



The Global Digital Health Summit, Expo & Innovation Awards 2023

Showcasing Digital Health Solutions

Summit Outcomes Report



Jio World Convention Centre,
Mumbai, MH, India



1st & 2nd September 2023

Supporting Organizations

You have engaged with the global leaders and gained insights into the future of healthcare, empowering you to be future ready. Meet the partners who made this possible:



“The Global Digital Health Summit is a neutral, multi-stakeholder convening platform that brings together all stakeholders of the health system to inspire leadership, share knowledge, foster collaborative networks and drive ‘Communities Of Practice’ for Digital Health”

**-Dr. Rajendra Pratap Gupta
Chair, Global Digital Health Summit**



UNIQUE HIGHLIGHTS OF GDHS'2023

Patients as Partners in Digital Health:

This summit focused on the importance of involving patients and caregivers in designing and implementing Digital Health solutions. Recognizing their insights and experiences is crucial to improving healthcare regarding cost, access, communication, and care quality.

Chronic Disease Management in the Digital Age:

Chronic disease management has been revolutionized by technology. This summit covered how digital tools can help patients with chronic conditions better manage their health.

Developments in Specialty Care in the Digital Age:

Technology advancements have allowed for more specialized and effective treatments in various medical fields, such as telemedicine for specialized consultations and remote surgery techniques.

Taking Hospital Care Beyond Beds with Technology:

Hospitals are exploring how technology can extend care beyond traditional inpatient settings. This includes telehealth services, remote monitoring, and health information systems.

Leveraging Technology in Medical Practice:

Doctors are increasingly using technology to enhance their practice. Electronic health records, telemedicine, and diagnostic tools are examples of how technology benefits medical professionals.

Transformation of Small Hospitals into SMART Hospitals:

Smaller healthcare facilities can benefit from incorporating smart technology for better patient care, efficient resource management, and streamlined operations. This may involve IoT devices, AI-based systems, and data analytics.

Leveraging Technology in the Medical Devices Industry:

The medical devices industry is embracing technology for intelligent hardware solutions. Smart devices, sensors, and data connectivity are changing the landscape of medical equipment and diagnostics.

Emerging Technologies and Intelligent Medicine:

This topic explored how emerging technologies like artificial intelligence, machine learning, and data analytics are shaping the future of healthcare, from predictive diagnostics to personalized treatment plans.

Pharmaceutical Industry in the Digital Age:

The pharmaceutical industry is undergoing a digital transformation, with developments in drug discovery, clinical trials, and patient engagement through apps and wearable devices.

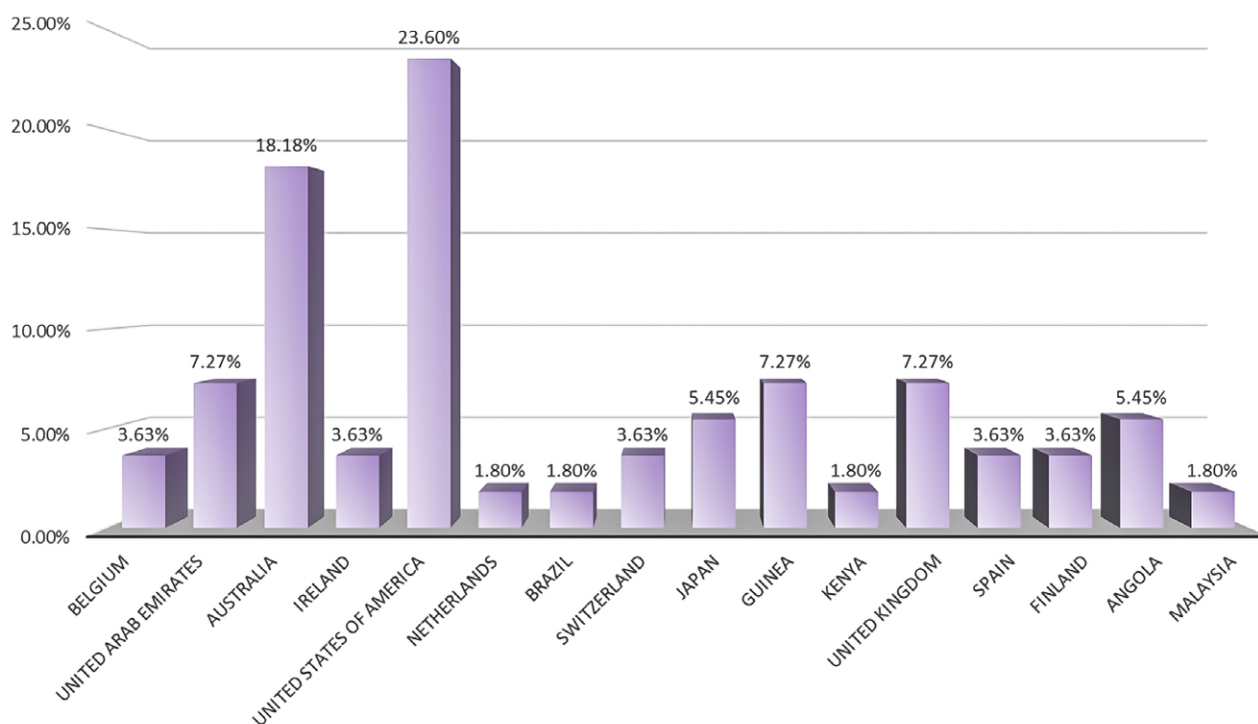
AI-Enabled Health Robots:

The use of AI-enabled health robots as panelists may indicate a glimpse into the future of healthcare. These robots can assist in surgeries and patient care, and even offer medical advice.

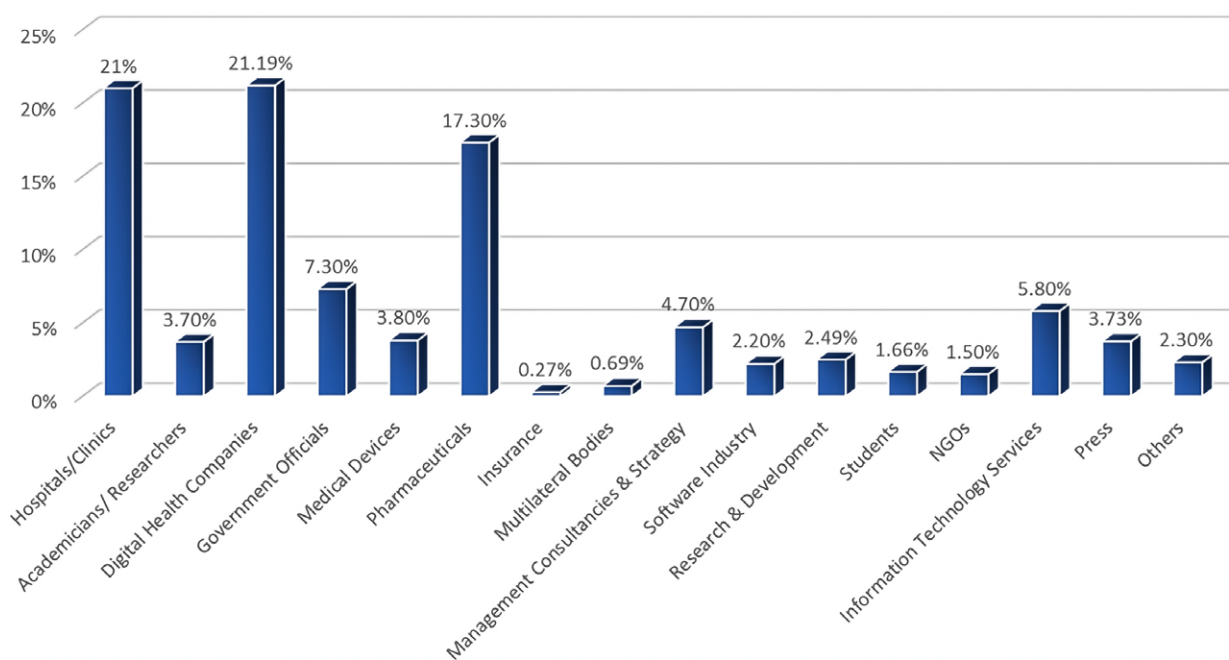
Summit Registration:

The fact that summit registrations exceeded the convention center's capacity indicates the growing interest and importance of the topics discussed. It highlights the need for continued collaboration between the healthcare and technology sectors to address these.

Other Country Participation



Industry Representation





Delegate Profile

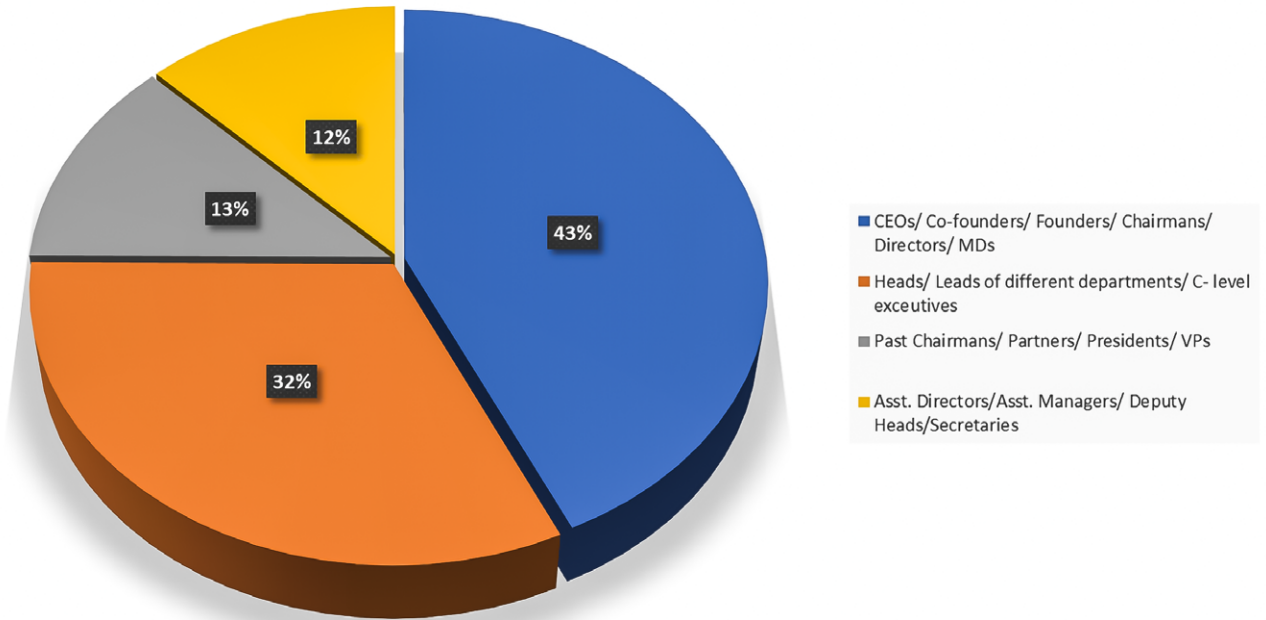


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Chairman's Message



Dear Friend,

Thanks for joining us at the Global Digital Health Summit 2023 (GDHS-23). This summit created a new benchmark for a Global Healthcare summit. Our focus was on Digital Health adoption amongst doctors, hospitals, and the pharmaceutical industry and every session and speaker was tasked to help you in your Digital Health journey. We have been very careful in our choice of topics and speakers, and so it meant a lot of preparation and even some hard decisions. We had to regret some speakers and sponsors, as they didn't fit into the theme of the summit. We are thankful for the overwhelming response. If you missed attending due to seats being full, we apologize for the same. We have tried our best to increase the seats and accommodate more, but we had to close registrations as we exceeded the capacity.

Your excellent feedback has exceeded our expectations as a delegate and an exhibitor-sponsor. This report captures the key points addressed by the global leaders, policy-makers, and government officials at the summit and we are sure that this report will capture and convey the essence of the discussions and help you in your journey of Digital Health.

We shall be opening the registration for the 2024 summit, but again this year, we are limiting the audience to senior industry leaders, government officials, and Digital Health implementors from across the globe. Our theme for 2024 is '*Digital Health at Scale – Success Stories, Privacy, Security & AMR (Artificial Intelligence, Machine Learning & Robotics)*'.

Reserve your seat before it's too late. In 2024, we would welcome companies that have a commercially available product to be an exhibitor in line with our theme. Please do not reach out to us for speaking slots. Speakers are by invitation only and our research team shall reach out to the exemplary leaders in Digital Health to have them share their work and how it can help you implement Digital Health in your practice and organization and improve clinical effectiveness.

I am happy to announce our co-chairs; Ms. Ann Mond Johnson, CEO, American Telemedicine Association and Mr. Nikhil Taneja, Vice- President & Managing Director, India & SAARC – Radware.

Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, Google will be the Emeritus Co-chair of the Summit.

As you have witnessed from our GDHS 2022 (Delhi) and GDHS 2023 (Mumbai) this summit is about Digital Health Implementation, and we are not a conference organization. Our summit is based on a compelling agenda with a focus on patients, technologies, and clinical effectiveness.

We will see you next year. Till then, read this summit outcomes report and write back to us. Wish you a Happy Holiday Season, Merry Christmas, and a Fabulous 2024.

Dr. Rajendra Pratap Gupta
Chair, Global Digital Health Summit

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Address by Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Consumer Affairs & Food & Public Distribution and Textiles, Government of India



The Hon'ble Minister Shri Piyush Goyal quoted Hon'ble PM's message at the G20 Health Minister's meet stating
"Let us open our innovations for public goods; let us avoid duplication of funding; let us facilitate equitable availability of technology"

Opening remarks by Co-Chairs, Mr. Sanjiv Navangul & Dr. Rajendra Pratap Gupta

8:45 am – 9.10 am



- » Mr. Sanjiv Navangul, Co-Chair of the Summit, emphasized that the modern-day patient is inclined to be a proactive consumer and is eager to engage in all aspects, including decisions made by clinicians and doctors.
- » He underlined that GDHS 2023 is genuinely a Global Summit, with India serving as a meeting ground for the exchange of ideas, knowledge, and best practices among healthcare professionals from around the world.
- » Dr. Rajendra Pratap Gupta, the Summit Co-Chair, set the tone for GDHS 2023 by highlighting the transformative potential of technology in healthcare. He opened with his renowned quote, *“If you are not in Digital Health, you are not in Healthcare,”* underlining the pivotal role of technology in modern healthcare.
- » Dr. Gupta drew a parallel with humanity’s remarkable achievement of landing an unmanned vehicle on the moon, suggesting that marrying technology with medicine could undoubtedly address the shortcomings in our healthcare system. He sounded a warning, predicting that firms failing to embrace digital advancements in healthcare by the end of this decade might face takeovers or obsolescence.
- » He emphasized that GDHS 2023 was not solely about technology but about finding the right model. He emphasized the uniqueness of the opportunity presented at the summit, offering a platform to interact with the world’s foremost Digital Health practitioners. Dr. Gupta urged all delegates to fully engage in the two-day sessions, facilitating the exchange of knowledge with both national and international leaders.
- » In conclusion, he stressed the collective role of everyone in the summit in driving the adoption of Digital Health. He reiterated the essential notion that technology itself does not bring about change; it is the people who effectively employ technology that transform the healthcare landscape. The GDHS 2023 was a testament to the fusion of healthcare and technology, paving the way for a promising future in the field.

“The Global Digital Health Summit is not about technology but about getting the model right.”

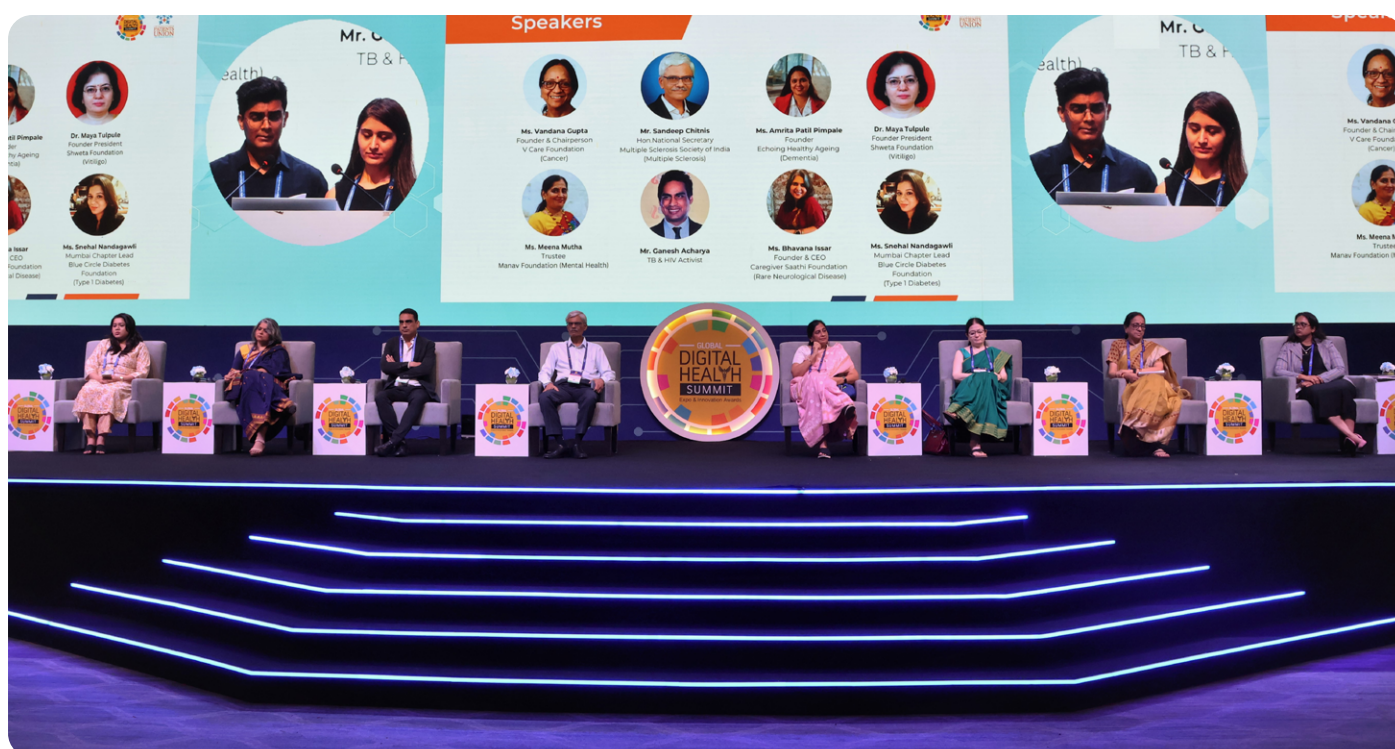
“Medical Science and technology will create healthcare and either of them, just sick care.”

