

# Child India

December  
2023



Monthly e-Newsletter of Indian Academy of Pediatrics



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DR VINOTH KUMAR R  
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## Editor's Note

Dear friends,

With the December issue of Child India, we convey Seasons Greetings and wishes to all for a Happy and Prosperous New Year.

December 1st, we celebrated World AIDS Day under the theme "Let Communities Lead". An opportunity to galvanise the community fight against HIV.



International Day of Disabled Person on Dec 3rd was organised with the theme "United in action to rescue and achieve the SDGs for, with and by persons with disability"

Constipation Awareness Month, a global healthcare event, is observed annually throughout December. Constipation affects 29.6% children and hence campaigns among public regarding the condition, its prevention and complications need to be conducted.

IAP Drug Formulary 2024 - the 6th hard copy edition - is to be released at PEDICON 2024 at Kochi.

This issue of Child India highlights digital awareness for pediatricians and we thank members of IAP CMIC for their expert submissions. This issue also felicitates Hidden Gems of West Zone. We, IAP OB and EB 2023, thank all our dear friends who have kept Child India alive and kicking through 2023.

We are all eagerly awaiting the results of IAP Awards 2023.

We congratulate Dr Upendra Kinjawadekar, Dr Vineet Saxena and their team 2023 for the good IAP work and wish Dr Basavaraja GV, Dr Yogesh Parikh and their team the very best for the coming year.

Wishing friends a great ending to 2023 and pray for cheer and joy in 2024.

Welcome to Kochi for PEDICON 2024.

Jai IAP!

**Dr Jeelson C Unni**

**Editor-in-Chief**

## President's Address

Dear fellow IAPans,

Greetings from CIAP!

We are happy to present the final December 2023 issue of Child India. This time our focus is on digitization, computerization of medical practice, use of apps, understanding various user-friendly technologies and preparing ourselves for the amazing AI.



Since the pandemic, we pediatricians have seen a massive upsurge in use of technology in our professional as well as personal life. OPD management, indoor patients, managing our accounts, staying updated, teleconsultations, patient experience and more issues plague the profession that needs to keep focus where it belongs: improving patients' lives. Coincidentally, last Friday, I happened to attend a preconference workshop on the similar topic at Vadodara organized by CMIC of IAP during Gujarat state conference. Dr Ajoy Kumar, Dr Samir Shah, Dr Yatin Mehta, Dr Sanjiv Goel and the team have prepared an excellent user-friendly module which is really the need of the hour. I heartily congratulate CMIC for that.

In this issue we'll dive into what technology looks like when applied to healthcare, its role and importance as well as gain some actionable insights into the ways we can make a positive change in our day-to-day practice so that it becomes beneficial for all concerned.

We also end our Diamond Jubilee series on hidden gems with West Zone. Do read about our own colleagues who have made some exceptional contributions in various fields and about their out of the box life. Let me thank them for sharing their inspirational stories. I also thank each one of you for making our IAP action plans reach in the remotest areas and for taking our SSS (Sankalp: Sampurna Swasthya) initiative spread across 25 states of the country.

Wishing you and your family a happy & healthy 2024!

**Dr Upendra Kinjawadekar**

National President 2023

Indian Academy of Pediatrics

## Secretary's Message

Dear Colleagues,

Greetings,

***"A few harmless flakes working together can unleash an avalanche of destruction."***

I am pleased to report that in the month of December, we have achieved immense milestones in our various projects and initiatives. We have successfully completed several workshops, campaigns, and events to promote child health and development across the country. We have also strengthened our collaboration with other organizations and stakeholders to advance our common goals and vision. IAP branches celebrated IAP designated weeks and days as per schedule.

We have conducted several meetings in the month of December which includes a physical meeting on Obesity ToT on 10th December and some via Video Conferencing that includes IAP VAC P-VAC on 11th December. Meeting with Kenvue on 12th December, CRC meeting on 21st December, Child Rights meeting on 27th December as well as UNICEF meeting on 30th December, 2023.

Along with this, Indian Academy of Pediatric conducted workshops on the following modules under the Presidential Action Plan 2023. 04 of "Hit The Bulls Eye- Clinical Clues" (CC); 02 of Haematology; 04 of "Infectious Contrum Case" (ICC); 05 of "Understanding Lab Test Rationale" (ID Ultra); 01 of "Life Beyond Pediatrics" (LBP); 03 of "Risk Stratification Assessment Clinical Monitoring Early Stimulation in High-Risk Neonate" (RACE); 01 of "Rheumatology Training Module" (RHYTM); 11 of "Good Practices in Pediatrics".

Regarding the ECD, 03 workshops in the month of December 2023 and the total number of workshop till month of November is 171. This month total of 19 Basic NRP and 13 Advanced NRP provider courses have been successfully conducted.

