT quantities in the RIGHT condition delivered to the RIGHT place at the RIGHT time for the RIGHT cost- are crucial to efficient inventory management.

Standardizing inventory management has several advantages, including improved service provision to clients, a streamlined range of laboratory products, rational decision-making throughout the supply chain, agility in the supply chain to reduce stock imbalances, and affordability through economies of scale when procuring reagents and supplies.

Inventory management is one of the key pillars of laboratory management. Maintaining an optimum inventory level to prevent stock-out conditions and avoiding excess inventory is a challenging task that requires regular monitoring and quantification. Modern tools such as Google spreadsheets and SAP software can be used to list and manage inventory items effectively.

DR. ZUBAIR HASAN

Representative-Clinical Pathology, Diagnostic Division

Pathologist and Lab Head,
Healthians Diagnostic Labs



5. HOW WOULD THE LAB GO ABOUT IMPLEMENTING THE NEW GUIDELINES OF POCT AS MENTIONED IN THE ISO 15189:2022 DOCUMENT?

Answer:

The implementation of new guidelines for POCT in accordance with the ISO 15189:2022 document requires the laboratory to ensure conformity with the standard for a range of laboratory activities, including POCT and sample collection, performed at sites other than the main location. This requires the laboratory to specify and document its POCT activities, personnel involved, facilities and environmental conditions used for POCT, as well as the selection, procurement, reception, storage, acceptance testing, and inventory management of reagents and consumables used in POCT.

The laboratory must also establish proper communication and collaboration between the laboratory and other organizations that utilize POCT services, emphasizing the need for a coordinated approach to POCT management. This can be achieved through the use of multidisciplinary POCT committees to manage service agreements.

Personnel involved in examination processes, including POCT operators, must follow established procedures, and their identities must be recorded. Additionally, the laboratory must participate in external quality assessment programs appropriate to the examinations and interpretation of examination results, including POCT examination methods.

The laboratory must also evaluate its POCT activities and incorporate the evaluation into the management review process. Finally, the laboratory must adhere to the additional requirements for POCT Governance, Quality Assurance, and the Training Programme outlined in Annex A of the ISO 15189:2022 document



DR RIJU MATHEW

Representative-Clinical Biochemistry, Diagnostic Division

Assistant Director, Manager Quality & Laboratory, Believers Church Medical



6. WHAT ARE THE CHALLENGES IN THE IMPLEMENTATION OF THE ACCREDITATION STANDARDS IN MEDICAL LABORATORIES OF TIER 2 AND TIER 3 CITIES?



Answer:

The implementation of accreditation standards in medical laboratories in tier 2 and tier 3 cities poses several challenges:

- **Trained staff** - *The biggest challenge is the lack of proper colleges offering Diploma in Medical Laboratory Technology (DMLT) courses. As a result, staff with degrees from private institutes with questionable credibility are the only available option to work. They take a long time to grasp good laboratory practices, and attrition rates are high due to the shortage of staff compared to the demand.*
- **Lack of quality consciousness among clients/patients** - *The lab feels demotivated to bear the extra expenses of accreditation because clients/patients do not demand or appreciate accredited facilities.*
- **Non-accredited medical colleges** - *The postgraduates passing out of these colleges also lack an understanding of the logic of investing in quality because the colleges themselves are not accredited.*
- **Corporate labs** - *Most corporate labs do not apply for accreditation, which sets a precedent for local labs to follow suit.*
- **Cost of accreditation** - *The cost of accreditation is also a deterrent, as it can be significant and beyond the budget of many medical laboratories.*

Overall, implementing accreditation standards in medical laboratories in tier 2 and tier 3 cities requires overcoming these challenges and increasing awareness among clients/patients about the importance of accredited facilities

DR. VINEETA KOTHARI

Central Zone Chairperson, Diagnostic Division

*Director,
Centrapathlabs Pvt. Ltd*



7. WHAT ARE THE WAYS TO BUILD LAB EMPLOYEE MORALE?

Answer:

Building lab employee morale is crucial for improving productivity and reducing safety incidents, absenteeism, and turnover. Here are some ways to boost lab employee morale:

- **Recognize the importance of staff engagement** - Staff engagement has been proven to cut safety incidents by 64%, absenteeism by 81%, and turnover by 18%. It is crucial to keep lab staff engaged and motivated to contribute to solving challenges and improving productivity.
- **Focus on staff as humans** - In the face of budget crunches, delivery deadlines, and technical challenges, it's easy to lose sight of the human aspect of lab staff. Leaders must understand how their behaviour affects staff and invest time in building a trusting relationship that shows care for staff as individuals.
- **Communicate with empathy** - Clarity and transparency are key to dissolving confusion and creating a positive workplace culture. Leaders should listen to their staff, even if they are not expressing their concerns, communicate with empathy, and provide staff with challenges to encourage growth.
- **Appreciate and provide learning opportunities** - Recognition is a sure-shot way to boost employee morale. Leaders should show appreciation for their staff's work and provide learning opportunities to help them grow professionally.
- **Encourage laughter and work-life balance** - Making laughter a part of the workplace can reduce stress and boost staff morale. Leaders should also promote work-life balance, especially during crisis periods, by sending a personal touch and being present to support their staff.