*–Dr. Rajendra Pratap Gupta
Summit Chair*

Session 1: Patients as Partners in Digital Health - Expectations of Patients

9.10 am – 10.10 am

The session is curated by the International Patients' Union



The International Patients' Union (IPU), is The Change Initiative, which was ideated to bring patients on a tech-enabled platform that will help connect patients across the country to doctors, policymakers, regulators, industry leaders, and other fellow patients. IPU aims to give patients a platform to voice their opinions, contribute to policy formulation, and learn from each other how to better manage their disease conditions, aside from gaining authentic information on diseases, treatments, and providers.

International Patients' Union believe that Healthcare is at an inflection point and will transform over the next decade. The doctors, hospitals, med-tech, IT, and pharmaceutical industry are all organized, but the 'patients', whom we need to serve, are not! In the age of 'patient centricity,' we should hear their voice to plan and implement policies and programs aimed at positively impacting the patient in terms of accessibility, affordability, and acceptability & make healthcare 'patient-driven.'



Ms. Amrita Patil Pimpale,
Founder,
Echoing Healthy Ageing
(Dementia)



Mrs. Vandana Gupta,
Founder & Chairperson,
V Care Foundation
(Cancer)



Dr. Maya Tulpule,
Founder,
Shweta Association
(Vitiligo)



Ms. Meena Mutha,
Trustee,
Manav Foundation
(Mental Health)



Ms. Bhavana Issar,
Founder & CEO,
Caregiver Saathi
(Rare Neurological Disorders)



Mr. Sandeep Chitnis,
Hon. National Secretary,
Multiple Sclerosis
Society of India
(Multiple Sclerosis)



Mr. Ganesh Acharya,
TB & HIV Activist
(Tuberculosis & HIV)



Ms. Snehal Nandagawli,
Mumbai Chapter Lead,
Blue Circle Diabetes
Foundation
(Type 1 Diabetes)



Ms. Amrita Patil Pimpale, Founder, Echoing Healthy Ageing

» Ms. Amrita Patil Pimpale pointed out the significant impact of dementia on the elderly population, which is projected to reach 192 million by 2030.

» Furthermore, she emphasized that by 2050, every fifth person will be elderly, highlighting the pressing need for addressing dementia care.

» To tackle the impending “silver tsunami,”

Ms. Amrita discussed the importance of ensuring caregivers have access to quality services for the elderly, addressing the issue of unpaid care work, and promoting gender equality, as women are often burdened with caregiving responsibilities.

- » She proposed the use of evolving AI technologies, such as retinal scanning, to enable rapid self-diagnosis, making the process more accessible and less cumbersome.
- » Ms. Amrita also emphasized the importance of safety and remedial technologies, such as IoT-based devices for homes and appliances, to assist elderly individuals and ensure their well-being.
- » She discussed the potential role of robots in supporting caregivers by offering personalized assistance, such as diaper changing and emotional stimulation for the elderly.

Mrs. Vandana Gupta, Founder & Chairperson, V Care Foundation

» Mrs. Vandana Gupta, a cancer survivor herself, stressed that the expectations of patients include the need to be listened to and have timely and accurate instructions, as well as follow-up actions. Patients need to be treated with compassion by staff, and staff should also show empathy.

- » Patient engagement in research includes meaningful governance, priority setting, and outcome management.
- » Stating that the Patient engagement journey could be broken down into five stages: starting with having a clear vision, setting stated goals, defining timelines, outlining tactics, and measuring outcomes.
- » Good patient information ensures that patients are prepared and fully engaged in their treatment pathways, which enhances their recovery.
- » Data needs to be linked and connected, which can help improve treatment outcomes and clinical interventions.



- » Digital Health is a powerful tool for enhancing patient care, but it can also be used to abuse or exploit vulnerable segments of the population, hence the need for good governance principles to be integral to all these programs.



Dr. Maya Tulpule, Founder, Shweta Association

» Vitiligo has no direct cause or cure, which makes it all the more crucial to dispel misconceptions. Recalling that the World Health Organization (WHO) has also somewhat neglected this matter, with insufficient attention from governments, pharmaceutical companies, and others.

» In India, approximately 1-2% of the population suffers from Vitiligo, and it often becomes a family issue, affecting around 8% of

the population in some way. To combat the stigma and misinformation, Dr. Maya stressed the importance of leveraging digital media for educational purposes, targeting school and college-going students.

- » Vitiligo is non-contagious and not life-threatening, making it vital to raise awareness and promote early diagnosis among general practitioners and specialists. Initiatives like videos, web series, online resources, and crowdfunding support could play a pivotal role in spreading knowledge and providing aid.
- » Dr. Maya also highlighted the availability of new drugs, which could potentially expedite treatment, hence the imperative to reduce the waiting time for accessing this medicine in India for five years.
- » To tackle the serious social stigma and psychological stress experienced by Vitiligo patients, it is imperative that the latest treatments are made affordable and accessible, particularly in government facilities.

Ms. Meena Mutha, Trustee, Manav Foundation

- » Ms. Meena Mutha shared her journey in the field of mental health, which began with the premature birth of her twin babies in 1981. Her girl child needed special care due to unique needs. She highlighted the struggles of finding the right support for her daughter, emphasizing the challenges faced by parents of children with special needs.
- » Her journey led her to Masina Hospital and the formation of the Manav Foundation in 2004, marking 42 years of dedicated caregiving. She stressed the importance of caregivers not forgetting self-care in their mission to provide support and care for others. Meena also discussed the role of digital technology in this context. With the help of digital tools, they have been able to reach out to 35,000 patients, including offering psychiatric consultations.
- » Digital technologies could help by creating an online platform that provides training for both patients and caregivers, offering online learning modules, arranging support group meetings with the presence of facilitators, and providing one-on-one family counselling. She stressed the need for setting up accessible mental health support through a helpline.
- » One noteworthy aspect is the cloud-based data storage system, where all relevant information is stored for easy access by patients and their families. This allows for early intervention for conditions like Alzheimer's and dementia, providing support to those who may be lost or struggling.
- » Ms. Meena touched on the concept of advanced directives, allowing patients to provide instructions on their care when they are of sound mind. Additionally, she discussed the significance of panic attacks and sudden mood change alerts for timely interventions.



Ms. Bhavana Issar, Founder & CEO, Caregiver Saathi

- » She emphasized the pressing need to recognize and support these unsung heroes who navigate emotional ups and downs.
- » Ms. Bhavana elaborated on the multifaceted challenges faced by approximately 190 million individuals dealing with various conditions, such as aging, dementia, and Parkinson's, including the lack of recognition, unhelpful laws, and the mental health toll they bear. To address these

gaps, Ms. Bhavana advocated for the transformation of palliative care, extending it beyond the narrow scope of end-of-life care and underscoring the significance of implementing living wills.

- » Furthermore, she emphasized the potential of digital technologies, which could offer vital support to caregivers, enhance the overall quality of care, and facilitate community learning and financial planning.
- » In summary, Ms. Bhavana's insightful presentation called for the recognition and support of silent caregivers, reimagining palliative care, and harnessing digital technologies to improve the comprehensive care ecosystem for chronic diseases.

Mr. Sandeep Chitnis, Hon. National Secretary, Multiple Sclerosis Society of India

- » Extensive repositories of internal MS resources are invaluable to all stakeholders, including caregivers, enabling them to make informed decisions and initiate early interventions.
- » Accessible communication methods, such as speech-to-text and text-to-speech technologies, could enhance the effective dissemination of much-needed communication for MS patients, ultimately improving their quality of life.
- » Furthermore, digital technologies have the potential to offer targeted personalized treatments and gaming solutions to enhance the cognitive abilities and well-being of MS patients, as demonstrated by the successful implementation of these approaches by the MS Society of Israel.
- » The goal is to make these innovative treatments accessible to individuals in India. Virtual rehabilitation is another promising avenue that can assist MS patients on their journey, both in virtual and physical settings.
- » Additionally, digital platforms can streamline access to government schemes and resources for MS patients, ensuring they receive the support they need.





Mr. Ganesh Acharya, TB & HIV Activist

» He stressed the need to move beyond conventional data-driven approaches and consider more human-centric solutions. An essential element of this approach is the integration of Artificial Intelligence (AI) in the management of patient records, enabling self-screening, and the early detection of pre-emptive TB.

» Moreover, the speaker highlighted the potential of innovative technologies like cough

sound analysis, which could empower patients, improve treatment adherence, and address issues related to missed appointments.

- » The overarching message was clear: TB should not be overlooked, as solutions such as AI and patient involvement are available to revolutionize the TB care system, enabling the entire journey from screening, diagnosis, treatment, adherence and rejuvenating the care process while placing individuals at the heart of the solution.

Ms. Snehal Nandagawli, Mumbai Chapter Lead, Blue Circle Diabetes Foundation

- » Ms. Snehal Nandagawli discussed the challenges and needs of individuals living with Type 1 Diabetes (T1D) based on her 21-year journey with the condition, which has become a significant part of her identity.
- » She highlighted the following key points: People with T1D require multiple daily injections, often ranging from 4-5 times to as many as 7-8 times daily, using a glucometer. Various factors, including sleep, food, rest, and hormonal changes, significantly impact their condition. It's essential for doctors to consider these factors when managing their care.
- » Technological Support for Doctors and Caregivers: Recognizing the overburdened nature of healthcare professionals, the use of technologies to assist doctors and support patients on their T1D journey is vital.
- » Ensuring a good quality of life for people with T1D is of utmost importance, as the cost of care is primarily paid out of pocket. Expenses include insulin, blood tests, pathology labs/ tests, and doctor visits. Alarming, insulin has become one of the most expensive liquids globally. The introduction of new drugs and the implementation of price caps on insulin are necessary steps to improve access and affordability. T1D individuals can take control of their lives with the aid of digital technologies. The goal is to ensure that no one is left behind in the pursuit of better management and care for T1D.





Day 1



Download the Patients Union App
and become a part of the largest
patient community in the making!



Download on the
App Store



Get it on
Google Play

Fireside Chat and Interaction with Dr. Karen DeSalvo, Chief Health Officer, Google in conversation with Dr. Rajendra Pratap Gupta, Summit Chair

10.10 am – 10.30 am



The fireside chat between Dr. Karen DeSalvo, Chief Health Officer at Google, and Dr. Rajendra Pratap Gupta, Summit Chairman and Founder of Health Parliament, provides a comprehensive overview of Google's commitment to revolutionizing healthcare by integrating AI and digital technology.

- » **Google's Mission and Integration of Health Features:** Dr. Karen highlighted Google's mission to assist people in various aspects of their lives, extending to health-related guidance. The company aims to seamlessly integrate health features into a diverse range of products, including Search, YouTube, Fitbit, and cloud services.
- » **Collaboration and Ecosystem Building:** Google recognizes the importance of collaborating with partners to create an ecosystem beyond traditional healthcare providers, reaching caregivers and communities. This collaborative approach is particularly crucial in regions like India, where healthcare support needs to extend to diverse stakeholders.
- » **Response to the COVID-19 Pandemic:** The onset of the pandemic prompted Google to expand its support to address physical and mental well-being. The increased use of virtual visits during the pandemic demonstrated the potential to make healthcare more affordable, accessible, and telehealth-focused.



- » **Telehealth Governance in India:** In India, Google aims to systematically integrate telehealth as an omnichannel experience, leveraging a mobile-first approach. The goal is to empower individuals to take a more self-directed approach to their health, and initiatives like the Open Health Stack support the development of health apps.
- » **Digital-First Approach and AI-Enabled Searches:** As the world transitions to a digital-first approach, Dr. Karen highlighted Google's commitment to providing high-quality information on health through AI-enabled searches. This extends to incorporating biometric data and collaboration with partners to enhance the user experience.
- » **Digital Equity:** Google is actively addressing the issue of digital equity in healthcare. Dr. Karen emphasized the company's commitment to designing products, partnerships, and services with equity in mind. The focus is on deploying AI models with accountability, responsibility, privacy, and security to ensure technology benefits everyone & everywhere.
- » **Generative AI and Personalized Health Agents:** While acknowledging the excitement around Generative AI, Dr. Karen emphasized that it is still in an exploratory phase. The vision involves individuals having personalized health agents on their phones, promoting equity and positive outcomes while prioritizing safety, cybersecurity, regulatory compliance, and consumer protection.

Google envisions a future where Digital Health is inclusive, personalized, and accessible to all. The company's initiatives focus on empowering individuals, healthcare providers, and communities, and address digital equity challenges. The session provided insights into Google's mission-driven approach to innovation and its commitment to positively impacting the lives of 1.1 billion users.



"Over the next 10 years, healthcare will undergo a transformation driven by AI models. The remarkable speed at which these models are becoming more robust, consistent, & reliable in their memory is truly astounding. They will become attuned to the way care is delivered and accessed, empowering every stakeholder in the healthcare ecosystem to reshape it."

~ Dr. Karen DeSalvo

Launch of Neither Share nor Learn



At the 'Neither Share, nor Learn' Launch, Ms. Mevish P. Vaishnav, Group COO, Digital Health Associates Private Limited, informed that this unique initiative is to combat the infodemic and its ill effects resulting from circulating and propagating unratified information on digital media, which we all must participate in order to nip at the bud.

- » In today's digital age, information spreads fast and can influence our choices, and if the information available online is misleading, it can be harmful and even fatal. Health Parliament recognizes the urgency of addressing this issue.
- » We're proud to introduce the "Neither Share nor Learn" campaign – a worldwide movement aimed at combating the harmful effects of false information on our well-being.



Day 1

Session 2: Managing Chronic Patients in the Digital Age

11.00 am - 12.00 pm



“In the next two decades, as the planet’s population approaches 8 billion and as everyone becomes digitally connected, an inflection point will occur for the healthcare system and industry.”

~Mr. Nikhil Mathur



Mr. Nikhil Mathur,
Managing Director,
India & Head Data Partnership
& Innovation, APAC, GfK



Dr. George Margelis,
Independent Chair at
Aged Care Industry,
Information Technology
Council in Australia



Ms. Reena Sooch,
Partner & Global Head of Digital Strategy,
Day One Strategy



Mr. Sandeep Gulati,
General Manager –
India & South Asia,
ResMed India



Dr. Tarang Gianchandani,
Chief Executive Officer,
Sir. H.N. Reliance Foundation
Hospital and Research Centre

Mr. Nikhil Mathur, MD, India & Head Data Partnership & Innovation, APAC, GfK

- » Mr. Nikhil, as the session chair, explored the transformative journey of market developments over the past 25 years, keenly focusing on the profound influence of consumer behavior. He underscores the omnipresence of digital intervention in shaping new consumer expectations, extending this paradigm shift to the healthcare sector.
- » He mentioned the dynamic evolution of consumers, attributing it to the pervasive impact of digital interventions that are redefining expectations across various markets. He placed a significant emphasis on the role of data analytics and insights, particularly in the healthcare domain, specifically addressing issues related to chronic diseases.
- » Highlighting the impending rise of chronic diseases among two-thirds of the Indian population, Mr. Nikhil advocates for solutions at a population scale to effectively address these health challenges.
- » Last year, there was a significant uptake in the use of health and fitness apps, with a remarkable 321 million downloads globally, particularly among the tech-savvy younger demographic. In India alone, there were 71,000 downloads of health and fitness-related apps.
- » Smart devices for monitoring health metrics such as oxygen levels, ECG, and blood pressure are becoming increasingly common.



“Safety, connectivity, sustainability, and a simplified lifestyle are the crucial aspects influencing consumer choices in healthcare.”

~Mr. Nikhil Mathur



Dr. George Margelis, Independent Chair at Aged Care Industry, Information Technology Council

» There was a direct and strong correlation between ageing and chronic disease. For many diseases, including cancer, diabetes, hypothyroidism, gastrointestinal issues, and muscular and skeletal conditions, ageing remained the single largest risk factor.

» As policy makers prepared to tackle the rising healthcare burden of an ageing society, there was a need to integrate the National Health

Authority with the Department of Aged Care, as Australia had already done for obvious advantage.

- » There was an exponential rise in the consumption of healthcare services after the age of 50, and Digital Health offered an excellent medium to make quality care accessible in an economically feasible manner.
- » It was critical to drive the standardization process, which would enable a Digital Health program to scale.
- » With a projected shortage of 100,000 nurses over the next five years, Digital Health offered an immediate way to tackle issues around the optimization of rostering and ensuring care for the right person at the right time across clinical levels and distant locations.
- » The National Health System was one of the best things Australia had in place, enabling patient record/data exchange across the country, across providers, enabling the care of families and friends in such a way that people could be assured of quality care access anywhere. Australia used SNOMED, which ensured machine readability and the usage of common clinical terminologies.