As an over view of the year 2023 we implemented 13 new academic modules in various subspecialties with its flagship activities and total of 537 workshops were conducted in this year. SSS (Sankalp: Sampoorna Swasthya) was other national initiative, focusing the communities and conducting it as school-based, innovative and holistic program with high focus on prevention of non-communicable diseases. More than 2 lakh beneficiaries have benefitted under this initiative in this year. Also successfully conducted 1 General Body Meeting, 3 Special General Body Meetings, 5 Executive Board meeting, 7 Office Bearers meeting and 131 other meetings in this year.

On behalf of IAP, I urge you to organize various activities in the best interest of the health and welfare of the country's children.

Long Live IAP, Jai IAP

Yours sincerely,

**Dr Vineet Saxena**

Hon. Secretary General 2022 & 23



## President's Engagements



Our respected ever charming president Dr. Upendra Kinjwadekar at Gujpedicon 2023 installing and inaugurating very important CIAP app “SISHU VIKASH” which will be available for all from 1st January at playstore.

Congratulations Dear President and thank you for gifting yet another very important gift to iapians. You are really energetic and enthusiastic with the same power as in the beginning of your tenure. Simply great.

## President's Engagements



Dr Tushar Shah taking over from Dr Chetan Trivedi as AOP Gujarat state President at Vadodara on 23-12-23 during the state conference

## President's Engagements



SSS at Ramkrishna Mission School, Agartala on 1-12-2023



East Zone Pedicon in Agartala on 2-12-23 in the presence of Chief Minister of Tripura Dr Manik Saha, Org Secretary Dr Jayant Poddar, VP EZ Dr Biswajit Mishra, HSG Dr Vineet Saxena and others



## President's Engagements



First National Obesity Conclave held in Mumbai on 10-12-23. Dr Vaman Khadilkar and Dr YK Amdekar summed up the entire day's proceedings with some practical take homes.

## President's Engagements



SSS held on 14-12-23 at Udgir



Inauguration of new IAP Branch at Udgir on 14-12-23 in the presence of Dr Jayant Waigaonkar, Dr Santosh Biradar, Dr Mahesh Bhatambre, Dr RD Patil, Dr Amol Pawar

## President's Engagements



NZ Pedicon in Jalandhar on 16-12-23 in the presence of Niti Aayog member Dr Vinod Paul

## President's Engagements



SSS at GAV Public School Kangra HP on 18-12-23 Dr Navendu Chaudhary,  
Dr Milap Sharma took special efforts in planning.

## President's Engagements



SSS at Amicus International School, Vadodara on 22-12-23

## President's Engagements



Pedicon 2024 final preparatory meeting at Kochi on 19.12.23

**President's Action Plan 2023****Hidden Gems - West Zone****Dr Mehul Mitra****Dr Mehul Mitra**

M. D. Ped ( uni first )

Consultant paediatrician , Rajkot 360007

Dr. Mehul Mitra, has contributed as the past president AOP Rajkot and has played a role as an organising secretary for state conferences and his involvement in numerous workshops and seminars.

He has put pioneering efforts in developing intensive pediatric and neonatal care in the Sourashtra region .

Dr. Mitra's commitment to public awareness is evident through his over 300 lectures, more than 200 articles in various magazines and a

published book on child care in Gujarati. "Shishu swashthya ni Tips"

On digital platform he has prepared a mobile application "Tips for child care Dr. Mitra" having more than 50 lectures on health problems including proper diet , nutrition, vaccinations and common diseases it's free of charge, this lecture series is also available on YouTube channel. Collective viewer ship of lectures had reached almost 50,000.

Beyond his medical work, he is actively involved in adolescent education in schools, colleges, university and social clubs.

He is contributing to society by his honorary services at an orphanage, central school management committee.

His main interest lies in developing health awareness and adolescent care in society.

**President's Action Plan 2023****Hidden Gems - West Zone****Dr K M Mehariya****Dr K M MEHARIYA**

Prof, HOD Ped department of Dr. MKSMC, Ahmedabad

1. Served for 32 yrs.at Medical College of Gujarat.
2. Established 100 Bedded NICU at BJMC.3.Provision of Surfactant,Ivig,Fact-8, Albumin, Blood & Components, Iron Chelators Free of cost .,MCI Inspector,
4. Running NGO -Sarvamangal Education and Charitable Trust with provision of Free Notebooks,Bags,Compass, Tution Class.
5. Many TV, Radio talks, Newspaper Articles for Public Awareness For Immunization,ORS, neonatal care & Anemia.

Deeply Interested in Drawing, Melodious songs, Singing which kept my BP, Sugar Normal.