Overall, building lab employee morale requires investing time in understanding and caring for staff as individuals, recognizing their contributions, and promoting a positive workplace culture that encourages growth and work-life balance.



DR SOURAV MAITI

Representative-Molecular Testing, Diagnostic Division

Consultant Microbiologist, Infection Control Officer, Ruby General Hospital



8. HOW DO WE BUILD EMPLOYEE MORALE IN A LABORATORY SETTING?



Answer:

Building employee morale is crucial in any work environment, including a laboratory setting. High morale can lead to increased productivity, job satisfaction, and better overall performance. Here are some ways to boost morale in a lab:

- **Recognize achievements:** Acknowledge and celebrate the accomplishments of lab employees to boost morale and create a positive work environment.
- **Provide opportunities for professional growth:** Offering opportunities for professional development and training can make employees feel valued and invested in their work.
- **Foster a sense of community:** Encourage team-building activities and foster a sense of community by organizing lab events and social activities. This will help us in identifying employees in need of mental health support.
- **Offer flexible work arrangements:** Providing flexible work arrangements, such as telecommuting or flextime, can help employees achieve a better work-life balance and increase job satisfaction.
- **Ensure fair compensation and benefits:** Competitive compensation packages and benefits can show employees that their work is valued and appreciated.
- **Develop " Buddy System":** To provide emotional support, especially for new joiners.
- **Develop a Culture of Empathy:** Make sure we are standing with the employees in their good and bad times.

DR. APARNA JAIRAM

Secretary, Diagnostic Division

Founder & Director,
Asavlee Dr. Aparna's Path Lab



9. HOW CAN CONSISTENT HIGH MORALE BE ACHIEVED?

Answer:

Maintaining high morale among lab employees is crucial for a productive and positive work environment. Here are some ways to build lab employee morale:

- **Encourage teamwork and collaboration** - Encourage employees to work together and build strong working relationships. Provide opportunities for team building and collaboration, such as team projects, group outings, or regular team meetings.
- **Create opportunities for professional development** - Providing opportunities for employees to learn new skills or take on new responsibilities can keep them motivated and engaged. Offer training programs, workshops, and other professional development opportunities to help them grow and advance in their careers.
- **Celebrate successes** - Celebrate team successes and individual achievements. Recognize and reward employees who have gone above and beyond, whether it's with a promotion, a bonus, or a simple celebration.
- **Provide a comfortable and safe work environment** - A comfortable and safe work environment is essential for maintaining employee morale. Ensure that the lab is well-maintained, properly ventilated, and equipped with the necessary tools and equipment to perform their work safely and efficiently.
- **Acknowledge and appreciate their hard work** - Recognition and appreciation for their hard work can make a huge impact on employee morale. Regularly acknowledge and appreciate their contributions, whether it's through a simple thank you, a shout-out during team meetings, or rewards and incentives.
- **Foster open communication** - Encourage open communication among employees and between employees and management. Provide opportunities for employees to voice their opinions, concerns, and ideas. This can help them feel heard, valued, and engaged in the lab's mission.

By following these tips, lab managers can create a positive work environment that encourages teamwork, professional growth, and open communication. This, in turn, can lead to improved employee morale, increased productivity, and a more successful lab overall.



DR SANTWANA VERNEKAR

Representative-Diagnostic Division

Founder & Chief Trainer,
QTEAM



10. ARE WE READY FOR ANOTHER PANDEMIC?



Answer:

India, being one of the most populous countries, dealt with mass casualties during the COVID pandemic in a unique and holistic way.

To prepare for future pandemics, we are now better prepared to handle nationwide mass casualties by envisaging 'One Nation, One Healthcare' through an integrated digital supply chain solution and upskilling manpower.

During a pandemic, we require an uninterrupted supply of resources. Looking at the industry requirements and saving the lives of millions, the Indian government, along with the healthcare and diagnostic industry, built capacities and acted promptly to ensure smooth production and supplies.

The supply chains in the IVD industry were the key area that witnessed major disruptions due to the nationwide lockdown. Therefore, the healthcare sector majorly reorganized its process engineering, digitized its supply chain infrastructure, and transformed operations and resource allocation. The digital transformation journey of the supply chain enabled us to leverage data-driven decisions and real-time monitoring. The majority of large corporate hospitals and labs actively adopted technology transformation, such as data analytics, technology-enabled variation analytical engine, AI-based predictive models, compliance management systems, codification of rates and masters, data standardization in decision-making, etc. They have effectively evolved their supply chains for breakthrough efficiency, better productivity, and optimized operations.