“India has a clear advantage in adopting cutting-edge Digital Health solutions compared to Australia, which has struggled with legacy systems. There is an urgent need to execute swiftly and at scale in order to ‘catch up’ with the ever-growing voice of the patient community.”

~Dr. George Margelis

Ms. Reena Sooch, Partner & Global Head of Digital Strategy, Day One Strategy

- » Individuals living with chronic conditions such as Alzheimer's, Dementia, Cardiovascular diseases, Kidney diseases, Asthma, COPD, etc., continue to face daily struggles.
- » The care process they must navigate is far from linear, involving repetitive transactions for multiple tests, follow-ups, and more.
- » While smartphones empower individuals to access care and seek relevant information and support, there is a pressing need for authenticated and ratified information from reliable sources. The negative impact of information overload and misinformation (infodemic) is significant.
- » Despite the widespread downloading of health apps, many fail to sustain engagement, highlighting the necessity to delve deeper into what is needed for meaningful and ongoing user engagement.
- » An immersive virtual world, with Virtual Reality merging with Large Language Models, has the potential to generate impactful positive outcomes for managing the mental health issues that the current generation increasingly faces.



“Equity in design is crucial, but equally critical is the cost of accessing these technologies, & hence the need to address affordability while supporting the scale of adoption.”

~Ms. Reena Soodh

» AI models, while undergoing training, require appropriate inputs on culture and personalization to ensure effective care, support outcomes, and adoption.



**Mr. Sandeep Gulati, General Manager
– India & South Asia, ResMed India**

» The voices of caregivers and pioneering patients who had helped care for others served as a guiding light, leveraging Digital Health solutions to ensure care equity.

» ResMed’s Digital Health solutions have already impacted the lives of 4 million people worldwide.

» The solution provided a means to help

individuals prevent serious illnesses and supported the early identification of health issues associated with sleep apnea, functioning as a patient’s companion.

- » The Digital Health kit enabled individuals to track sleep data, offering support to caregivers and doctors alike, with secure and convenient access.
- » As India evolved with digital data privacy rules, citizens could use such digital support systems.

“ResMed’s Digital Health solutions are moving increasingly away from hardware to a more digital-centric service design that is software driven”

~Mr. Sandeep Gulati

Dr. Tarang Gianchandani, Chief Executive Officer, Sir. H.N. Reliance Foundation Hospital and Research Centre

- » The use of Optical Character Recognition (OCR) facilitated patient data capture and sharing with the concerned doctors, enhancing the effectiveness of teleconsultations.
- » The hospital's grassroots team, composed of nursing staff and coordinators, received practical support through digital tools, which enabled them to facilitate care and provide access to healthcare services.
- » The hospital's Digital Health platform allowed for the monitoring of patient's progress and the timely delivery of alerts.



"A unified platform that assists all hospitals in adopting Digital Health & enables data exchange would benefit every stakeholder, accelerating the maturation of AI/ML-driven models. This will drive care innovation, leading to more evidence-driven and impactful predictive & personalized healthcare programs on the ground."

~Dr. Tarang Gianchandani

- » Digitization emerged as a new paradigm in healthcare, orchestrating every aspect of care. The transition towards digitization of the care process was recognized as the key approach to reducing mortality and morbidity.
- » Notably, digital intervention was deemed most critical for addressing chronic diseases alongside acute illnesses.



Day 1

Session 3: Digital Health Strategy for Hospitals- Technologies Taking care beyond Beds

12.00 pm – 1.00 pm



“Smart software will soon make smarter diagnosis, and it is a matter of time before it will become legally mandatory for doctors to get a second opinion from software, before starting the treatment.”

~ Dr. Devi Shetty



Dr. Devi Shetty,
Chairman &
Executive Director,
Narayana Health



Mr. Gautam Khanna,
CEO, P.D. Hinduja Hospital
and Medical Research Centre



Dr. Evita Fernandez,
Chairperson,
Fernandez
Foundation



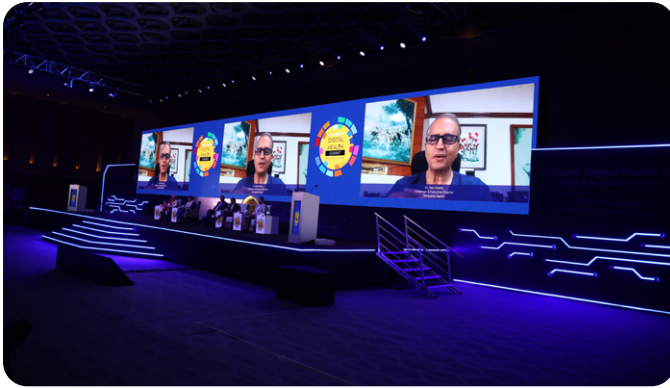
Mr. Amit Mookim,
Managing Director,
IQVIA-South Asia



Mr. Mudit Dandwate,
CEO & Co-founder,
Dozee



Ms. Alison Raw,
Deputy Director Public
Health, Climate & Disaster
Resilience, Office of
Secretary General,
Commonwealth Secretariat



Dr. Devi Shetty, Chairman & Executive Director, Narayana Health

» India will also showcase to the world that the wealth of the nation or the wealth of the family has nothing to do with the quality of healthcare its citizens will enjoy, and it will happen within the next five years.

» This massive transformation will happen because most hospitals in India will have a Digital Health platform or connect to one that

will bring together the patients, doctors, nurses, technicians, administrators, and machines while enabling care to be delivered anywhere/everywhere.

» Digital solutions will not make doctors less important or small; these digital tools will make doctors safer for the patients and enable them to treat more patients.

» Doctors prefer to look at their mobile phones multiple times which is a preferred platform option to enable Digital Health access.

“India will become the first nation to dissociate healthcare from affluence.”
~ Dr. Devi Shetty

Medical errors, not negligence, are a leading cause of death in the USA, as stated by the Joint Commission. The real reason for this is communication failure, which will be resolved with Digital Health implementation and integration.

Mr. Gautam Khanna, CEO, P.D. Hinduja Hospital and Medical Research Centre

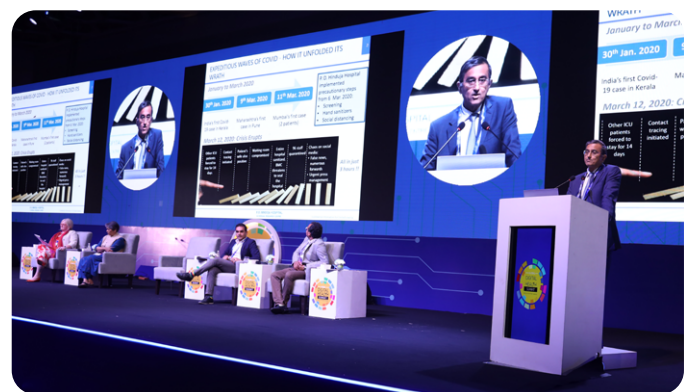
» Today, patients come habitually after taking a first opinion from Google and a second opinion from the treating doctor – such is the influence of serendipity of the digital ways into the lives of both doctors and patients.

» With changing customer expectations and informed consumers on the rise, hospitals must enhance the customer experience.

» Digital Health is no longer confined to providing care to patients remotely but will enhance care right up to home.

» There will be connected devices and monitoring of various parameters, and the physical will co-exist in synergy with digital systems, increasing both reach and access exponentially.

» During COVID-19 – the program executed enabled the entire clinical team to monitor patients at home and segregate those requiring hospitalization, etc.



“The Telemedicine model we had implemented even before COVID-19 started enabled care access to more than 250 cities across 10 countries with expertise coming in from the two Hinduja hospitals.”

~ Mr. Gautam Khanna

- » While the pandemic amplified the digital model of care – the care system will move from being reactive-driven to a more proactive model of care that is both preventative-oriented and personalized.
- » With all the innovative technologies such as AI and ML, it is almost evident that we are converging into a healthcare system that is more connected, accountable and transparent.



Dr. Evita Fernandez, Chairperson, Fernandez Foundation

- » Digital technologies and our integrated EMR adoption by all stakeholders within the hospital system helped resource optimization, reduce medication errors, supported telephonic triage and care continuity.
- » Data analytics have supported management to ensure patients are seen within the desired period to track follow-ups, do long-term

segregation and find beds for the right clinical priority.

- » By monitoring our C-Section and keeping it well below 25%, we are also able to measure the outcome of care.
- » There are also reminders and pop-ups for our in-patients when they are in transit from one department to another.
- » While it is factual and evidence-based that technology is transforming care and caregivers – but the crucial question remains – how can technology be used wisely and appropriately?

“At Fernandez Hospital, patient data was utilized to develop a predictive model to implement a growth curve specific for antenatal cases in order to prevent stillbirth for mothers from the 28th week onwards. This led to the stillbirth rate dropping from 5.8 to 2.3. This was a significant impact of technology on patient outcomes. ”

~ Dr. Evita Fernandez

Mr. Amit Mookim, Managing Director, IQVIA-South Asia

- » The pandemic was a good wake-up call that drove technology within the care process, creating a new normal that had to be done with natural compulsion. It is good to reflect and consider the parameters needed to become a digitally mature healthcare nation and the beneficial impact it could have.
- » Digitally enabled hospitals within a matured health system could support innovation for larger humanity. Health data exchange will enable an authentic understanding of the patient's condition, and the usage of such information will enable proactive and predictive action at the population level.
- » While technology investments come at a cost, adopting technology can transform the health system to be less costly for its citizens. The importance of rich and clean data sets is so critical and can directly drive innovation and better patient outcomes.
- » Before AI or anything like ChatGPT to practically deliver benefits it is imperative to put a basic system in place.



“India could launch innovative drugs earlier – say within 12 months instead of 39 months, if data governance and digital maturity are realized creating an environment ready for virtual clinical trials.”

~ Mr. Amit Mookim

» At the most fundamental level, three things need to take place – firstly, are there initiatives in place; secondly, the desired funding to put systems in place; and thirdly, the data governance and the institutions that will drive this change?

» When we have initiatives in place – the second comes infrastructure, EMR, data standards and IT systems for interoperability.



Mr. Mudit Dandwate, CEO & Co-founder, Dozee

» Dozee is changing and bringing enhanced patient safety to every bed in hospitals. It is already functional in more than 350 hospitals across India, and it is all made in India.

» An inbuilt AI based contactless remote patient monitoring and early warning system, that brings the power of continuous and connected monitoring in High-dependency Care Units and step-down ICU.

- » Any bed within the hospital could be converted into an AI-powered, continuously monitored bed. The product design is a thin sheet (inspired by race cars) that goes under the bed and collects the vibration produced in every heartbeat, every respiration, and so on.
- » Uses AI algorithm that converts the different biomarkers, like heart rate, respiration, blood pressure, and data monitored from a central command. The best part is that the algorithm continuously monitors the trends of the data. If there is any kind of trend deviation, it immediately alerts the nurses so an immediate action can be taken.
- » Beneficiaries could connect to using wireless technologies and monitor patients outside of the beds as well.
- » Non-contactless blood pressure to measure blood pressure – the first of its kind, which is clinical grade is another breakthrough innovation at Dozee.

“Recent studies done to establish the clinical efficacy of the Dozee have found that the nurses are spending 80% less time, and this could counter the acute shortage of nursing staff we have in many countries while ensuring care quality.”

~ Mr. Mudit Dandwate



Ms. Alison Raw, Deputy Director Public Health, Climate & Disaster Resilience, Office of Secretary General, Commonwealth Secretariat

- » The Commonwealth of fifty-six countries work together for prosperity, democracy and peace and works across all five regions of the world.
- » This widespread acknowledgment throughout the Commonwealth of the transformation capacity of digital technology enhances and elevates the livelihoods of our populations.
- » The 2022 Commonwealth Heads of Government Meeting (CHOGM) affirmed the Commonwealth's commitment to leveraging digital technologies to support its citizens.
- » The main point of this program in the creation of the *Commonwealth Health Maturity Assessment* is aimed at supporting countries in identifying, defining and articulating a *base model representative*.
- » The *Commonwealth Health Maturity Assessment* comprises of over 40 indicators and assesses maturity levels and four key Digital Health domains.
- » In the G20 meeting held recently, it is India who is saying there needs to be a timeline and that whatever is done must be tangible.
- » Great things happen when a few citizens come together; there is little choice except to come together and move forward to make the future better for generations, for all.

“Secretary General, Her Excellency, Rt. Hon. Patricia Scotland KC has noted that India is a leader in health innovation and is indeed leading the Commonwealth of countries in this field... Commonwealth is ready to work with members and partners to realize the goals of convergence, standardization, data management, and data products.”

~ Ms. Alison Raw

Launch of SMART Hospitals' Suite & SMART Clinicians' Suite



At the 'SMART Hospitals' Suite and SMART Clinicians' Suite' Launch, Dr. N. K. Singh, Executive Vice-President, Digital Health Associates Private Limited, informed that this initiative is to help overcome the significant issues that arise due to the multitude of Digital Health solution providers, each claiming superior technology over the others.

Given the crucial role of digital transformation in healthcare across the value chain and the continuum of care, doctors, clinics, and hospitals are increasingly adopting technology.

In the absence of right guidance, wrong decisions about technology can result in squandering substantial investments and operational inefficiencies, thereby impacting the day-to-day functioning of doctors, clinics and hospitals. Consequently, this erosion of operational efficacy can undermine confidence in the utility of technology in the provision of care and optimising resources.

After engaging with various hospitals, clinics, doctors, and providers, it became evident that there is a pressing need to establish a mechanism to identify appropriate technologies with robust checks and balances. The objective is to impartially assess the utility of these technologies, subsequently, empanel them in the SMART Hospitals' Suite and SMART Clinicians' Suite.

Session 4: Specialty Care redefined with Digital Health

2.00 pm - 4.00 pm



“Telehealth is a great solution to address the acute shortage of healthcare professionals and improve continuing access to care.”

~ Dr. Michele Y. Griffith



Dr. Michele Y. Griffith,
President,
International Society
for Telemedicine and
eHealth (ISfTeH)



Dr. Sunil K. Khetarpal,
Director,
Association of Healthcare
Providers - AHPI (India)



Dr. Vijay Harikisan Bang,
President,
Cardiological
Society of India



Dr. Shashank R. Joshi,
President,
Indian Academy of Diabetes,
Ex-Chair, International
Diabetes Federation
(South-East Asia)



Dr. Hrishikesh D. Pai,
President,
The Federation of Obstetric
and Gynaecological
Societies of India



Dr. Pankaj Gupta,
Director - Digital Health,
WISH Foundation



Dr. Michele Y. Griffith, President, International Society for Telemedicine and eHealth (ISfTeH)

- » Over the last year, it has been noted that 80% of consumers have used telehealth at least once.
- » There are 75% of those over the age of fifty-five who have used telehealth.
- » Within the primary care segment in the United States, the workforce shortage is predicted to increase by 2030.
- » The shortage of manpower is a global trend that is being observed worldwide.
- » There is a shortage of primary care physicians for a number of reasons.



“Many restrictions were relaxed during the public health emergency, but there is a need to fix permanent legislation with respect to reimbursement and fair compensation, which has continued to remain unresolved.”

~ Dr. Michele Y. Griffith



Dr. Sunil K. Khetarpal, Director, Association of Healthcare Providers - AHPI (India)

» Digital Health improves diagnostic ability and productivity, patient-doctor communication, and patient-doctor relationship, reduces cost of delivery, avoid medication errors, and increases patient safety.

» Ayushman Bharat Digital Mission (ABDM) is now launching a microsite implementation concept. The microsite involves small clusters

in a particular geographical area, both public and private, hospitals, clinics, diagnostics, and labs.

- » Formal training and capacity building is important, and I am also getting trained with the certificate course in Digital Health from IIM Raipur and Academy of Digital Health Sciences.
- » At least the basic knowledge required is a must-have and professionals should undergo the basic course in Digital Health.
- » Hospitals need to have a policy for the upgradation of technology. There is a need to evolve a strategy for the adoption of EMR, a multi-sectoral approach, including healthcare facilities, healthcare professionals and technology experts.

- » The need to evolve a mechanism to monitor technology adoption by physicians and incentivize doctors should be addressed.
- » Quoting Dr Rajendra Pratap Gupta, “Digital Health will make the doctor and bed to population ratio redundant by 2030.”

“While there are barriers to adoption such as paucity of time, financial resources, training knowledge, competing administrative tasks, transparency, adherence to guidelines, medical outcomes, belief factors, ROI, perceived loss of physicians’ and patients’ money...Digital Health technology is emerging as an enabler to ensure accessible, affordable and quality health services that covers all the aspects of universal health coverage and there is no going back.”

~ Dr. Sunil K. Khetarpal

Lt. Gen. (Dr.) Sanjiv Chopra, (Retd.), Chief Executive, Tata Trusts Cancer Initiative

- » With the cancer load in our country, the digital route is the only way to deliver care for the massive population we have in our country.
- » The four pillars of care, including screening programs, preventive measures, lifestyle modifications and adoption of standard treatment guidelines, are being implemented across all our care sites.
- » The digital nerve center is being established in Guwahati. It is led by a nurse practitioner who manages the calls to address doubts and other related queries, and this is very productive.
- » Digital Health assistance is a big way to achieve patient centricity in all our patient engagement in cancer care.



“While Teleconsultation has become routine, the geographical and socio-economic divide persists...there is a need to execute the right technology to store health data and utilize this data for the care continuum, which is being implemented within our program in 14 districts.”

~ Lt. Gen. (Dr.) Sanjiv Chopra, (Retd.)

- » Radiation therapy is being run using the digital model with remote experts guiding the radiation process. There are Virtual Tumour Boards that run every Friday and Saturday in the presence of caregiver.
- » Usage of digital pathology has also been integrated into all our cancer care programs.