**President's Action Plan 2023****Hidden Gems - West Zone****Dr. Samir Shah**

Dr. Samir Shah is a practising pediatrician and ped. endocrinologist based at Surat, Gujarat. He is a professional painter too, making paintings since 4 decades. He is a versatile artist, making landscapes, human and animal portraits, sculpture paintings, wall paintings, surrealistic, spiritual and abstract paintings. He has done many solo and group exhibitions. You can see his collection on [dr.samirshah.surat](http://dr.samirshah.surat) and [beyondimagination999@instagram](https://www.instagram.com/beyondimagination999). Dr. Samir Shah is also an accomplished singer. He not only sings filmy songs, but he has many self created songs to his credit. His famous song on daughter " Mari Dikari " can be watched on [samirshahsurat@youtube](https://www.youtube.com/channel/UCsami1999)

## President's Action Plan 2023

### Hidden Gems - West Zone

#### Dr. D. M. Popat



DR. D. M. Popat, Jamnagar (Gujarat)

Dr. Popat has published 11 books including 8 books for pediatricians- Popat's Pediatrics on phone part 1 to 8 which are very popular in pediatric fraternity.

Dr. Popat is a dedicated private practitioner, practicing in the periphery not attached with any teaching/non-teaching medical institute. His perseverance, love for reading and large pool of patients have been the trigger in realising the dream of publishing Popat's Pediatrics on Phone Part 1 to 8 and he will publish part 9 and 10 in first half of year 2024. The books are based on telephonic conversation with her daughters -

a unique example in the field of literature. He has lived up the philosophy "The world does not pay for what person knows but it pays for what a person does with what he knows". He has proved that a lot of experience-based informative data is available from patients treated by practicing pediatricians in the periphery, often in resource-scarce environment. The basic attributes of his books, i.e. brevity, clarity and problem-oriented approach are commendable. His every book is like desktop companion for everyone practicing pediatrics. He has attempted to cover a wide range of topics within the limited scope of the book every-time he published a new book, including general pediatrics and subspecialties. He has enjoyed mixing critical care with general pediatrics-only settling in for the best he has to offer. His fifth volume is on neonatology and 8th volume is a "guide to parenting in modern era." He has labelled his books as books of the students, for the students and by the students. One can understand the labour, passion and pain behind such a mammoth task, with busy private practice and no infrastructure like medical college. Dr. Pramod Jog, president IAP 2016 has labelled his books as "The rainbow of Pediatrics".

## President's Action Plan 2023

### Hidden Gems - West Zone

#### Dr. Satish Patel



Dr. Satish Patel is not only a leading pediatrician of Morbi (Gujarat) but also an altruist, author, orator, and social activist. It is quite true that his pen has written many prescriptions but along with this, his pen has also travelled parallel on the path of literature and authorship.

He has authored many books in Gujarati language. Two of his distinguished books have been awarded and honoured by Gujarati Sahitya Parishad & Gujarat Sahitya Academy. He has been contributing as a columnist in the widespread Gujarati news papers since long.

One facet of his personality is concern with social service especially in the field of social & public health as well as overall health of children and regarding knowledge of parents about rearing and caring of child. He organizes Ideal Mother Contest, Parenting seminars and much more. In his above initiatives thousands of mother participate.

He strongly & truly believes that, each and every doctor has hidden and latent capacity to become an author. Each patient comes with heart throbbing story. Doctor has not to deal only sympathetically but apathetically too.

## President's Action Plan 2023

### Hidden Gems - West Zone

#### Dr Nikhil Kharod Karamsad



#### Dr Nikhil Kharod Karamsad Gujarat

Dr. Nikhil Maheshchandra Kharod is a Paediatrician who has been working in rural areas of Central Gujarat since 1984. He passed his MBBS and then MD from Seth G S Medical College & KEM Hospital, Mumbai. Even as a medical student, he was keenly interested in rural health and primary health care.

After obtaining MD in Pediatrics in 1982, letting go an opportunity to settle down in USA with a green card, he left Mumbai and joined Tribhuvandas Foundation – a Non-governmental Organization working in Central Gujarat, in 1984, where he worked till June, 2023. He has also worked as Professor & Head (Pediatrics) & Head (Extension

Programmes), Pramukhswami Medical College, Karamsad and has vast teaching experience (UG / PG teaching 1989-2017 / 1999-2017). He is an excellent trainer of the grassroot workers with very good command over Gujarati. He has also prepared training modules for grassroot workers in Gujarati.

For his exemplary work in rural areas, he has been recognized at State & National level by the National Neonatology Forum (Gujarat State Chapter) in 2001, Rotary Club of Anand Mid Town (2000) and the Association of Inner Wheel Clubs in India in (2022).