The strategies we have adopted for better preparedness are:

- Dependence and trust-building on local supplies to ensure smooth production and supply chains.
- Larger supply chain to provide more flexibility and capacity to cater to different scenarios.
- Quantifying risk measures and business continuity planning to ensure preparedness for any future pandemic
- *Capacity building to create a resilient healthcare system that can handle any future pandemics or emergencies.*
- Digital transformation for inventory management, which is the need of the hour, to leverage data-driven decisions and real-time monitoring.

Cont.

- *Upskilling across all specialities to finally impact clinical outcomes.*
- *Centralized command centre or system for the supply chain to ensure efficient coordination and utilization of resources.*
- *Resource pulling to ensure that the right resource is used for the right patient and purpose, optimizing resource utilization.*
- *Private-public partnerships should be cultivated and nurtured to create a more resilient healthcare system.*
- *Prioritizing agility to respond to any future pandemics or emergencies quickly.*
- *Building resilience in the supply chain by ensuring a continuous supply of resources and minimizing disruptions.*

By implementing these strategies, India is better prepared to handle any future pandemic and to ensure the smooth supply of resources during such emergencies.



DR. BARNALI DAS

West Zone Chairperson, Diagnostic Division

Lead Consultant, Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute



11. IS DIGITAL TRANSFORMATION OF THE CLINICAL LAB A MIRAGE?



Answer:

Digital transformation of the clinical lab is not a mirage but a reality that can bring significant benefits to the healthcare industry. It involves the adoption of technology to improve the efficiency and accuracy of diagnostic tools and processes. Automation, electronic medical records, and artificial intelligence are some of the technologies that can be integrated into clinical labs to achieve digital transformation.

However, implementing digital transformation requires a significant investment in infrastructure and staff training. There are also concerns about data privacy and security that need to be addressed. Despite these challenges, the benefits of digital transformation are undeniable. Quicker turnaround times for test results, increased accuracy in diagnosis, and improved patient outcomes are some of the advantages that digital transformation can bring to healthcare systems.

To achieve successful digital transformation, careful planning and execution are essential. Clinical labs need to identify the technologies that can improve their processes and invest in them accordingly. Staff training is critical to ensure that the new technologies are used effectively. Data privacy and security measures must also be put in place to protect patient's confidential information.

In conclusion, the digital transformation of the clinical lab is a reality that cannot be ignored. While it may seem like a daunting task, the benefits that digital transformation can bring to the healthcare industry are worth the investment. With careful planning and execution, clinical labs can achieve digital transformation and improve the quality of healthcare worldwide.

Dr. R. RAVI KUMAR

Vice Chairman, Diagnostic Division

*Chief Coordinator NABH,
Kidwai Memorial Institute of Oncology*



12. HOW SAFE ARE YOU IN YOUR LAB?

Answer:

Your safety in the lab depends on the level of preparedness and safety management in place. It is crucial for labs to conduct a risk analysis to identify potential hazards and ensure all lab safety protocols are documented in a lab safety manual. Continuous training and retraining of all lab staff in safety protocols are imperative. Lab safety protocols encompass several aspects, including:

- **Hygiene and behaviour:** Lab staff should follow specific guidelines for hygiene and behaviour to avoid accidents.
- **Use of chemical and hazardous materials:** Specific protocols should be in place for handling hazardous materials, including chemicals and biohazards.
- **Safety rules for processes, equipment, and materials:** Specific protocols should be followed for processes, equipment, and materials used in the lab.
- **Behaviour:** Access to laboratories should be controlled, and lab staff should follow appropriate grooming norms and wear PPE like aprons, gloves, masks, and eye goggles as required.
- **Fire safety:** It is essential to know emergency exit routes, fire drills, and the use of fire extinguishers.
- **Chemical hazardous materials:** All hazardous chemicals, including inflammable ones, should be stored safely in hazmat boxes with proper labels. Training on MSDS sheets should be provided to ensure proper management of chemical spills.
- **Biohazardous materials:** Training on biomedical waste management guidelines with appropriate segregation in colour-coded bins and wearing appropriate PPE can reduce biohazard safety risks.
- **Training** in hand washing, spill management, and needlestick injury can also reduce potential risks.

By implementing and following these safety protocols, labs can create a safe working environment for their staff and ensure their safety.



DR. ASHVINI SENGUPTA

Director Lab Services , Medica Super Speciality Hospital, Kolkata.
Founder Director, CQI



13. ARE THERE GAPS IN THE TRAINING IN PATHOLOGY INFORMATION IN OUR PRESENT CURRICULUM?



Answer:

Pathology informatics is an emerging field concerned with the application of data processing and communications technology in Pathology practice. This comprehends the development, deployment, management and evaluation of software and hardware supporting pathology and clinical practice. Pathologists recognize the critical need for informatics training and programs which involve information fundamentals. Information systems, workflow and processes, governance and maintenance. The variety of data sets used in anatomic/clinical and experimental pathology can be presented with potential informatics applications.

Despite the general interest, there is little unanimity on appropriate content or form for informatics training and minimal objective evaluation of existing programs.