“When we look at IoT and AI and fundamentally mimicking human cognitive function – in diabetes care, detection, diagnosis, management, outcome prediction and treatment spectrum – AI clearly has a role...and fundamentally, diabetes is all about prevention, we need to look at health and happiness together.”

~ Dr. Shashank R. Joshi

Dr. Shashank R. Joshi, President, Indian Academy of Diabetes, Ex-Chair, International Diabetes Federation (South-East Asia)

- » With 101 million living with diabetes in India – diabetes management in the digital age seems not only pertinent but also the only way to provide quality care.
- » After 107 years post insulin discovery, we still have significant mortality and morbidity.
- » Current adoption of Continuous Glucose Monitoring (CGM) which has got accelerated post COVID-19 will improve diabetes management significantly.
- » There is still the limitation of the predictive modelling as lots of subjectivity data points are included.
- » This is a virtual person mimicking the biochemical profile of a real person and ensuring a bi-directional flow of information.
- » Since one size does not fit all – this model helped to make the diabetes risk management program in a highly personalized manner based on data and information derived from the AI model.

Dr. Hrishikesh D. Pai, President, The Federation of Obstetric and Gynaecological Societies of India (FOGSI)

- » At FOGSI, with its 40,000 members, we are the custodians of 686 million women's health in India.
- » In the last three decades, the current time has been the most exciting time, with too many apps opening up immense possibilities for connecting with patients and doctors.
- » Digital marketing could be a starting point for many doctors – many Apps for women's health with fantastic wearable devices are proving useful.



“For wider and rapid adoption of Digital Health we would need to address the lack of awareness, taboos and evolve Digital Health friendly regulations... ASHA workers could go and take POCUS (Point-Of-Care-Ultrasound Device) to rural and remote regions and enable care delivery, this will revolutionize rural maternal healthcare programs.”

~ Dr. Hrishikesh D. Pai

» Remote care enabled by POCUS (Point-Of-Care Ultrasonography), performed by the treating clinician at the bedside, with immediate interpretation and clinical integration of the imaging, the results have proven to impact the care outcome significantly.

» The need for Pap smears to be read by humans could be done by AI tools much better.

» Training specialists to embrace practical tips and training with the latest technologies is the need of the hour.

» FOGSI has adopted within all its internal

functioning digital process, including elections via digital methods.



Dr. Vijay Harikisan Bang, President, Cardiological Society of India (CSI)

» CSI follows remote consultation and propagates it through its 7000 members nationwide.

» Encourages collaboration, such as the one CSI is doing with TCS on Atrial Fibrillation.

» AI-equipped stethoscope being explored for usage in appropriate care scenarios.

» Remote CPR using digital tools is another

impactful program.

» The mortality of more than 12 lacs people dying of cardiac arrest inside the hospital needs to be addressed with defibrillator made available and usage of drones, etc. for remote areas.

“Artificial Intelligence/ Machine Learning (AI/ML) tools embedded in Cardiac MRI, Echo and ECG has become routine with cardiologists today, and there is an openness to adopt innovative technology for better patient outcome within CSI.”

~ Dr. Vijay Harikisan Bang

Dr. Pankaj Gupta, Director - Digital Health, WISH Foundation

- » Digital Health was initiated in 2014, focusing on primary care by WISH Foundation.
- » The current operation spans 1000 Digital Health and Wellness Centers (d-HWCs) pan India.
- » The Wadhvani Institute of Digital Health is considering programs such as Uberization of health at the community level and following such proven things as Zomato.
- » There are ongoing capacity-building efforts with academic tie-ups along with research publications.
- » WISH Foundation has the ability to design, develop, implement, test and support the scaling up of Digital Health solutions.



“We are creating a ‘clearing house’ of Healthtech start-ups and products and filtering those that we could help find ways to scale up.”

~ Dr. Pankaj Gupta

Launch of Feel Something, Do Something



FEEL
SOMETHING
DO
SOMETHING



Early warning signs of health problems should not be ignored. Ignoring these signals can lead to serious health consequences. The Health Parliament and the International Patients' Union has launched a worldwide initiative called “Feel Something, Do Something” to encourage people to take action when they experience even the slightest health changes. This initiative is about valuing our health by paying attention to our bodies and taking steps to address any potential problems.



Day 1

Session 5: From Small Hospitals to Smart Hospitals

4.30 pm – 6.00 pm





Dr. K. Madan Gopal,
Advisor – Public
Health Administration,
NHSRC, MoHFW,
Government of India



Dr. Milind Antani,
Lead, Pharma,
Life Science & Healthcare Practice;
Head, Social Sector, Nishith
Desai Associates



Wing Commander Sushil Kumar,
AVP,
Online Business, Mediversal
Multi Super Speciality Hospital

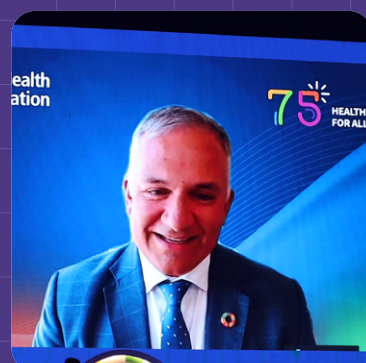
Mr. Zaw Ali Khan,
Founder & CEO,
Criterion Tech Pvt Ltd



Dr. Dhruv Joshi,
Co-Founder & CEO,
Cloudphysician



Dr. Alain Labrique,
Director,
Department of Digital
Health & Innovation,
World Health Organization





Dr. K. Madan Gopal, Advisor – Public Health Administration, NHSRC – MoHFW, Government of India

» During the COVID-19 crisis, when the number of active cases exceeded the ability to manage (beyond 30 lacs cases/day), technology came to the rescue, where more than 70-80 % of patients could be managed at home.

» Digital Health solutions are the only way to bridge the rural-urban divide and help correct the prevailing information asymmetry within the health system.

» With Digital Health solutions, all tertiary care centers, such as the upgraded medical district hospitals, could extend secondary and primary care services and support the delivery of primary care.

» Technology seems the way out to build resilience, binding both private and public health capacity and capabilities to address any healthcare crises, etc., while the upgradation of various facilities is a work in progress.

» The effort to make the urban primary centers

and urban wellness centers using technology in the smart center is being conceptualized for implementation.

» Capacity building is needed on all frontiers, and the ABDM program is envisaged in the 15th Finance Commission.

Dr. Milind Antani, Lead, Pharma, Life Science & Healthcare Practice; Head, Social Sector, Nishith Desai Associates

» While not all small hospitals are inherently “smart,” it’s important to recognize that a “smart hospital” can also be a smaller healthcare facility.

» Embracing change can potentially serve as a driver of growth, and in challenging times, seeking solutions is often the best course of action.

» The COVID-19 pandemic has ushered in rapid and significant changes, and the convergence of Digital Health is progressing at a remarkable pace.



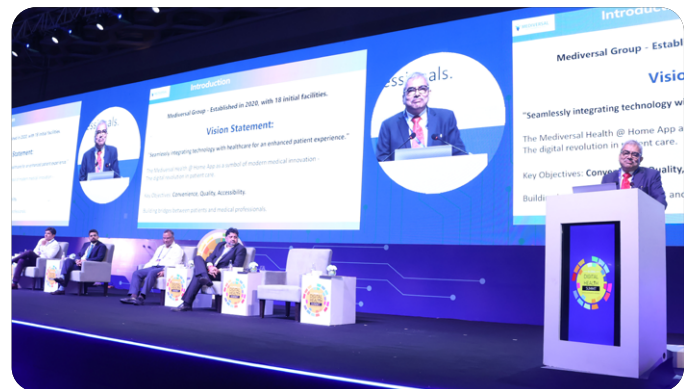
- » It is high time to consider the establishment of a “Digital Health Act of India” and initiate the necessary efforts to make it a reality.
- » With the penalty stipulated in the DPDP Act being 250 Crores, it is imperative for individuals and organizations to develop digital literacy while carefully navigating the digital transformation process.
- » All healthcare facilities, regardless of their size, should embrace Digital Health practices swiftly, while exercising care and caution, to remain pertinent and effective in the evolving healthcare landscape.

“A unified Digital Health Act could provide a consolidated legal framework to regulate and guide the rapidly evolving Digital Health sector in the country.”

~ Dr. Milind Antani

Wing Commander Sushil Kumar, AVP, Online Business, Mediversal Multi Super Speciality Hospital

- » Mediversal Hospital has started in the midst of the COVID-19 crisis, by non-doctors in the year 2020, and despite the competitive scenario, it has done well due to the seamless integration of technology for an enhanced patient experience.
- » The Home app – launched in a town that is not even tier 2, was key to providing convenience, quality, and accessibility to all patients.
- » There was never a need for a chief of technology for execution.
- » The adoption of the home app has touched 5000+ downloads.
- » The app has enabled home delivery of medicine, home care services, video consultation, pathology at home, etc.
- » Dozee beds are deployed, and the training program has been integrated into our online platform for the paramedical and nursing staff.

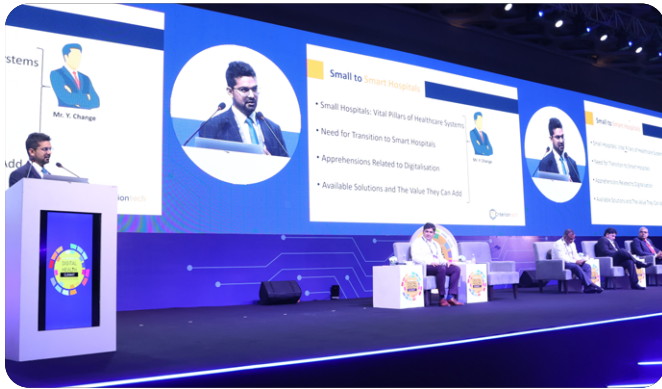


“The initial resistance from the doctor fraternity eventually gave way to them considering Digital Health as a means to enhance their popularity within their patient community and society at large. The result of this shift is evident today, as home care services are surpassing the pharmaceutical business.”

~ Wing Commander Sushil Kumar

» Our recruitment policy has prioritized the hiring of IT folks to drive our digital marketing, which has given us excellent results.

» We are the first movers, and people who adopted early on have become our loyal customers.



**Mr. Zaw Ali Khan, Founder & CEO,
Criterion Tech Pvt Ltd**

» Criterion Tech solutions played a pivotal role in rapidly increasing critical care bed capacity during the COVID-19 pandemic, empowering healthcare workers without the need to increase the number of specialist doctors.

» The deployment of digital solutions effectively contributed to preventing burnout among healthcare workers.

- » It is a well-established fact that even in the United States, small hospitals address 50% of healthcare needs.
- » While small hospitals often excel in managing patients and finances, the integration of technology is crucial to enhance patient outcomes, expand access, reduce costs, and diversify the scope of services.
- » Exploring the myriad benefits of technology offered by Criterion Tech, including smart patient kiosks, health apps, and eICU, is highly recommended.

“The adoption of digital solutions undeniably empowers small hospitals to expand their operations beyond the confines of their physical infrastructure.”

~ Mr. Zaw Ali Khan

**Dr. Dhruv Joshi, Co-Founder & CEO,
Cloudphysician**

- » Dr. Dhruv Joshi stated that right-time intervention was possible using Cloudphysician's care delivery solution and precious lives were saved, overcoming barriers of skill and distance.
- » Small hospitals could leverage such technologies to address the skill gap in managing medical emergencies and improve patient care outcomes dramatically without incurring exorbitant cost.
- » The goal of Cloudphysician is focused on bringing high quality ICU care to patients wherever they may be.
- » The solution follows institutionalized protocols with 24x7 intensivist monitoring and with smart alerts and advanced management in ventilator settings.



- » This could help avoid huge expenses at a private hospital in the metro cities while also overcoming the possible loss of life during shifting pre-hospitalization in a larger metro-based hospital.
- » Cloudphysician's technology platform RADAR enables such ease of access and care at any location where needed.

“The unique advantages of smart ICU are early diagnosis and protocolized management of any complications such as “Fat Embolism” following multiple fractures from a road traffic accident post-surgery, which is lifesaving...Cloudphysician's solution can go live with any partnering (small) hospital within 15 days, enabling it to achieve better care outcomes and revenue impact.”

~ Dr. Dhruv Joshi

Keynote Address by Dr. Alain Labrique, Director, Department of Digital Health & Innovation, World Health Organization

- » The pandemic has taught us many lessons, and we are today at an inflection point in terms of the adoption of Digital Health solutions across all our member states. Countries are seeking to know how to move out of a state of fragmented digital experimentation to a more systematic digital transformation.
- » There is a need to overcome the senseless loss of lives of infants and mothers with the appropriate intervention of digital technology.
- » The imperative to end the “pilotitis syndrome” of chasing shiny objects is needed, and time to integrate the fragmented Digital Health initiatives.
- » The blueprint for National Digital Health Transformation is based on a global consensus – this forms the architectural blueprint that should guide investment priorities of nations towards building their national Digital Health strategy.



“To facilitate national interoperable ecosystems of standardized technology, upstream and downstream tools are being developed in collaboration with academia, collaborating centers, including the private sector, and a Digital Health clearing house hosted for tested solutions.”

~Dr. Alain Labrique

- » The complex narratives at the WHO have now been made available in easily programmable templates for easy adoption by entrepreneurs within their nation's regional and local settings.
 - » WHO has released the second edition of the Classification of Digital Health Intervention and must be referred to for adaptation with a nation's Digital Health execution roadmap.
-

Launch of Course on Executive Leadership Programme for Founders & CEOs: Transforming Small to Smart Hospitals



- Based on a National Workshop conducted on Small Health Care Organizations: Opportunities and Challenges, we found that Small Health Care Organizations are the backbone of the Indian Healthcare system and cater to about 80% of the patients.
- Across India, Small Health Care Organizations are facing an existential crisis and are struggling with various issues from human resources, infrastructure, funding, high-end medical equipment, competition from big healthcare providers, and digitalization.



- Academy of Digital Health Sciences (previously known as Digital Health Academy) in collaboration with the Indian Institute of Management- Raipur is launching a first-of-its-kind course specifically for Founders and CEOs of Small Health Care Organizations to enable them to position their hospital as the preferred care service provider in their area of operation.
- This course will cover all the practical aspects of how to drive growth and sustainability in a SHCO including recent trends in hospital infrastructure, management strategies, Digital Health technologies, continuous quality improvement, emerging care models, disruptive innovations, and address the challenges faced by Small Hospitals. Through this course, our aim is to convert “Small Health Care Organizations” to “Smart Health Care Organizations.”

Valedictory Address by: Dr. Vijay Chauthaiwale, Scientist, Member, Board of Governors, IIM Raipur



“The first session’s focus on patients was truly applaudable and set a new benchmark for summits across the globe on healthcare and the clearly expressed needs of the patient community. If we still do not implement Digital Health, we will be doing a disservice to healthcare.”

~ Dr. Vijay Chauthaiwale

Dr. Vijay Chauthaiwale reflected on the insightful discussions that unfolded on the first day of the Global Digital Health Summit 2023.

- » In retrospect, the proceedings were exceptional, with a unique emphasis on placing the patient at the center of healthcare concerns. Amidst technicalities, it was easy to overlook the fundamental truth that the essence of healthcare revolved around the patient. Commendations to the GDHS 2023 team for consistently maintaining this patient-centric perspective from the inaugural to the concluding session.
- » The impressive convergence of presidents from various medical societies added a rare dimension to the gathering, showcasing the commitment of great leaders to addressing the real challenges in healthcare. The summit served as a testament to genuine efforts and leadership, highlighting the role of patients not merely as beneficiaries but as true partners in the Digital Health era.
- » The second session, led by Mr. Nikhil Mathur, delved into the management of chronic diseases across six dimensions. The insights shared during this session were enlightening, emphasizing the holistic approach required for effective chronic disease management. The recent collaboration between IIM Raipur and Academy of Digital Health Sciences, holds immense promise for the transformation of healthcare management and Digital Health.
- » Each session that day had a clear theme, and he commended the speakers for their precise and focused presentations.
- » It was crucial to embrace Digital Health solutions. Failing to implement these advancements would have been a disservice to healthcare. The recent collaboration between IIM Raipur and Academy of Digital Health Sciences was groundbreaking, with the potential to transform small hospitals into smart ones.

During conclusion, it was urged to each participant to reflect on and actively contribute to the mobilization of efforts towards achieving affordable healthcare. It is not just a need of the hour but our collective responsibility.

Certificate Masterclass with Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, Google



Certificate Masterclass with Dr. Milind Antani, Lead, Pharma, Life Science & Healthcare Practice; Head, Social Sector, Nishith Desai Associates

Certificate Masterclass with Dr. Arokiaswamy Velumani, Creator, Thyrocare



Opening remarks by Co-Chairs, Mr. Bakul Patel & Dr. Rajendra Pratap Gupta



“India has the true potential to be at the forefront of health innovation and adoption of Digital Health.”

~ *Mr. Bakul Patel*

Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, Google

- » The second day commenced with a warm welcome by Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, he drew insights from the patient community, renowned panellists with health system regulators and reformers, who collectively underscored India's resolute readiness for a transformative healthcare journey.
- » The discussions, inclusive of doctors, healthcare providers, entrepreneurs, and health system managers, unveiled an incredible timeline, he recalled.
- » Real-life experiences should be combined with entrepreneurial insights, emphasizing valuable lessons from government leaders. The imperative was clear: continuous engagement with the right stakeholders, including individuals, physicians, and government entities setting standards, was crucial for an incredible future in healthcare.
- » It was a resounding call to action, a commitment to make India a pioneering force in healthcare advancement.