Informatics for Pathology practice and Research has the following advantages:

- 1) List of courses on the official transcript*
- 2) Standard and rigour of course set by the university and educational accredited organizers. Nonetheless, tuition costs are a huge burden.*

With the heterogeneity of the backgrounds of Pathology participants, implementation of such programs will require strong institutional support. Awareness at the institutional level of the importance of such training and programs and communicating it to all members will have a positive impact on the success of these programs.

DR. PREETI BAJAJ

Representative, Diagnostic Division- CAHO

*Prof. & Head, Dept. of Pathology
Dr. VPMCH & RC, Nashik*



14. WHAT ARE YOUR THOUGHTS ON HUMAN RESOURCES IN THE LABORATORY?

Answer:

Medical laboratory professionals support the laboratory system by ensuring results are available in an accurate and timely manner for patient care. The question of adequate manpower in the laboratory is never-ending. There is a constant need for adequately qualified and competent staff. Staffing decisions are always challenging and guidelines on the appropriate manpower numbers required in each area are not always easy to decide due to the variability and scope of various disciplines such as routine Biochemistry or Hematology tests versus a Histopathology sample. For the laboratory to be productive, manpower along with other laboratory resources should be utilized effectively and efficiently. Productivity indices include but are not limited to the productivity of the workforce, resource utilization and revenue. One of the ways to achieve optimum productivity is to have a healthy and happy workforce.

Strategies to achieve the best work output:

- *Have adequate staff to cover the shifts to avoid burnout*
- *Increase or improve laboratory automation if economically feasible*
- *Implement auto validation to better utilize staff time.*
- *Providing adequate infrastructure*
- *Ensure Safety requirements for physical, chemical, biological hazards and ergonomic risk factors.*
- *Opportunities for growth and training*
- *Set targets which are challenging but reachable*
- *Staff engagement and appreciation activities*



DR. ANILA MATHAN

Representative, Diagnostic Division-CAHO

Senior Consultant & HOD
Hematology & Transfusion Medicine,
Apollo Speciality Hospital





IMA Hyderabad City Branch



National Accreditation Board for Testing and Calibration Laboratories

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NABL Accreditation ensures that

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NABL provides accreditation for Medical testing laboratories' in accordance with ISO 15189:2012 for the disciplines;

- Clinical Biochemistry
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- Microbiology & Infectious disease serology
- Histopathology
- Cytopathology
- Flow Cytometry
- Cytogenetics
- Molecular Testing
- Medical Imaging
- NABL also provides recognition for Medical (Entry Level) Testing Labs (NABL M(EL)T Labs) Program

Benefits of Accreditation

- International recognition
- Access to Global market
- Time and money efficient, Cost Reduction
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NABL is Mutual Recognition Arrangements (MRA) signatory to ILAC and APAC

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- **Key Panels** available on Optilite:
 - **Myeloma panel** – Freelite Kappa, Freelite Lambda, IgG, IgA, IgM, IgD, Beta 2 Microglobulin.
 - **CNS Panel** – Freelite Mx Kappa, Freelite Mx Lambda, Low Level IgG, IgA CSF, IgM CSF, Low Level Albumin.
 - **Immunoglobulin Subclasses** – IgG1, IgG2, IgG3, IgG4.
 - **Complement Pathway** – C3, C4, CH50, C1 Inactivator.

Specialized IVD-R compliant ELISA kits crafted for the Specialty diagnostics purpose for the following fields:

- **Endocrinology** – 17 OHP, 5 α DHT, DHEA, Free Testosterone, Androstenedione, Cortisol Saliva, Steroid Panel LC-MS etc.
- **Neurotransmitters / Catecholamines** – CatCombi, MetCombi ELISA (Plasma), Adrenalin (Epinephrine), Metanephrine, Dopamine, 5-HIAA, Histamine, Noradrenalin Normetanephrine, TriCat ELISA.
- **Tumor markers** - Erythropoietin, Melatonin, Melatonin-Sulfate Urine.
- **Special Parameters/Reagents** - CRP High Sensitive, HMGB1, Spermatozoa-Ab, Chromogranin A, MuSK-Ab.
- **Infectious Disease Serology** – Borrelia.