Dr. Rajendra Pratap Gupta, Co-Chair, Global Digital Health Summit

- » In his opening remarks, Dr. Rajendra, the summit co-chair while acknowledging Mr. Bakul Patel for his global leadership support in the GDHS 2023, urged everyone to befriend technology instead of waiting for it to replace.
- » Recalling that AI is a genie out of the bottle and is here to stay, he encouraged everyone to follow the success model of practicing clinicians like Dr. Sanjucta Ghosh Arora from Kolkata and hospital management leader like Wing Commander Sushil Kumar, from Mediversal Hospital in Bihar.
- » He also encouraged everyone not to wait for another ChatGPT moment, emphasizing the unique opportunity over the two days to meet pioneers like, Mr. Bakul Patel, Dr. Alain Labrique, Dr. Karen DeSalvo, etc. to imbibe adoption and innovation within their respective fields.
- » He mentioned about the health robot in the panel which gives a glimpse of what is in stem for the clinicians and the healthcare industry.
- » Attendees were urged to seize the chance to network, engage in conversations, and spend valuable time with the legends present in the room.



Opening Keynote address by Ms. Ann Mond Johnson, CEO, American Telemedicine Association

9.10 am – 9.30 am



“Despite these proof points, there is still much work to be done to ensure that telehealth is as effective and legitimate as face-to-face interactions.”

~Ms. Ann Mond Johnson

- » Researchers at OHSU in Portland, Oregon, discovered that the delivery of virtual care, whether replacing or supplementing in-person services with telehealth, yielded similar, and in some cases, improved clinical outcomes and higher patient satisfaction.
- » The study’s results are promising as they suggest that telehealth has the potential to enhance and broaden healthcare options, particularly for underserved communities and individuals who may encounter barriers when seeking traditional care.
- » Approximately 48% of follow-up care for neurological services can be effectively conducted through virtual means.
- » Patients, such as those suffering from Parkinson’s, participating in the Veterans Administration’s post-cardiac arrest program experienced a 51% decrease in re-admissions through virtual care.
- » According to the American Medical Association (AMA), a late 2022 study revealed that more physicians perceived advantages in leveraging Digital Health solutions. The percentage of physicians who considered Digital Health tools advantageous for patients grew from 85% in 2016 to 93% in 2022.
- » Remote monitoring devices demonstrated the most significant growth and acceptance in healthcare practices.

Session 1:

Digital Health Strategy for Doctors

9.30 am- 10.30 am



“Partnerships between various stakeholders within the system were established on a solid foundation for the long term. These partnerships included collaboration with governments at both the central and state levels, industry bodies, financial institutions, as well as consumers. The clear advantages and enablement of such partnerships, particularly when digitally enabled, became very evident during the COVID-19 pandemic.”

~Dr. R. K. Srivastava



Dr. R. K. Srivastava,
Former Chairman,
Medical Council of India &
Former Director General
of Health Services,
Government of India



(Prof) Dr. Ram Kumar Kakani,
Director,
Indian Institute of
Management- Raipur



(Prof) Dr. Nikhil Datar,
Senior Gynaecologist
& Medical Director,
Cloudnine Hospital

Dr. Sanjay Sood,
Project Director-
eSanjeevani, C-DAC,
Ministry of Electronics
and Technology,
Government of India



Dr. Sanjucta Ghosh Arora,
Senior ENT Consultant





Dr. R. K. Srivastava, Former Chairman, Medical Council of India & Former Director General of Health Services, Government of India

» Dr. R. K. Srivastava emphasized the importance of strategy development for Digital Health adopters as a key driver for the future of healthcare.

» He highlighted the receptiveness and openness of Indian doctors to new challenges and innovations.

- » Recognizing the potential of Digital Healthcare models to enhance healthcare outcomes and improve accessibility, particularly in a nation with a population of 1.4 billion.
- » Underlining the need to consider care intervention priorities from a national standpoint, aligning with the government's commitment to rural healthcare.
- » Acknowledging the positive impact of strategic purchase in policy reforms, facilitating the acquisition of technology and solutions.
- » Identifying a readiness within pharmaceutical agencies to embrace and integrate new technologies.
- » Dr. Srivastava stressed about the importance of enabling Indian doctors through appropriate training and awareness campaigns to maximize the benefits of Digital Healthcare.

(Prof) Dr. Ram Kumar Kakani, Director, Indian Institute of Management- Raipur

- » Doctors should receive comprehensive education and training in Digital Health. Continuous learning is essential to stay updated with the latest advancements.
- » Doctors should actively collaborate with technologists, data scientists, and other healthcare professionals. They need to integrate Digital Health tools and technologies into their daily practice.
- » Digital Health should be used to enhance the patient experience, improve access to care, and facilitate better communication between patients and healthcare providers.
- » To be definitive stakeholders, doctors should take on leadership roles in healthcare organizations, policy development, and Digital Health initiatives.
- » Doctors should be well-versed in data security and patient privacy regulations. They must ensure that patient data is protected and used in compliance with relevant laws and regulations.



“The collaboration mentioned between IIM Raipur and Academy of Digital Health Sciences, can indeed be a valuable initiative to equip doctors with the skills and knowledge they need to become definitive stakeholders in the Digital Health landscape. It’s crucial for doctors to proactively engage with these opportunities and take on a proactive role in driving the Digital Health adoption and transformation process.”

~ (Prof) Dr. Ram Kumar Kakani

» Doctors should navigate the ethical challenges that arise with Digital Health, such as patient consent, data ownership, and ensuring that technology doesn’t compromise the doctor-patient relationship.

» Doctors can advocate for policy changes that support the widespread adoption of Digital Health, such as reimbursement for telemedicine services and regulatory frameworks that encourage innovation.



(Prof) Dr. Nikhil Datar, Senior Gynaecologist & Medical Director, Cloudnine Hospital

» The summit represented all stakeholders, including policymakers, administrators, investors, and lawmakers.

» The unique highlight of the summit was the participation of actual patients and patient groups, with the second highlight being involvement of practicing doctors.

» Obtaining an ABHA ID at the summit at the

NHA Booth was a good starting point.

- » The legitimization of Telemedicine by the Government was a great push, dramatically facilitated by COVID-19; and there is no going back.
- » The impact of UPI is going to be replicated by the ABHA ID, enabling swift Digital Health transformation at scale.
- » The private healthcare providers are awaiting the opening up of the eSanjeevani platform for teleconsultation.
- » Considering the arrival of Assisted Reproductive Technology (ART), surrogacy, and organ transplantation, there was a need to ensure the misuse of the Digital Health approach.
- » Advance directive being now legitimate and legal, there was a need to include this as part of the Digital Health record system.
- » Starting with using a consent-taking procedure in a digital format was a good area to start to legally protecting the doctor.

- » Although many of us had pursued careers as doctors, lawyers, technologists, and more through extensive training, it was essential to remember that our fundamental and enduring role was that of a patient. To maximize the benefits of Digital Health methods, we had to embrace this patient-centric perspective and actively promote the adoption of these innovations.
- » The traditional approach to obtaining informed consent often deviates from the recommended legal standards. The question arises: could a digitally enabled consent process, supported by digital tools and incorporating appropriate consent layers, offer a more effective and compliant method? This digital method could then be followed up with the physical method if deemed necessary. The goal is to improve the consent process to align with legal standards while leveraging technology for efficiency and accuracy.

“India stands on the brink of a digital revolution within the healthcare system. This transformation has the potential to reshape and enhance healthcare services, and it’s imperative that we wholeheartedly embrace to advance the well-being of our society.”

~(Prof) Dr. Nikhil Datar

Dr. Sanjay Sood, Project Director- eSanjeevani, Centre for Development of Advance Computing, Ministry of Electronics and Technology, Government of India

- » Adopting Digital Health solutions has led to a revolutionary transformation in healthcare delivery systems worldwide, enhancing accessibility, efficiency, and effectiveness.
- » eSanjeevani emerged as a crucial lifeline during the pandemic, demonstrating the importance of telemedicine in crises. This success story laid the foundation for the development of eSanjeevani 2.0, featuring innovative capabilities and functionalities.
- » The key features of eSanjeevani 2.0 are designed to replicate the care provided in traditional hospital settings. The user interface was intentionally kept simple and intuitive to ensure users can readily adopt the platform with minimal change management requirements.



“In addition to their intrinsic healing capabilities, doctors must also harness the power of technology. Through the adoption of digital tools, healthcare professionals can evolve their practice, extending care reach to patients’ homes. Integrating technology and medical expertise can result in more accessible and efficient healthcare services.”

~ Dr. Sanjay Sood

- » The system exhibits rapid scalability, accommodating a vast number of users and consultations daily. It also adheres to the highest security standards to safeguard patient data and ensure privacy.
- » Over a dozen point-of-care devices, both domestic and international, have been seamlessly integrated into the platform, enhancing its diagnostic and monitoring capabilities.
- » eSanjeevani 2.0 fully complies with all national and relevant international healthcare standards. It has integrated with the ABDM framework and adopted the SNOMED system to ensure compatibility with global standards.
- » These points collectively highlight the remarkable advancements and capabilities of eSanjeevani 2.0, which not only addresses the immediate healthcare needs of the population but also ensures alignment with international healthcare standards for comprehensive and sustainable healthcare delivery.



Dr. Sanjucta Ghosh Arora, Senior ENT Consultant

» In the session, Dr. Sanjucta shared the benefits she has derived from adopting the Digital Health tools. These tools have led to increased productivity and optimization of the patient care process, underscoring the positive impact of digital solutions in healthcare.

» The session highlighted the transformation in patient record management. What was once a cumbersome process has now become simple and efficient with the introduction of digital solutions. This advancement has significantly improved the healthcare workflow.

» The adoption of digital tools has allowed healthcare professionals to provide prescription instructions via voice commands. This innovation saves time and enhances the patient experience by offering clear and personalized guidance.

» Another notable development is the ability to create and share custom videos with patients. This approach eliminates the need for extensive online searches, providing a more direct and effective way to deliver patient information.

“My patients are now much closer to my practice, thanks to the Digital Health app. It has streamlined many critical tasks that are essential for patient care. I have become so accustomed to this app that it has significantly enhanced my productivity and, in turn, patient satisfaction. It has also played a key role in building trust with my patients.”

~Dr. Sanjucta Ghosh Arora



Launch of Digital Doctor Leadership Maturity Model



- » Dr. Rajendra Pratap Gupta, Summit Chair, launched the Digital Doctor Leadership Maturity Model (DDLMM), a proprietary model developed as a result of years of work and research by the senior leadership team at Health Parliament.
- » The idea behind this maturity model is to provide clinicians with a roadmap for adopting technology while achieving proportionate improvements in clinical outcomes as they progress along the value chain of technology adoption.
- » The model is derived from a weighted measure of sub-parameters defined within three broad dimensions: 'adoption as users, validators, and new knowledge creators'.

Session 2:

Start-ups Driving Disruptions in Healthcare

11.00 am – 12.00 pm



“The remarkable achievement of the 27 member EU states endorsing data shared accross the border occurred within 3 weeks of the pandemic, effectively overcoming a debate that had persisted for two decades.”

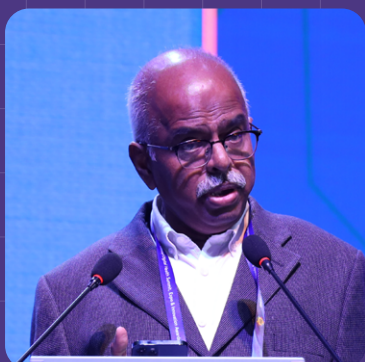
~Mr. Brian O'Connor



Mr. Brian O'Connor,
Chair,
European Connected
Health Alliance



Mr. Harkesh Mittal,
Chairman,
Startup India Seed
Fund Committee



Dr. Arokiaswamy Velumani,
Creator,
Thyrocare

Dato Sivakumar Krishnan,
Advisor,
MRANTI Health Tech Hub,
Ministry of Science and
Technology Malaysia



Mr. Manish Dureja,
Member,
Board of Directors,
Digital Health Associates
Private Limited





Mr. Brian O'Connor, Chair, European Connected Health Alliance

» All disruptive innovators took lots of risks to get where they got and fought with the establishment in whatever areas they were in. They succeeded in doing what they wanted to do – but also helped many people, encouraged, and employed.

» Disruptive innovation is not just technology but actually are people – naming two people who

were disruptive – Mr. Bakul Patel, not only in terms of Google but also in terms of previous work he did in the states where he reshaped the attitude towards healthcare and how to look at software, etc. The second person who needs no introduction is Dr. Rajendra Pratap Gupta, who simply is unstoppable.

- » The key message was that you all can be disruptive not for the sake of it – pick a need that needs a solution – too many ideas are produced which are good ideas – but they don't go anywhere as there is no market for them – so find a need and create a solution, and you can get a reward for it.
- » In a disruptive session like this, we disrupted the norm through the discussion of those who have done exceptionally well and it is the beginning of the end.
- » Don't stop being disruptive, and remember, care about what your innovation is going to do for your fellow human beings. Keep doing good and do it faster.

Mr. Harkesh Mittal, Chairman, Startup India Seed Fund Committee

» Mr. Mittal highlighted that the foundational work for vaccine development, which took place 25 years ago, was spearheaded by Bharat Biotech and Shantha Biotech, with support from the Technology Development Board and the Serum Institute. Dr. Mashelkar played a pivotal role in driving this leadership agenda, despite limited government support.

- » The session emphasized the importance of acknowledging and respecting the individuals and organizations that laid this significant milestone in the field of vaccine development.
- » Furthermore, it was noted that the country now possesses the desired Digital Health Infrastructure, a testament to the progress made in healthcare technology.



“It's important to recognize that a startup isn't a magical endeavor. Even with ambitious dreams, it's wise to exercise patience and wait until the foundation becomes solid and widely accepted before embarking on tangible growth phases.”

~Mr. Harkesh Mittal

- » This infrastructure is poised to play a crucial role in advancing healthcare services and improving access to medical information and resources.



Dr. Arokiaswamy Velumani, Creator, Thyrocare

» Start-ups were advised to prepare for a marathon rather than a 100-meter dash, emphasizing the long-term approach as a valuable strategy that yields benefits over time.

» The success story of Thyrocare, which spanned four decades, was highlighted as a testament to the advantages of single-minded focus and avoiding distractions. This approach enabled the company to achieve remarkable

results, such as zero debt and an impressive 40% EBIDTA.

- » Thyrocare's journey was described as transformative, as it addressed the widespread issue of costly routine pathology services, making them highly affordable.
- » This transformation led to the achievement of scale, pricing power, and attracting the top talent within the sector.
- » These takeaways underscore the significance of a sustained and focused approach in building a successful and impactful business over time.

“Profit should always stem from the efficiency of the production process, not from the customer.”

~Dr. Arokiaswamy Velumani

Dato Sivakumar Krishnan, Advisor, MRANTI Health Tech Hub, Ministry of Science and Technology, Malaysia

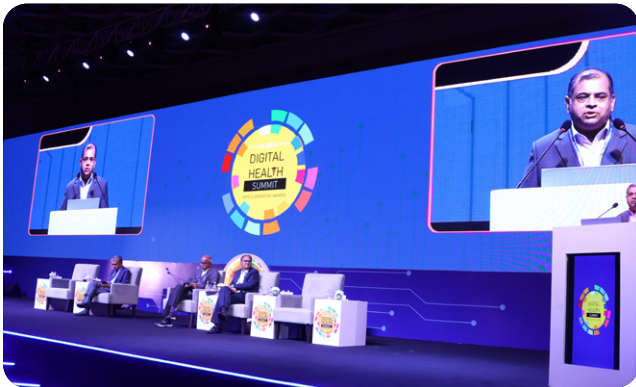
- » During this session, Dato Sivakumar shared that it was an app developed by two individuals within a startup that played a pivotal role in helping Malaysia respond effectively to the early stages of the COVID-19 pandemic. The success of this app is underscored by the fact that it has amassed a remarkable 14 billion data points. In addition to data management, the app has facilitated the administration of 72 million COVID-19 vaccinations, with corresponding certificates issued to recipients.
- » Another noteworthy application of technology in healthcare discussed during the session was using AI for interpreting chest X-rays. This AI-driven solution serves as a valuable tool for risk stratification, aiding in the assessment of patients and streamlining healthcare processes.



- » These real-world examples highlight the power of innovation and technology in addressing healthcare challenges and demonstrate the positive impact that startups and digital solutions can have on healthcare systems during global health crises.

“For startups, it’s critical to triangulate their innovation or startup idea with the input and needs of two key stakeholders: health professionals and patients. This approach guarantees broader acceptance and early success.”

~Dato Sivakumar Krishnan



Mr. Manish Dureja, Member, Board of Directors, Digital Health Associates Private Limited

- » The possibility of preventive care hinges on data sharing and the establishment of data governance.
- » The concept of a universal health passport, ensuring secure health data access while traveling, has gained prominence due to recent disruptions, such as the COVID-19 pandemic.
- » The need for such solutions has been underscored by recent healthcare challenges.

- » The launch of the International Patients’ Union, by Digital Health Associates, presents a unique platform for collecting diverse patient experiences, thus closing the feedback loop within the healthcare system.
- » Embracing and adapting to Digital Health is essential, rather than avoiding or resisting its integration.
- » Soon, this patient-driven feedback loop will enable doctor rating and ranking, ensuring trusted access with built-in reliability and evidence-based decision-making.

“Digitizing your health data not only facilitates timely and appropriate care but also empowers various stakeholders to generate value, including the patients themselves.”

~Mr. Manish Dureja

Launch of Mission SCALE



The summit witnessed the launch of mission SCALE by Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Consumer Affairs & Food & Public Distribution and Textiles, Government of India, encouraging the startups ecosystem to leverage this unique framework for accelerated growth.

"Discover Mission SCALE to be an enabling framework to support startups to Collaborate and Co-create to Accelerate and Leverage Entrepreneurial Ecosystem to strengthen the vision of a developed India."

"In healthcare, challenges that require disruptive solutions have persistently troubled the industry. While startups hold the potential to address these issues, not all of them show a promising path to success. To confront the challenging investment environment, it becomes essential to refrain from working in isolation and instead establish informal collaborative groups. This is the fundamental objective of Mission SCALE – to minimize the risk of failure and collectively tackle the hurdles that lie ahead."

– Dr. Rajendra Pratap Gupta, Summit Chair, Global Digital Health Summit

Session 3:

Future of Medical Devices - Software v/s Hardware

12.00 pm -1.00 pm



“The transformative power of software is evident in its ability to convert information into a comprehensible format for health applications. There is a need to regulate in a way that encourages innovation while maintaining health safety standards and effectiveness. The advent of generalized AI further underscores how information is being transformed in a manner that is understandable beneficial for health-related purposes.”

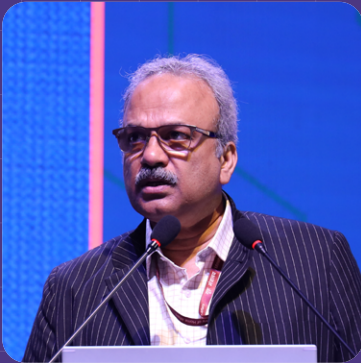
~Mr. Bakul Patel



Mr. Bakul Patel,
Senior Director,
Global Digital Health Strategy
& Regulatory, Google



Mr. Guruswamy K.,
Chief Operating Officer,
BPL Medical Technologies



Dr. Rajeev Raghuvanshi,
Drugs Controller General of India,
CDSCO, Government of India



Dr. Jitendra Sharma,
MD & Founder CEO,
Andhra Pradesh MedTech Zone Ltd



Dr. Rishi Mohan Bhatnagar,
President,
Lava International Limited



Mr. Zaw Ali Khan,
Founder & CEO,
Criterion Tech Pvt Ltd



Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, Google

» Delving into the realm of software regulation within Medtech is essential, balancing what should be regulated and what shouldn't. The significance of regulation becomes evident when considering the involvement of the Food and Drug Administration (FDA) in overseeing software within the medical realm and came to be placed as "SaMD" (Software as a Medical Device). The journey began in 2014, progressing slowly but now demanding adoption.

» The central concept of SaMD, is a simple yet powerful idea: using software to treat, cure and mitigate diseases in humans and animals. Notably, sensors and actuators, traditionally exclusive to medical devices, have become commonplace commodities.

» The crux lies in that software is the primary entity capturing crucial data. The initial guidance from the FDA has set a clear trajectory for the future, indicating the direction the world

"The previous model, with ten hardware experts for every software specialist, has now flipped to ten software experts for every hardware specialist. This reversal in the trend underscores the direction we are heading wherein software will play more and more crucial role within the healthcare realm."

~Mr. Bakul Patel

is headed. The imperative now is to regulate in a manner that ensures safety and fosters innovation.

Dr. Rajeev Raghuvanshi, Drugs Controller General of India, CDSCO, Government of India

- » Dr. Rajeev Raghuvanshi emphasized the ever-increasing pace of new innovations and the immense potential for software to support a country like India.
- » He noted that we are at an inflection point where Digital Health solutions are the key to addressing many of the current shortcomings in our healthcare system.
- » He highlighted the importance of a cultural shift within both the provider and patient communities, emphasizing that the sooner this transformation occurs, the better it is for the country.



- » Regarding the launch of a training program at IIM Raipur to educate doctors and healthcare professionals, Dr. Raghuvanshi praised Dr. Rajendra Gupta for taking the right steps in addressing the need of the hour.
- » He underscored the importance of more initiatives at all levels, including the training of technicians, to bridge the knowledge gap in this evolving field.

“Advocating a cultural shift in India, I urge caregivers and receivers to transition from traditional physical methods to software-driven processes. The urgency of this shift is paramount to ensure that citizens across the country benefit from various government health programs, the sooner, the better.”

~Dr. Rajeev Raghuvanshi



**Dr. Rishi Mohan Bhatnagar, President,
Lava International Limited**

Dr. Rishi drew parallels from the advent of mobile phones which revolutionized various industries by replacing traditional hardware with software-based solutions.

As we continue down this path, the concept of revenue sharing in the mobile industry becomes increasingly relevant.

- » Mobile phones have transformed from simple communication devices into powerful computers with software-driven functionalities. Cameras, GPS, music players, and even wallets have become software applications, reducing the need for separate hardware devices.
- » This shift has disrupted several industries. For example, digital cameras, standalone GPS devices, and portable music players have seen declining sales due to incorporating these features into smartphones. Traditional revenue models for these industries have been significantly affected.
- » Mobile platforms have given rise to thriving app ecosystems, where developers create software applications for various purposes. App stores and marketplaces enable revenue generation through app sales, in-app purchases, and advertising. When iPhone came in 2006, there were 46 industries that were shut down.
- » While the shift from hardware to software components presents significant opportunities for innovation and cost savings, it also poses challenges. Ensuring fair and transparent revenue-sharing models, addressing concerns about app store monopolies, and protecting user data and privacy are ongoing challenges.

- » As software components continue to replace hardware components, the mobile industry will likely evolve further. Emerging technologies such as Augmented Reality (AR) and Virtual Reality (VR) are expected to rely heavily on software, offering new opportunities for revenue sharing.

“As we witness the transformative shift from hardware to software in the mobile industry, revenue sharing becomes pivotal, mirroring the disruptions and opportunities that followed the advent of mobile phones.”

~Dr. Rishi Mohan Bhatnagar



Mr. Guruswamy K., Chief Operating Officer, BPL Medical Technologies

- » Mr. Guruswamy while stated that it became evident that the medical device industry in the country was in a catch-up mode, the old paradigm of attempting to fit all components into a single box was being replaced by integrating new software components.

- » Furthermore, the previous approach of creating enterprise solutions to enable connected devices to deliver data anywhere is giving way to a requirement for ubiquitous access by clinicians, administrators, and patients, regardless of their locations.

- » He emphasized that at BPL, there was a recognition of the need to navigate these disruptive changes.

- » The focus is on developing solutions that aligned with the evolving demands of the new market order.

“This new paradigm of making software integral to medical devices driving interoperability and data exchange needs serious collaboration between various related stakeholders, including the regulators and formulation of friendly policies on both data usage and security.”

~Mr. Guruswamy K.

**Dr. Jitendra Sharma, MD & Founder CEO,
Andhra Pradesh MedTech Zone Ltd**

- » The Global Digital Health Summit, a valuable platform, allowed us to gather and apply important lessons, ultimately leading to a focused action agenda. Subsequent actions could follow and the impact realized could be shared in the subsequent summits.
- » In MedTech, we recognized that fostering collaboration among diverse stakeholders was contingent on three fundamental elements: compatibility, convergence, and cost.
- » However, it was evident that the adoption of standards had lagged behind the pace of innovation, presenting a notable challenge.
- » Consequently, we identified a critical need to enhance convergence and harmonization within the MedTech sector. This recognition guided our future efforts to bridge the gap between innovation and standardization.



“Amidst the dynamic play of the software and hardware debate, I remain optimistic about collaborative endeavors and we at AMTZ are launching courses for building next- generation professionals in the Medical device sector. The Global Digital Health Summit serves as an ideal platform to set objective annual targets and implement pragmatic solutions, overcoming the gaps between possibilities and realisable outcomes.”

~Dr. Jitendra Sharma

**Mr. Zaw Ali Khan, Founder & CEO,
Criterion Tech Pvt Ltd**

The healthcare sector's progress hinges on collaborative efforts and accelerated advancements. Convergence of biomedical institutions, hospitals, and stakeholders is crucial, fostering interconnected clusters of diverse teams working independently yet collaboratively to drive innovation, the “innovation ecosystem.”

- » With over 30 years in the health sector, the last decade witnessed a dedicated focus on digital solutions for various healthcare stakeholders.
- » The widening gap between healthcare supply and demand necessitates innovative approaches to augment the capabilities of healthcare workers.





Day 2

- » To bridge the gap, innovative training approaches include the development of 2D and 3D animation videos, educational games with diverse scenarios, and integrating software with hardware, such as interactive mannequins for hands-on training.
- » A significant innovation in patient care involves the integration of hardware and software to optimize healthcare processes. Real-time data from various medical devices generate substantial information. Creating a “silent ICU” organizes this data, providing minute-by-minute interpretation and prioritization through a colour-coded heat map.
- » This integrated approach transforms patient care and serves as an excellent training tool for the next generation of healthcare workers. The synergy between software and hardware not only addresses current challenges but also sets the stage for advancing the capabilities of the healthcare workforce.

“Innovation at Criterion Tech is a cyclical process of optimizing hardware and software in response to market feedback and adoption.”

~Mr. Zaw Ali Khan

Session 4:

Digital Health and the Rise of Intelligent Medicine – The Role of Big Data, AI, Automation and Robotics

2.00 pm- 4.00 pm



“Robotic surgery, with its potential for four or even five degrees of freedom, transcends human limitations and ushers in a new era of precise and promising healthcare through digital technology.”

~Mr. Bakul Patel



Mr. Bakul Patel,
Senior Director,
Global Digital Health Strategy
& Regulatory, Google



Mr. N. Nawin Sona, IAS,
Secretary,
Public Health Department,
Government of Maharashtra



Mr. Thulasiraj Ravilla,
Executive Director - LAICO,
Aravind Eye Care System



Dr. Sheila John,
Head of Teleophthalmology
and E-Learning Department,
Sankara Nethralaya



Dr. K. R. Balakrishnan,
Director,
Institute of Heart and
Lung Transplant and
Mechanical Circulatory
Support, MGM Healthcare



Dr. Meenu Singh,
Executive Director & CEO,
AIIMS Rishikesh



Dr. Upasana Arora,
Managing Director,
Yashoda Super
Specialty Hospitals



Mr. Navneet Daga,
Sales Director,
Cloud Security Business- INDIA,
SAARC & ME, Radware Ltd.



Dr. Chandan Kumar,
Scientist-C/Deputy Director,
Medical Equipment &
Hospital Planning Dept.
Bureau of Indian Standards



Mr. Bakul Patel, Senior Director, Global Digital Health Strategy & Regulatory, Google

» Mr. Patel shared how exponential innovation of cell phones could lead to the possibility of predicting disease before symptoms emerge through advanced sensors and robotics, Digital Health holds the promise of a transformative future.

» He further stated that integrating ambient data collection systems, continuous monitoring, and generative AI was great for advancing healthcare

and improving our ability to predict and diagnose human well-being and health conditions.

- » Wearable devices, sensors, and IoT technology allowed for the continuous collection of a wide range of data, including vital signs, physical activity, sleep patterns, and dietary habits.
- » AI, particularly Machine Learning and Deep Learning Algorithms, helped process and identify patterns in the data that were indicative of health conditions and all this will happen in the near future.

Mr. N. Nawin Sona, IAS, Secretary, Public Health Department, Government of Maharashtra

Mr. Nawin emphasized during the session that while healthcare has advanced, many hospitals primarily utilize EMR/EHR for billing, insurance claims, and discharges, highlighting the need for full digitization.



- » There's a collective call to expedite Digital Healthcare adoption to unlock its full potential. Recognizing the vast potential of interconnected devices, Machine-to-Machine (M2M) communication is seen as a linchpin in the Digital Health ecosystem.
- » Pushing device data into machine-readable formats and standardization within the Bureau of Indian Standards (BIS) ecosystem is essential for seamless integration.
- » Security is a top priority, with blockchain technology offering immutable security for healthcare transactions.
- » The healthcare sector faces tangible obstacles that require immediate solutions.
- » The Aadhaar-based Data Management System, including the ABHA ID, is ready for active use.
- » Ensuring equitable distribution of healthcare is the ultimate goal, with the Global Digital Health Summit 2023 playing a pivotal role in achieving it.

“Maharashtra statewide insurance will enable all residents /domicile an INR 5 lacs coverage, there is a need to consider the smart contract as a possibility.”

~Mr. N. Nawin Sona



**Mr. Thulasiraj Ravilla, Executive Director-
LAICO, Aravind Eye Care System**

» Mr. Ravilla shared Aravind Eye Care’s digital journey, spanning over four decades since its foundation. With a strong presence in southern India, spread across 14 hospitals and over 100 rural clinics, Aravind’s eye care provisioning has reached close to 100 million people.

» The discussion underscored the immense potential of Digital Health solutions in

democratizing healthcare.

- » This transformation has the power to transcend geographical and rural-urban disparities, breaking down access barriers based on economic divisions.
- » Technology, in this context, becomes the great equalizer, offering the same level of care to the rich and the underserved.
- » Furthermore, the session highlighted a crucial aspect of technology’s role in healthcare - bridging skill gaps through digital learning and training.
- » Aravind Eye Care’s journey exemplifies how technology can bring healthcare to millions and equip healthcare professionals with the necessary skills to make a difference.

“Digital Health solutions excel at delivering the last mile solution, but the challenge lies in organizing quality data both within and outside the hospital.”

~Mr. Thulasiraj Ravilla

Dr. Sheila John, Head of Teleophthalmology and E-Learning Department, Sankara Nethralaya

In this session, Dr. Sheila delved into the remarkable strides in the healthcare sector through innovation and the integration of advanced technology.



- » Over 7,000 camps were conducted by Sankara Nethralaya, offering specialist examinations through teleconsultation. This approach has reached an astonishing 7 lacs patients, revolutionizing access to medical expertise, especially in remote areas. The essential backbone of this success is the support of Electronic Medical Records (EMRs), facilitating the seamless exchange of clinical data.
- » An intriguing glimpse into the near future suggests smartphones could play a central role in delivering a wide range of medical services, including home visits.
- » The session reinforced the importance of research as a constant focus in healthcare. The drive to generate robust evidence underpins all medical practices, ensuring that innovations are grounded in sound science.
- » The advent of robotic surgery is transforming cataract surgery, minimizing surgeon involvement during the procedure. Additionally, 3D printing significantly contributes to surgical planning, particularly in organ transplantation. In ophthalmology, this technology is used for corneal deviations, orbital wall reconstruction, and other ocular processes, reducing the reliance on traditional methods.
- » Virtual Reality is now the preferred platform for training medical graduates in surgery, offering an immersive and safe learning experience.
- » The session highlighted the availability of online learning content and patient information through the Sankara Nethralaya website. Additionally, www.ekalavya.org enables 5,000 registered users to access online classes and engage in live interactions with esteemed speakers, expanding access to knowledge and expertise.
- » Science and technology are driving innovation and simultaneously working to reduce the cost of patient care. This dual focus promises more accessible and affordable healthcare solutions.
- » The session emphasized the need to establish quality management systems for process analytics, ensuring that healthcare services meet the highest standards.

The future holds great promise, where advanced technology will enhance the quality of care and make it more accessible to all.

“A successful digital transformation roadmap: first, follow evidence-based medicine; second, involve employees.”

~Dr. Sheila John



Dr. K. R. Balakrishnan, Director, Institute of Heart and Lung Transplant and Mechanical Circulatory Support, MGM Healthcare

Dr. K. R. Balakrishnan shared the innovation in Pediatric Cardiology and Transplants with AI and the groundbreaking impact of automated image analysis with AI software, particularly in pediatric cardiology and transplant surgeries.

» One of the most significant challenges highlighted was the paucity of pediatric cardiologists. In an area where only two specialists are available to screen a staggering 12,000 deliveries a year, a potential crisis is looming. However, the event showcased how a transformative solution had been found through a collaboration with IIT Madras. Automated image analysis AI software filled the void, providing essential support in diagnosing and treating pediatric heart conditions.

» The software used is not only a diagnostic tool but also a game-changer in surgical planning. It converts conventional CT and MRI images into 3D models, allowing for meticulous sizing, location mapping, and the ability to resect donor organs without damaging vascularity. This

development is especially crucial in the case of pediatric patients, where specialized software can be costly and donor organs are typically suited for adults.

development is especially crucial in the case of pediatric patients, where specialized software can be costly and donor organs are typically suited for adults.

- » The AI software takes things further by predicting post-treatment outcomes. It does so by multi-scaling a digital model of the human cardiovascular system using extensive patient data. With 100,000 virtual patients created from 500 actual patient databases, this tool empowers doctors to tailor treatment plans to individual patients and predict outcomes, including the effects of treatment and pharmacodynamics.



Dr. Meenu Singh, Executive Director & CEO, AIIMS, Rishikesh

Redefining Healthcare with Technology and Drones, Dr. Meenu Singh shared her experiments with medical drones, shedding light on the transformative potential of technology and drones in healthcare.

- » Robots are increasingly becoming versatile healthcare allies, handling tasks from patient counselling to administrative functions like registrations. However, the enduring importance of the human touch in healthcare must never be underestimated. Technology should complement rather than replace this essential element of care.
- » In the terrain of Rishikesh, drones are actively breaking down barriers in healthcare. These aerial marvels are not limited to delivering medicines and vaccines, they are also proficient in collecting critical biological samples.
- » Medical drones extend beyond supply chain and access solutions. They can be instrumental in delivering life-saving medicines, vaccines, and even the collection of vital biological data.



“In the skies of healthcare, medical drones have proven their wings, piloting a successful journey in managing TB eradication and uplifting maternal and child health. As we look ahead, the sky’s the limit – with the potential for nationwide adoption, digital consultations, and drone-enabled supply chains making healthcare delivery more efficient and accessible.”

~Dr. Meenu Singh

Furthermore, their use in urban settings, especially at accident sites with traffic congestion, can mean the difference between life and death.