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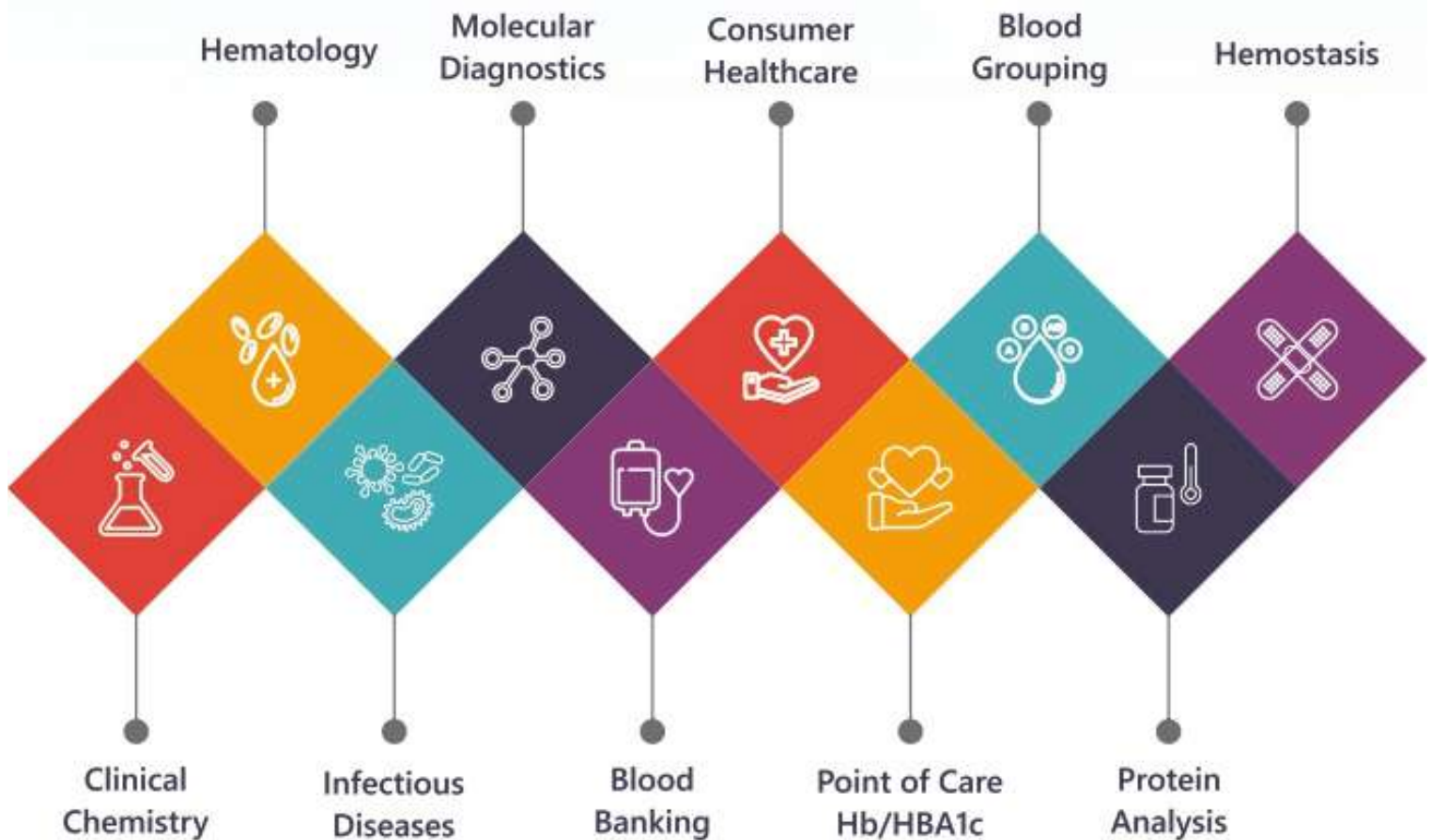
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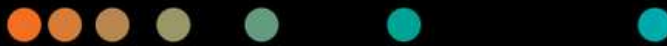
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1. Wen D, et al. Establishment and application of an autoverification system for chemistry and immunoassay tests. 69th AACC Annual Scientific Meeting Abstracts. 2017.

2. Columbus Regional Health leverages informatics and automation efficiency. Siemens Healthcare Diagnostics Inc. 30-19-13821-01-76. 2019 May.

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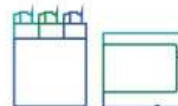
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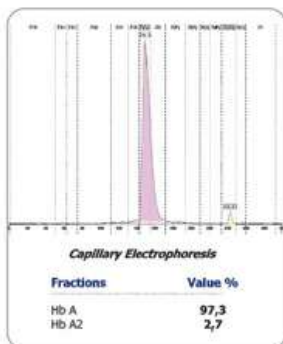
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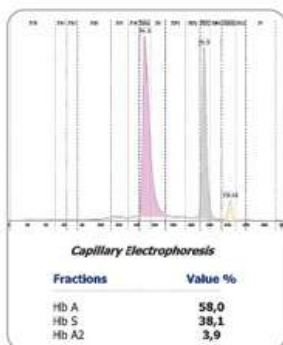
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CAPILLARYS instruments allow high resolution separation of the major hemoglobin variants (Hb S, Hb C, Hb D and Hb E) and accurate quantification of the Hb A2 and Hb F in presence of variants.