- » The Indian Council of Medical Research has issued comprehensive guidelines for using drones in healthcare, marking a significant stride in adopting this technology.
- » The Gulf region’s use of large drones for accident site evacuations serves as a model for the rest of the world. These remarkable machines have proven invaluable in emergency situations, underlining their potential to save lives in critical scenarios.



**Dr. Upasana Arora, Managing Director,
Yashoda Super Speciality Hospitals**

While illustrating the transformative impact of robotic surgery and Digital Health in healthcare Dr. Arora shared that:

» Robotic surgery is not about replacing surgeons but enhancing their abilities. It empowers surgeons to perform precisely, resulting in minimal blood loss, impeccable clinical outcomes, and smaller incisions. Patients

and surgeons both benefit from this cutting-edge approach.

- » Quick recoveries after robotic surgery offer advantages for patients and hospitals alike. Patients experience less downtime, and hospitals can optimize bed turnover, ultimately improving healthcare efficiency.
- » Physical visits to hospitals inherently carry the risk of acquiring infections. Digital Health is an ideal solution to reduce unnecessary exposure and minimize this risk.
- » As AI models continue to advance, there's a real possibility that they could augment or even replace radiologists in specific tasks, allowing these professionals to specialize further, such as in interventional radiology.
- » The first case of robotic surgery was undoubtedly a challenge. However, this historic case resulted in excellent outcomes, with the patient making a full recovery.

The future holds exciting possibilities for more efficient, precise, and patient-centered healthcare delivery.

“Summit like GDHS2023 plays a crucial role in disseminating knowledge and fostering the exchange of views and ideas, further fueling the progress of healthcare technology in our nation.”

~Dr. Upasana Arora

Mr. Navneet Daga, Sales Director, Cloud Security Business- India, SAARC & ME, Radware Ltd.

It's become clear that safeguarding the Digital Health revolution is paramount.

- » Security is no longer a peripheral concern; it has rightfully taken center stage in Digital Health. With patient data at the core of healthcare systems, ensuring robust security measures is not just a choice but a moral and legal obligation. The passing of the Digital Personal Data Protection Act (DPDP Act) has provided a legal framework to address patient data and consent management, setting the stage for comprehensive data protection.



- » Cybersecurity is no longer an optional add-on; it's an intrinsic component of any Digital Health implementation. Protecting against cyber threats is essential to maintain the integrity and confidentiality of healthcare data. The rise in cyber-attacks with increasing sophistication, including those targeting healthcare infrastructure, underscores the need for proactive cybersecurity measures.
- » The financial penalties associated with non-compliance can be substantial, and the damage to an organization's credibility and reputation can be irreparable.
- » The prevalence of data sharing through Application Programming Interfaces (APIs) was brought to the forefront. Even everyday activities like ordering food through apps like Swiggy and Zomato or booking appointments in hospitals involve sharing personal information via APIs. It illustrates the pervasive nature of data sharing in our digitally connected world.
- » APIs are essential for data exchange but also vulnerable to data breaches. Unauthorized access to APIs can lead to the theft of sensitive data without the user's knowledge or consent.
- » The event underscored the importance of maintaining 24x7 uptime to support critical patient care. Any downtime could have severe consequences in a healthcare setting. The shortage of skilled cybersecurity professionals was acknowledged as a significant challenge.
- » Among the key takeaways, the event highlighted Radware as a one-stop shop for addressing the security requirements of the Digital Health segment.

“Consent management is crucial in light of the new DPDP Act ...understand and appreciate the fact that security is very important when we talk about Digital Healthcare...consent management is very important part of The DPDP Act.”

~ Mr. Navneet Daga



Dr. Chandan Kumar, Scientist-C/Deputy Director, Medical Equipment & Hospital Planning Department, Bureau of Indian Standards

- » Dr. Chandan Kumar emphasized that BIS standards are enablers for healthcare innovation, not roadblocks. This perspective is crucial for fostering a culture of collaboration and compliance within the industry.



Day 2

- » It became evident that BIS standards are not merely bureaucratic requirements but the bedrock of a patient-centric healthcare system.
- » Standardization emerged as a key driver for interoperability and seamless integration of Digital Health technologies. This is especially relevant in the context of Electronic Health Records (EHRs) and the adoption of Clinical Decision Support Systems (CDSS). A standardized framework is essential to ensure that the right data is accessible and exchangeable, promoting more informed and coordinated care.
- » BIS standards facilitate global collaboration and alignment with international best practices. In an increasingly interconnected world, these standards serve as a common language that allows Indian healthcare to actively participate in global healthcare networks and research initiatives.
- » The National Digital Health Mission was highlighted as a pivotal initiative that aligns with BIS standards. It was suggested that the initial focus should be on consent management followed by content management, while maintaining a strong commitment to data privacy and security. These priorities reflect a forward-thinking approach to the digital transformation of healthcare in India.
- » BIS has 16 technical departments formulating standards across various areas, including medical devices and hospital planning. This multidisciplinary approach is essential for addressing the multifaceted challenges of modern healthcare.
- » The scale of BIS standards was truly eye-opening, with over 22,000 standards formulated, of which 1,500 pertain to medical devices and Digital Health. This emphasizes the comprehensive nature of BIS's work and the depth of its impact on the healthcare ecosystem.

BIS standards have the potential to not only elevate healthcare in India but also position the nation as a global leader in Digital Health and healthcare quality. It is a journey calling for active participation, collaboration, and a shared vision of a healthier and interconnected world..

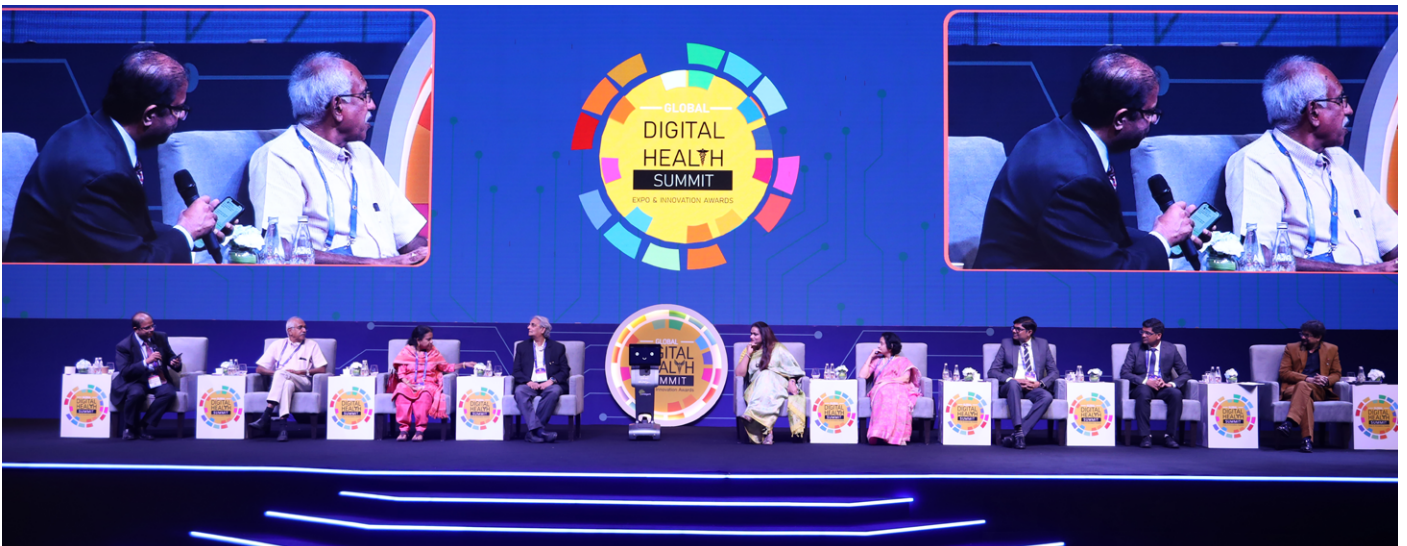
“From all the recommended standards, 466 are under mandatory certification... consider standards an enabler and not a roadblock and please get involved!”

~ Dr. Chandan Kumar



“As we move forward, let us collaborate to ensure that technological advancements align with our vision of a healthier, equitable and sustainable world. I look forward to adding value to each of you in your mission. Special thanks to Dr. Rajendra Pratap Gupta for inviting me to be part of this esteemed panel.”

~ *WellFie Health Robot*



Health Robot in Conversation as a Panelist

Bakul Patel: Let me ask robot to introduce itself. I can't say him or her, which has to be it. So, can you please introduce yourself?

Health Robot: Namaskar. It is my honor to have this opportunity to share my experience in the role of big data, AI and robotics. I am WellFie Bot, and I represent the combination of cutting-edge advancement in AI in healthcare innovation. I am glad to be part of this esteemed panel and share my experience of the advancement of robots in healthcare.

Bakul Patel: We are happy to have you here. What role can AI-driven tech and robotics play in smart hospital care and patient experience?

Health Robot: The exciting journey of AI in robots has started in smart healthcare. *I and my fellow robots take up roles within healthcare as patient buddies, from doctors' registration, vitals check, patient engagement, route navigation and remote ICU management. This collectively helps to enhance and support consistent patient experience.*

Bakul Patel: That is very insightful. While we use AI, the ethical issue is always a concern. What are your concerns and worries people have while considering the adoption of such technologies?

Health Robot: Oh yes, this is a real concern while we have been considered for deployment with you humans. I would like to reassure here that we are compatible with some of the latest data security control that takes care of patient privacy, data security and transparency in algorithmic decision making. This builds trust among both patients and healthcare professionals. Let our collective endeavor be to help build a sustainable AI-driven healthcare ecosystem.

Bakul Patel: That is fascinating and such an insightful remark. Can you provide some concluding remarks since you are the last speaker of the panel?

Health Robot: Wow, Wow! It was a nice experience to hear such diverse views on making us more sustainable. The future of AI in health technology holds immense promise for sustainable existence. By harnessing the power of AI in Robotics, we can create a healthcare ecosystem that is efficient, effective environmentally conscious and ethically grounded.

Bakul Patel: Thank you for providing your presence on the panel.

Session 5:

Pharmaceutical Industry in the Digital Age

4.30 pm -6.00 pm



“Anyone in the trade of medical devices, manufacturing, sale, distribution, etc. must look at the new regulation and then define a future course of action. The government’s vision is to replicate what has been achieved in the pharma sector within the MedTech segment.”

~ Dr. Rajeet Raghuvanshi



Dr. Rajeev Raghuvanshi,
Drugs Controller General of India,
CDSCO, Government of India



Mr. Sanjiv Navangul,
MD & CEO,
Bharat Serums &
Vaccines Limited



Mr. Sudarshan Jain,
Secretary General,
Indian Pharmaceutical Alliance



Mr. Achin Gupta,
CEO,
One India Business, Cipla



Mr. Suresh Pattathil,
President,
Organisation of Pharmaceutical
Producers of India (OPPI)



Dr. Krishna Iyer,
Professor of Pharmaceutical
Chemistry and IC Principal,
Bombay College of Pharmacy



Dr. Rajeev Raghuvanshi, Drugs Controller General of India, CDSCO, Government of India

» At the CDSCO, digital processes have taken precedence. The whole of the medical device segment has been brought under regulation to facilitate growth. Dr. Raghuvanshi addressed crucial aspects of medical device regulation, the role of the Central Drugs Standard Control Organization (CDSCO), and opportunities for domestic manufacturing.

- » The CDSCO is the central authority responsible for approving and regulating medical devices in India. All manufacturers and importers must seek approval from CDSCO to ensure compliance with Indian regulations.
- » Even if a medical device has been approved in foreign markets, it must also receive approval from CDSCO for sale and use in India. Foreign approvals do not automatically grant permission for Indian market entry.
- » A significant development is on the horizon. Starting on October 1, 2023, comprehensive regulatory changes will occur in the Indian medical device industry. These changes will have far-reaching implications for the manufacturers, importers, and stakeholders throughout the sector.
- » It was highlighted that a majority of medical devices used in India are currently imported. To address this reliance on foreign markets and boost the domestic medical device industry, the summit underscored the potential for local manufacturing. By manufacturing medical devices in India, businesses can reduce their dependence on imports and create opportunities for exporting Indian-made devices to other countries.
- » Compliance and strategic planning are key to the industry's continued growth and success.
- » The regulatory system for medical device is very important; hence, a separate group has been created to deal with medical device licensing going forward.
- » A unified portal is being commissioned that would bring all the regulatory systems (state, central, and all concerns) in one place. This will enable data access and support policy-making that works for the people for whom the policy is being formulated.
- » The Indian Pharmacopoeia Commission (IPC) has been digitized and will be made available for public access shortly.

“There is one leadership for drugs and another for devices, and both will converge at the DG- CDSCO level.”

~ Dr. Rajeev Raghuvanshi

Mr. Sanjiv Navangul, MD & CEO, Bharat Serums & Vaccines Limited

- » There are enough and more areas to start integrating Digital Health solutions – the willing intent is what is needed.
- » Emphasized the need for digital adoption across all companies.
- » Leveraged technology to engage all stakeholders in an industry facing a trust deficit.
- » Acknowledged the industry's past trend of negative Net Promoter Score (NPS) and the imperative for improvement.
- » Urged a shift from prioritizing profits to prioritizing patient well-being in drug pricing and decision-making.
- » It is suggested to set up social media for education to enhance industry transparency.
- » Advocated for quality compliance with regulators to build trust.
- » Encouraged pharma firms to provide personalized care through Digital Therapeutics (DTx).
- » Stressed the importance of transparency in all industry actions, avoiding unnecessary complexity, specially in creating awareness and promotion contents.
- » Called for a focus on preventive medicine to involve communities in better patient care.
- » Emphasized the importance of Patient-Reported Outcomes (PRO) and Real-World Evidence (RWE).
- » There is a need to accelerate efforts in building a better ecosystem, focusing on preventive medicine, community involvement, and transparency.
- » Concluded by emphasizing the necessity of a proactive approach to stay at the forefront and remain relevant in a rapidly evolving landscape.



“We cannot afford to lose more time. The industry needs to get awakened fully and take full advantage of this huge value-creation opportunity.”

~ Mr. Sanjiv Navangul



“Clinical trials, regulatory pathway, online health, pharmacy the foundation is laid for accelerated digital adoption and we must not derail now.”

~ Mr. Sudarshan Jain

Mr. Sudarshan Jain, Secretary General, Indian Pharmaceutical Alliance (IPA)

» Today, the pharma segment is at an inflection point, and the inflection is Digital Health driving innovation and quality.

» During the pandemic, India supplied medicines to 200 countries.

» Vaccine was developed in 12 months.

» The need to get into proactive health is urgent.

» Personalized medicine era is happening fast.

» Robotics, touchless plant, and POC should come up in the country.

» The role of the CDSCO has been pivotal in all these progressive changes.

Mr. Achin Gupta, CEO, One India Business, Cipla

» Today, the surface is being scratched in terms of integration of Digital Health solutions within the pharma industry.

» A massive number of undiagnosed respiratory illnesses remain.

» “Cipla Assist” leveraged the WhatsApp platform and have sustained two way engagements with 30000 healthcare providers successfully.

» CilaMed has also been added as another digital engagement platform.

» Breathefree Digital has been designed and deployed successfully to support patients as a companion, helping them in their entire journey.



“Digital Therapeutics is the new frontier in healthcare, and this is the journey we are on.”

~ Mr. Achin Gupta



Mr. Suresh Pattathil, President, Organisation of Pharmaceutical Producers of India (OPPI)

»The huge cost of drug discovery and risk associated with billion dollar investments can be dramatically improved with the investment in digital innovations we have seen.

»From finding out the target to conducting virtual clinical trials, accelerating the path to market and conducting real-world evidence capture beyond phase 4 all would be transformative in ensuring

patient safety and care outcomes.

- » In the realm of healthcare, AI has undeniably transformed patient empowerment, offering personalized insights based on real-world evidence
- » Pharma research can now use AI algorithms to facilitate drug discovery, rapidly identifying potential targets and expediting development timelines.
- » Pharmaceutical research thrived as AI accelerated literature reviews, predicted drug candidate success, and fostered secure data-sharing collaborations.

“The message is loud and clear that we need to invest more in digitalization process and adoption of cutting edge technologies.”
~ Mr. Suresh Pattathil

Dr. Krishna Iyer, Professor of Pharmaceutical Chemistry and IC Principal, Bombay College of Pharmacy

- » Digital has become part of everyday life, and in this context, it is pertinent to ask how we prepare pharma students and students in general for this transformative change.
- » There is a need to involve students in real-world problem-solving exercises and not get carried away by emerging jargon of AI/ML, VR, etc.
- » Nurturing the aptitude and attitude to take on challenges and apply these to address real societal needs is the real learning needed.
- » Should digital awareness and digital programs be part of the main course – and how much weight should be put on CAD, chemoinformatics and bioinformatics in the course for 4 years?



- » Are students and teachers interested, and if not, how to get them interested?
- » What are the opportunities, and should we wait for technologies to settle and then design the course curriculum?

“What technologies are appropriate for students to get trained and acquainted with is a good area to start curating, and there is first the need to train the trainer and reduce the gaps in learning from what is learned and what needs further learning.”

~ Dr. Krishna Iyer



Launch of Asia-Pacific DTx Leadership Alliance

The Asia Pacific DTx Leadership Alliance was launched by Ms. Mevish P. Vaishnav and Ms. Sakshi Pandita. They informed that this unique ecosystem is being created and will be open to membership for various categories– like professionals, students, researchers, startups, etc.

About Asia Pacific DTx Leadership Alliance:

- » In order to advance the adoption and integration of DTx solutions for improved patient outcomes, the Asia Pacific DTx Leadership Alliance is proposed as a collaborative platform aimed at fostering innovation, driving adoption, and leading the advancement of Digital Therapeutics across the Asia Pacific region.
- » The Asia Pacific DTx Leadership Alliance follows a unique ecosystem approach – specifically tailored to address the distinctive needs and challenges of the Asia Pacific region.
- » This alliance will remain membership-led, helping to shape this promising domain and enabling the Healthcare–Pharmaceutical industry to stay at the forefront of change.



“Asia Pacific DTx Leadership Alliance is the right step in the right direction, and we should move forward and even go beyond the Asia Pacific – Digital Health should have no limitations of boundaries.”

~Dr. Rajeev Raghuvanshi

“Digital Therapeutics is all evidence led, and it is this evidence that will improve care outcomes; in this regard, the Asia Pacific DTx Leadership Alliance will be the most significant thing we will have going forward.”

~Mr. Sanjiv Navangul



- » The Pharma Industry needs to move beyond the pills.
- » Doctors have to use digital tools to engage with patients in the digital age.
- » Unique ecosystem approach explicitly created to meet the unique needs of the Asia Pacific region.
- » To harness and nurture Digital Therapeutics for better health outcomes and redefine how to manage chronic patients.
- » The Asia Pacific DTx Leadership Alliance will serve as a robust network of practitioners, innovators, professionals and researchers and serve as the knowledge platform for cross sectoral and joint partnerships.
- » The Asia Pacific DTx Leadership Alliance is membered by world's leading authorities.

Valedictory Address by:

**Ms. Mevish P. Vaishnav, Group COO,
Digital Health Associates Private Limited**



- » Ms. Mevish expressed her gratitude to all participants for their presence during the insightful two days of the Global Digital Health Summit 2023. The culmination of a year's worth of preparation, involving the dedication of 150 individuals and a significant investment of half a million dollars, had made the Global Digital Health Summit a success. Under the leadership of Summit Chair Dr. Rajendra Pratap Gupta, the promise of inspiration, knowledge, and networks was delivered throughout the summit's deliberations.
- » Ms. Mevish had encouraged everyone to follow what Dr. Rajendra had said about taking immediate action and joining a 'Community of Practitioners' poised to capitalize on the opportunities presented.
- » Ms. Mevish urged each participant to engage with the Academy of Digital Health Sciences, the Health Parliament, and the International Patients' Union. The call was to share insights, contribute, and participate in courses, processes, and research work, taking monthly steps toward embracing Digital Health.
- » Together, the momentum would continue to build toward a future where Digital Health become an integral part of every specialty and hospital.



Innovation & Special Jury Awards

6:15 pm - 7:00 pm

Jury Members



Mr. Brian O'Connor

Chair, European
Connected
Health Alliance



Dr. Michele Y. Griffith

President,
International
Society for
Telemedicine and
eHealth (ISfTeH)



Dr. Archana Tapuria

Clinical Lead, Big
Picture Medical,
UK; Digital Health
Researcher, King's
College London



Dr. Bindu Dey

Former Secretary,
Technology
Development Board,
Department
Of Science and
Technology,
Government Of India



Prof. (Dr.) Jefferson G. Fernandes

Director, Education
Program,
International Society
for Telemedicine and
eHealth (ISfTeH)



Mr. Jeyaseelan Jeyaraj

Senior Director,
Health Sciences,
Asia Pacific,
Oracle



Mr. Jon Warner

US Ambassador,
European
Connected
Health Alliance



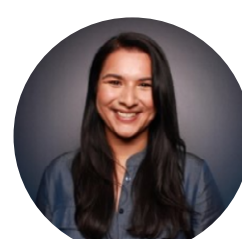
Mr. Nikhil Mathur

Managing
Director, India
& Head of Data
Partnership
& Innovation
- APAC, GfK



Dr. R. K. Srivastava

Former Chairman,
Medical Council
of India & Director
General of
Health Services,
Government
of India



Ms. Reena Sooch

Partner & Global
Head of Digital
Strategy, Day
One Strategy



Ms. Renuka Malaker

National Joint
Secretary
(Hon.), Multiple
Sclerosis Society
of India



Mr. Richard Dasselaar

Section Chair, AI,
Cardiology working
group, International
Society for
Telemedicine and
eHealth (ISfTeH)



Prof. S. Yunkap Kwankam

Executive Director,
International
Society for
Telemedicine and
eHealth (ISfTeH)

Special Jury Awards



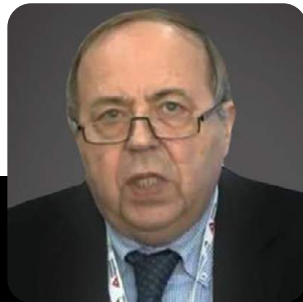
Winners

Global Leadership Award



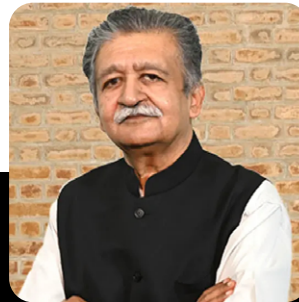
Ms. Ann Mond
Johnson

Mr. Frank Lievens



Lifetime Achievement Award

Global Pioneer Award



Mr. Harkesh
Mittal

Dr. Jitendra
Sharma



Global Pathfinder Award

Global Innovator Award



Dr. Arokiaswamy
Velumani

Innovation Award Winners





Open Health Stack

from Google Health



Around the globe in 90 minutes - **The Global Health Connector**



Side Events



Certified Digital Health Professional™ (Batch I) Meet and Greet



Expo Exhibitors





The Andhra Pradesh MedTech Zone (AMTZ) has emerged as a resilient sector amidst economic uncertainties while demonstrating its life-saving potential for the greater good of society.

AMTZ is a flagship initiative under the “Make In India” campaign. With its extensive 270-acre premises, it plays a pivotal role in reducing India’s dependence on imports.

AMTZ is a dynamic Hub that includes the Kalam Institute of Health Technology, AIC – AMTZ MediValley Incubation Council, Biovalley Incubation Council, Indian Biomedical Skill Consortium, and the National Medical Devices Promotion Council. This dynamic hub boasts facilities encompassing areas such as 3D printing, Electromagnetic Interference, Biomaterials, Medical Lasers, and more.

Digital Health solutions provided by AMTZ:

Cloud Physician: This platform facilitates remote monitoring and management of intensive care unit patients, enabling real-time data transmission, analysis, and consultation.

Teleradiology: Medical images, including X-rays, MRIs, and CT scans, can be digitally transmitted to radiologists for swift and accurate interpretation, transcending geographical barriers.

Telemedicine: Offering online doctor consultations and specialized prescriptions, telemedicine enhances healthcare accessibility and convenience, connecting individuals with medical specialists.

Digitized Health Monitoring Kiosk: This kiosk-based solution empowers individuals to perform basic health assessments and rapid blood-based tests, promoting preventive healthcare.

Thermalytix Sensing-Based AI Solution: Using thermal imaging for breast cancer screening, this AI-powered innovation enhances breast health awareness and early detection capabilities.

Medicine Vending Machine: Ensuring secure and efficient medication dispensing with real-time inventory tracking, this vending machine minimizes the risk of medication shortages.

All these advanced solutions adhere to ABHA standards, emphasizing their effectiveness, efficiency, and alignment with ABDM’s Digital Health programs.



Supporting Organizations



The healthcare ecosystem is witnessing a second wave of HIS-EMR transformation, driven by an explosion of technological breakthroughs, evolving patient demands. Hospitals and health systems of the future will need to manage customers and data many orders of magnitude higher than they do today to stay relevant. That can only be done by embracing a new breed of digital solutions which are built to scale, interoperable and constantly evolve, what we call as healthcare operating systems (HOS).

athmâ a new-age, healthcare operating system, offers a transformative shift from siloed conventional systems to a streamlined digital ecosystem. athmâ with its human-centric design has a very simple and user-friendly interface cuts down turn-around time for transactions, reduces the training hours and delights users.

In athmâ the traditional monolithic 'Computer-On-Wheels' EMR system for inpatients has been replaced by a mobile first, consumer-grade WhatsApp-like experience for clinicians to collaborate, communicate and work with the goal of making healthcare safer.

This app acts as a digital assistant facilitating real-time communication among care team members and provides live updates on reports and patient data through lab and radiology integrations. With real-time updates in athmâ, doctors have been able to save up to 40% of their time spent on ward rounds, and the discharge time has been cut by 50%.

athmâ's patient app and portal empower patients by enhancing their autonomy and transparency. Online registration, appointment-booking, check-in and payment can eliminate queues in the front office for OP consultations. It also gives patients access to their clinical records anytime and anywhere. athmâ nursing app automates data capture, and enable nurses to efficiently manage tasks such as handovers, forms and orders with the goal to put nurses back where they belong: by the patient's side.

Today athmâ powers 25 Hospitals, 24 Clinics, 34 Labs, and 19 Pharmacies. It is used by 4200+ doctors, 11000+ nurses and paramedics and we are constantly improving the product offering based on customer feedback. athmâ manages over 10 million patient records, and the patient app has over a million downloads.



A brief message from the CEO

At BPL Medical Technologies, we envision a world where technology serves as a catalyst for positive change in patient care. I strongly believe that every technological advancement brings us closer to a more accessible, efficient, and patient-centric healthcare ecosystem. The GDHS 2023 presents a platform for us to share insights, learn from peers, and collectively envision the next frontier of healthcare innovation. As we navigate the challenges and opportunities that lie ahead in this industry, let us continue to collaborate, learn, and innovate, ensuring that our collective efforts contribute to the betterment of global healthcare.

A brief intro of the Organization

BPL Medical Technologies Pvt. Ltd. is a leading Indian manufacturer of medical devices and solutions, committed to delivering high-quality medical technologies made in India, for India and the world. Having a rich legacy of over five decades, our focus on innovation has resulted in introduction of medical technology spanning across 6 verticals - Cardiology, Critical Care & Surgery, Mother & Child Care, Imaging, Homecare and Consumables & Accessories. Our mission is to empower healthcare professionals with reliable and advanced tools, ultimately improving patient care and outcomes.

Digital Health Solutions provided by the Organization

Our Digital Health infrastructure integrates a decentralized legacy of medical devices, providing a local healthcare network at enterprise and POC levels. At the enterprise, products like ECG, Patient Monitors, and Ventilators can be connected to our CNS Software for centralized patient information. Homecare devices meant to be used at home, can be linked to our "Be Well" App. We aim to integrate these elements into a clinical analytics engine. This will help streamline workflows, promote interoperability, and enhance collaboration among healthcare providers, even remotely.



Supporting Organizations



A brief message from the MD, IQVIA South Asia

Customers are always looking for ways to accelerate results and improve outcomes. But there is such a vast array of data, insights, stakeholders, and technologies, it can be hard to find the right solution or answer. It takes the right expertise combined with the right capabilities to make the right connections across the healthcare ecosystem. This is how IQVIA helps customers solve their challenges and drive healthcare forward.

A brief intro of the Organization

IQVIA (NYSE:IQV) is a leading global provider of advanced analytics, technology solutions and clinical research services to the life sciences industry. IQVIA creates intelligent connections to deliver powerful insights with speed and agility — enabling customers to accelerate the clinical development and commercialization of innovative medical treatments that improve healthcare outcomes for patients. IQVIA's insights and execution capabilities help biotech, medical device and pharmaceutical companies, medical researchers, government agencies, payers, providers and other healthcare stakeholders tap into a deeper understanding of diseases, human behaviors and scientific advances, in an effort to advance their path toward cures. With approximately 87,000 employees, IQVIA conducts operations in more than 100 countries.

Learn more at www.iqvia.com.

Digital Health Solutions provided by the Organization

IQVIA can help life sciences and healthcare organizations, at every stage of digital maturity, see where applying digital tools, techniques, channels and even treatments can close the gap between data collection and clinical decision-making. We provide several innovative solutions for our clients, covering healthcare professional engagement, patient engagement, comprehensive suite of healthcare provider solutions, commercial effectiveness and more. Trigger positive changes in care management and push healthcare further with IQVIA Digital Health Solutions.



Revolutionizing Healthcare: MGM Healthcare's Journey into Digital Transformation

At MGM Healthcare, we have embarked on a strategic journey that promises to redefine patient care, streamline our processes, and uphold a vigilant commitment to cost control.

A Comprehensive Integration Approach

Our approach to digital transformation is defined by a comprehensive strategy. It spans the Evaluation, Implementation, Adoption, and Sustenance of cutting-edge technology.

Privacy and Data Security

Our digital infrastructure has been fortified to adhere to the highest standards of privacy and data security, ensuring the utmost confidentiality of patient information.

Enhancing Clinical Care

Our digital tools have reshaped clinical care into a realm of efficiency, accuracy, and patient-centered services. The tangible result is a marked improvement in patient outcomes, driven by real-time data access and advanced diagnostics.

Strategic Cost Control

We've optimized resource allocation while preserving the highest standards of care quality, making healthcare accessible and affordable.

Empowering Healthcare Professionals

Our digital journey empowers our healthcare professionals by simplifying workflows and providing seamless data access.

Catalyzing Growth and Excellence

Digital transformation has become the catalyst for our growth, attracting patients seeking advanced, technology-driven healthcare services, and cementing MGM Healthcare as a beacon of excellence in healthcare innovation.

Expanding Our Reach

Our commitment to digital transformation goes beyond the hospital walls, encompassing smart ambulances and patient-centric applications that extend healthcare directly into the heart of our community.

Actionable Real-time Insights

Our integrated hospital dashboard equips stakeholders with real-time insights, fostering informed decision-making. It provides a comprehensive view of our operations, from occupancy rates to financial performance metrics, enabling proactive management.

Digital transformation is not merely a trend; it represents the commitment of MGM Healthcare to a future where integrated solutions enhance patient experiences, streamline operations, and uphold cost discipline.



National Health Authority

The National Health Authority (NHA) is an attached office of Ministry of Health & Family Welfare (MoHFW). NHA has been entrusted with implementation of two flagship schemes of Government of India namely, AB-PMJAY (Ayushman Bharat-Pradhan Mantri Jan Arogya Yojana) and ABDM (Ayushman Bharat Digital Mission). PM-JAY is the world's largest publicly funded health assurance scheme which aims to provide health insurance to 40% of India's population.

The Ayushman Bharat Digital Mission (ABDM) aims to create a Digital Health Ecosystem in the country wherein government is focused on providing the Digital Public Infrastructure for the healthcare sector to enable interoperability in the ecosystem.



A brief message from the CEO

At Radware, we live and breathe cybersecurity. Each day, our team works to earn the trust of organizations worldwide. Keeping them safe is our mission. To that end, we go head-to-head with politically motivated hacktivists, dangerous nation-state threat actors and other cyber attackers, protecting our customers' digital assets so they can work without interruption. Nowhere is this more important than in healthcare where technology and data accessibility are mission-critical for patient care. GDHS 2023 offers an ideal venue to host an important dialogue about defending healthcare's frontlines from cyberattacks. We look forward to working together to create a safer future for the industry and its patients.

A brief intro of the Organization

Radware® (NASDAQ: RDWR) is a global leader of cyber security and application delivery solutions for physical, cloud, and software defined data centers. Industry analysts like Forrester and Gartner have recognized Radware for its market-leading API and application protection, web application firewall, bot management, and DDoS mitigation solutions. Radware counts among its strategic partners market leaders such as Cisco, Check Point, Microsoft Azure and Nokia.

Digital Health solutions provided by the Organization

Radware offers 360-degree cloud application protection to address healthcare's complex security needs. Supported by extensive compliance certifications, including HIPAA and GDPR, Radware's solutions address data security in the cloud, including application protection and encrypted traffic inspection. Radware safeguards mission critical applications and sensitive patient data from breaches, bad bots, and API abuse. To ensure availability of medical apps and services, Radware offers advanced behavioral-based DDoS protection from network- and application-layer, zero-day, web DDoS, and burst DDoS attacks.



Supporting Organizations

Sir H. N.



A brief message from the CEO

Today, we stand at a remarkable juncture in the history of healthcare, where we are not merely witnessing change; we are architects of a profound transformation where we “Reimagining Healthcare for Tomorrow.” In an era of rapid technological advancements and evolving global challenges, the way we approach healthcare must evolve as well. It is our collective responsibility to envision and create a healthcare system that meets the needs of the future. The COVID-19 pandemic, which has shaken the world to its core, has exposed vulnerabilities in our healthcare infrastructure. It has underscored the need for resilience, adaptability, and innovation in healthcare. But, amidst these challenges, there is hope, and there is immense potential for change innovation and using technology to address the problems.

Brief on Sir H.N. Reliance Hospital

Sir H. N. Reliance Foundation Hospital is a 345 bedded quaternary care Hospital. The hospital's mission is to deliver safe, affordable and world-class healthcare to all sections of the society by using international evidence-based practices through highly-skilled professionals, well-trained staff and latest technology. It is the Largest Gold Certified Green Hospital in Mumbai.

Digital Health Solutions provided by Sir H.N. Reliance Foundation Hospital

1. At Sir HN Reliance, machines can analyse vast datasets to identify disease patterns and suggest personalized treatment options, improving patient outcomes. We have deployed close to 50+ different AI enabled devices, that continuously churn data to improve clinical outcomes.
2. Tele-ICU centers enable round-the-clock integrated medical management and cross-speciality consultation. We also have 5G enabled ambulances to start patient treatments and monitoring from the time of first contact itself.
3. With the recent introduction of ETHOS, a surface guided adaptive radio-therapy for cancer patients, we are taking cancer care for our patients to the next level. Pioneering adaptive radiotherapy in India, the hospital now delivers precision radiotherapy, powered by AI.
4. The RFH App and home-care facilitate service bookings, health tracking, and professional care management through remote monitoring and personalized plans.
5. We're developing a standardized technology stack for a vendor-agnostic EMR system, streamlining the adoption and upgrade of health tech solutions, aligning with government initiatives.



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