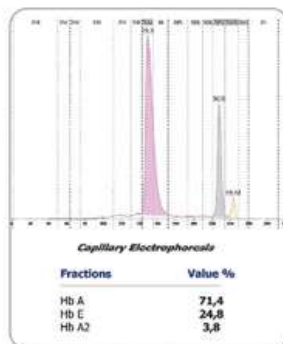
Normal Profile



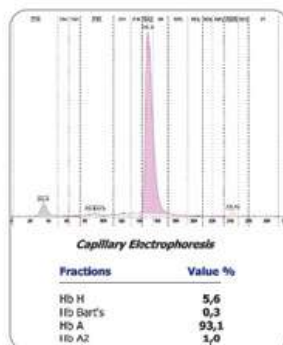
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Enhanced Detection

Capillary zone electrophoresis allows clean separation of Hb E from Hb A2 and facilitates easier detection & Quantification of Hb Bart's and Hb H.



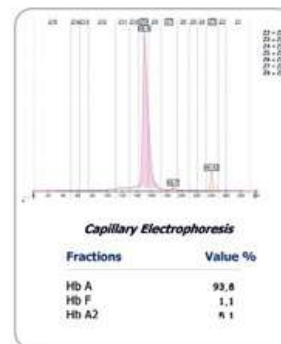
Hb E



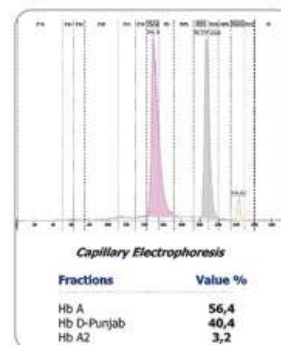
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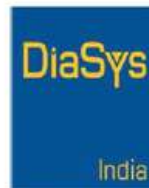
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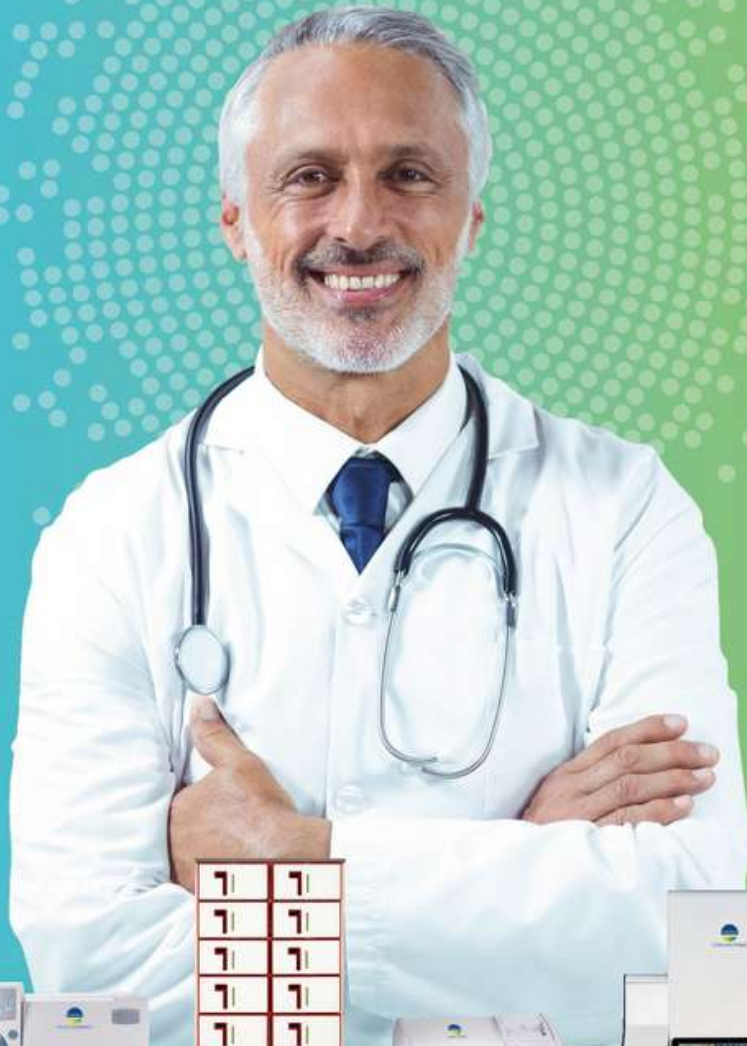
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			Number of Tests	Catalog Number
Respiratory	Xpert® Xpress CoV-2/Flu/RSV plus	Rapid detection and differentiation of SARS-CoV-2, Flu A, Flu B, and RSV, with the addition of a 3rd gene target for SARS-CoV-2, in approximately 36 minutes	10	XP3COV2/FLU/RSV-10
	Xpert® Xpress SARS-CoV-2/Flu/RSV	Rapid detection and differentiation of SARS-CoV-2, Flu A, Flu B, and RSV in approximately 36 minutes	10	XPCOV2/FLU/RSV-10
	Xpert Xpress SARS-CoV-2	Rapid detection of SARS-CoV-2 in as soon as 30 minutes*	10	XPRSARS-COV2-10
	Xpert Xpress Strep A	Rapid detection of Group A Streptococcus DNA in as soon as 18 minutes*	10	XPRSTREPA-CE-10
	Xpert Xpress Flu/RSV	Rapid detection and differentiation of Flu A, Flu B, and RSV in as soon as 20 minutes*	10	XPRSFLU/RSV-CE-10
Healthcare-Associated Infections & Other Infectious Diseases	Xpert MRSA NxG	Active MRSA surveillance testing in around 45 minutes*	10 120	GXM RSA-NXG-CE-10 GXM RSA-NXG-CE-120
	Xpert SA Nasal Complete	Pre-surgical testing of <i>S. aureus</i> and MRSA in about an hour	10 120	GXSACOMP-CE-10 GXSACOMP-120
	Xpert MRSA/SA BC	Detection of MRSA and <i>S. aureus</i> in positive blood cultures in about an hour	10	GXM RSA/SABC-CE-10
	Xpert MRSA/SA SSTI	Detection of MRSA and <i>S. aureus</i> skin and soft tissue infections in about an hour	10	GXM RSA/SA-SSTI-CE
	Xpert Carba-R	Detection and differentiation of KPC, NDM, VIM, IMP, and OXA-48 in 50 minutes	10 120	GXCARBAP-CE-10 GXCARBAP-CE-120
	Xpert Norovirus	Identification and differentiation of Norovirus GI and GII in less than 1 hour*	10	GXNOV-CE-10
	Xpert EV	Detection of enteroviruses in CSF in 2.5 hours	10	GXEVI-100N-10
	Xpert <i>C. difficile</i> BT	Detection of <i>Clostridioides difficile</i> infection with an independent call-out of binary toxin and differentiation of the O27 strain in around 45 minutes	10	GXCDIFFBT-CE-10
Xpert vanA/vanB	Rapid VRE screening for active outbreak prevention and control in around 45 minutes	10	GXVANAB-CE-10	
TB & Emerging Infectious Diseases	Xpert MTB/RIF	Detection of <i>Mycobacterium tuberculosis</i> complex and Rifampin-resistance associated mutations in less than two hours	10 50	GXMTB/RIF-10 GXMTB/RIF-50
	Xpert MTB/RIF Ultra	Detection of <i>Mycobacterium tuberculosis</i> complex and Rifampin-resistance associated mutations in less than 80 minutes	10 50	GXMTB/RIF-ULTRA-10 GXMTB/RIF-ULTRA-50
	Xpert MTB/XDR	Detection of <i>Mycobacterium tuberculosis</i> complex and mutations associated with drug resistance towards Isoniazid, Fluoroquinolones, Second-Line Injectable Drugs and Ethionamide in less than 90 minutes, leveraging 10-color GeneXpert technology	10	GXMTB/XDR-10
	Xpert Ebola	Detection of Ebola Zaire virus in around 90 minutes	10 50	GXEBOLEA-CE-10 GXEBOLEA-CE-50
Blood Virology, Women's Health, & Sexual Health	Xpert CT/NG	Detection of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> infections in about 90 minutes	10 120	GXCT/NGX-CE-10 GXCT/NGX-CE-120
	Xpert HPV	Detection of high risk Human Papillomavirus (HPV) — Identifies types HPV 16 and HPV 18/45; reports 11 other high risk types in pooled results in less than one hour	10	GXHPV-CE-10
	Xpert GBS	Intrapartum detection for Group B Streptococcus (GBS) during labor/delivery in less than one hour	10	GXGBS-100N-10
	Xpert TV	Detection of <i>Trichomonas vaginalis</i> in male and female specimens in around one hour*	10	GXTV-CE-10
	Resistance Plus® MG FlexiBle®	Detection of <i>M. genitalium</i> and macrolide resistance in around two hours	10	S2A-2000410
	Xpert HBV Viral Load	Detection and quantitation of Hepatitis B virus (HBV) in less than one hour	10	GXHBV-VL-CE-10
	Xpert HCV Viral Load	Detection and quantitation of Hepatitis C virus (HCV) in 105 minutes	10	GXHCV-VL-CE-10
	Xpert HCV VL Fingerstick	Detection and quantitation of Hepatitis C virus (HCV) in about an hour	10	GXHCV-FS-CE-10
	Xpert HIV-1 Qual	Detection of Human Immunodeficiency Virus Type 1 (HIV-1) in around 90 minutes	10	GXHIV-QA-CE-10
	Xpert HIV-1 Viral Load	Detection and quantification of Human Immunodeficiency Virus type 1 (HIV-1) in around 90 minutes	10	GXHIV-VL-CE-10
Oncology & Human Genetics	Xpert Bladder Cancer Detection	Detection of the presence of bladder cancer in patients with hematuria in around 90 minutes	10	GXBLAD-CD-CE-10
	Xpert Bladder Cancer Monitor	Qualitative monitoring for recurrence in patients previously diagnosed with bladder cancer in around 90 minutes	10	GXBLAD-CM-CE-10
	Xpert Breast Cancer STRAT4	Semi-quantitative measurement of ESR1, PGR, ERBB2, and MKi67 from FFPE invasive breast cancer tissue in 70 minutes	10	GXBCSTRAT4-CE-10
	Xpert BCR-ABL Ultra	Standardized measurement of BCR-ABL p210 transcript levels for individuals with Chronic Myeloid Leukemia (CML) in under 2 hours	10	GXBCRABL-10
	Xpert FII & FV	Identification of genetic risk factors for thrombosis in around 30 minutes	10	GXFIFV-10

* With Early Assay Termination (EAT) for positive results

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Sukraa Software Solution Private Limited, an India based healthcare software development and scientific enterprise with the expertise of more than 20 years in providing the right, simplified technology solutions for the need of the hour. The services have grown rapidly and today we are spread across the globe providing solutions for Hospitals, Clinics, Laboratory & Diagnostics, Blood Bank etc.

Vision & Mission

Digital transformation of IIS (laboratory information system) to LIS (L@boratory Intelligence Suite) empowered by 'Auto Verification & Artificial Intelligence' (AV-AI) to overcome the Himalayan laboratory challenges including Resolve Resource-Demand Challenges

Strike balance between laboratory workload (Demand) and available man-power (Resource)

Ascertain Speed-Accuracy Balance

Strike a chord between committed TAT (Speed) without compromising quality (Accuracy).

Sukraa's automated Laboratory Process Orchestration

SAILRT (Sukraa's Artificial Intelligence for Laboratories – Real Time) is a "First of its kind" indigenously developed Auto verification software built on AI platform in India (Make AI in India) that aids in automating your Laboratory Information Management System thereby improving your laboratory's "Efficiency & Productivity". SAILRT is a cloud based "Round the clock 24/7" modular solution; compatible with multi-technology, multi-site, multi-discipline and multi-supplier solutions.

SAILRT has an "In-built AI powered multi-Rule auto verification Engine" which systematically and automatically applies cross validated rules to perform QC bracketing, auto-verification, auto-reflex testing, auto-calculation of results & auto result processing. Our technology is a blend of "Auto Verification & Artificial Intelligence" (AV-AI concept); built on cross disciplinary and clinical disease specific algorithms in compliance with NABL 112: 2019 and designed as per CLSI Auto 15 guidelines.



Get in Touch

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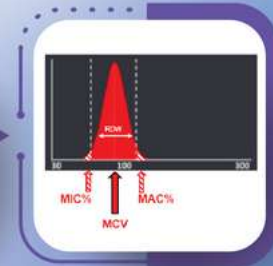
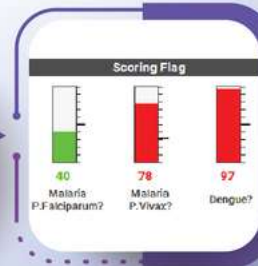
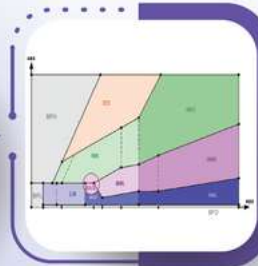
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CBC		DIF	
WBC	NEU%	NEU#	
RBC	LYM%	LYM#	
HGB	MON%	MON#	
HCT	EOS%	EOS#	
MCV	BAS%	BAS#	
MCH			
MCHC	IMG%	IMG#	
RDW-CV	IMM%	IMM#	
RDW-SD	IML%	IML#	
MIC	ALY%	ALY#	
MAC	LJC%	LJC#	
PLT			
MPV			
PCT			
PDW			
P-LCC			
P-LCR			



37 Parameters

60 tests/hour
throughput

Extended Diff Matrix
(IMM, IML, IMG & ALY)

Dengue and Malaria
(*Plasmodium vivax* & *P. falciparum*)

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(MIC & MAC)

HORIBA India Private Limited

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About us

Americares India Foundation (AIF), a leading health focused not-for-profit organization and Pfizer have partnered to develop a FREE, Online Platform for Education of Nurses on AMR in Regional languages (OPEN-AMR), that will offer certification programs on various aspects of Infection Prevention and Control and Antimicrobial Stewardship. In its first phase the platform will offer certificate programs in **English, Hindi, Malayalam, Telugu, Tamil, Kannada and Marathi.**

Key Features

- Zero Course Fees
- Easy registration process
- Courses available in 7 languages: English, Hindi, Malayalam, Kannada, Tamil, Telugu and Marathi
- Course curated by subject experts
- Easy to learn, audio-visual medium
- High flexibility of learning, learn at your pace
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- Simplified course content
- Excellent Knowledge enhancement opportunity
- Certificate for each completed course
- Certification from leading bodies

Key Topics

- Introduction to Infection Prevention & Control and Antimicrobial Stewardship
- Common Infection Prevention and Control Practices
- Basics of Antimicrobial Stewardship and Core Components
- Advanced Infection Prevention and Control Practices
- Healthcare - Associated Infections and their Control
- Antimicrobial Stewardship Principles and Action Planning



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