He is a practising Gujarati Poet & writer, 'Visharad' (Graduate) in Indian Classical Music (Vocal) and a trained practitioner of Patanjali Yoga. He has so far published three books in Gujarati - a collection of poems titled 'Kim Adhuna?' which was adjudged the best first collection of poems in Gujarati in the year 1993 ('Jayant Pathak' Puraskar); Gujarati translation of 'Corona Virus', originally written in English by Dr Rajesh Parikh (published in 2021) and his autobiography (in Gujarati) titled 'Potaanee Vaat' (2023). He has also composed / rendered spiritual poems written by Gujarati poets Narsimha Mehta & Sundaram.

**President's Action Plan 2023****Hidden Gems - West Zone****Dr Hiren Shah****Dr Hiren Shah**

With an exceptional academic background, Dr. Hiren Shah is a successful pediatrician in Ahmedabad, running his Shaishav Children Hospital for 40 years.

Renowned as an avid traveler, he's explored more than 50 countries, sharing his experiences through blogs, travelogues and photo essays.

A serious photographer, Dr. Hiren has held solo exhibitions and earned international awards.

His home, Houseum, is a vast repository of thematic collections, housing almost 10,000 artifacts. The Lock Museum, part of Houseum, boasts around 3,000 locks, including the world's largest collection of about 500 trick locks.

EnigmaTic, a unique Puzzle Museum within Houseum, features 2,000 artifacts, showcasing complex mechanical puzzles and enigmatic subjects. As the sole Indian in the Metagrobologists community for 15 years, Dr. Hiren has delivered deliberations at various international conventions.

In 2012, India Today's Travel Plus recognized Houseum, Dr. Hiren, and his wife Dr. Namita in the '60 Most Interesting People and Places in the Country.'

## President's Action Plan 2023

### Hidden Gems - West Zone

#### Dr Jayashree Deshpande



#### Dr Jayashree Deshpande

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I'm Dr Jayashree Deshpande from Mumbai. I am extremely passionate about teaching Self Defence Awareness techniques to young teenagers.

I would like to share my story...

My daughter cracked the most difficult exam USMLE & was ready to move to New York for further studies. I was happy & excited too. But as a mother I was scared as I read about many safety issues that every country deals with..

We started 5 steps action plan ahead of her departure date.

1) We started sensitising her in case of emergency situations.

2) We talked about many situations wherein the dangers are prevalent. How she should understand the body language, use her intuition, her sixth sense in de-escalating the situation.

3) We discussed how she can use her everyday items for her own protection.

4) We along with her understood the legal aspects in self defence & sought the emergency helpline number of USA & INDIA .

5) With help of local Taekwondo trainers we taught her 10 different techniques, wherein she can use her own body as a weapon to protect her dignity.

I thought that every girl, every woman & actually everyone in the country and in the world should be made aware of these SELF DEFENCE TECHNIQUES .

We developed a module of Self defence awareness techniques.

Many girls from Adivasi area from Palghar district benefited from this program.

Many schools were involved in this training programme.

Nurses training was also incorporated in this project .

Many Nursing schools supported this project wholeheartedly. This project received loads of appreciation and recognition from the organisers and participants.

We have made videos for situational awareness & also distribute a small booklet for the students. If anyone would like to join /arrange this workshop please contact me.

**President's Action Plan 2023****Hidden Gems - West Zone****Dr Bakul Javadekar**

- \* Dean, SBKS Medical College, Pipariya, Waghodia.
- \* Professor of Pediatrics at SBKS Medical College at Pipariya, Waghodia from 2019 to 2022.
- \* Professor of Pediatrics at Baroda Medical College from 2008 to 2019.
- \* Besides academic interest in other areas.
- \* Write blog <http://drjavadekarinsights.wordpress.com> titled "Beyond rules of thumb".
- \* Singing - Regularly performs on stage at various occasions. Has won the annual best singer trophy when in college.
- \* Reading about various subjects such as history, evolutionary psychology, music, movies, behavioural science, politics etc.
- \* writes monthly article on various academic and other subjects in the monthly bulletin of AOPV Vadodara Branch.

## President's Action Plan 2023

# Hidden Gems - West Zone

## Dr Arun Gachale



### Anything is possible

I'm Dr Arun Gachale.

Yes, I am saying anything is possible. I, Dr Arun Gachale, Paediatrician by profession & practising in Pimpalgaon, Baswant, 30 km away from Nashik, where no any facilities like swimming pool, running track, proper gym, sports coaching and motivation for running, cycling or swimming. I was practicing Pediatrics since 20 yrs. Very workaholic. I had no time for fitness. In 2009, there was swine flu epidemic and I was victim of that. After 20-25 day's of full recovery I started walking and slow running. After few days I developed interest in running and started running half marathon and then marathon. I contested in Tata Mumbai Marathon several times.

After a while, running became monotonous and so I added cycling in my schedule.

I was inspired by our cyclist friends like Mahajan brothers, our own Dr Ramakant Patil sir, Dr Sham Chaudhary sir who were RAAM finishers. I developed good skill in running and cycling. Our friend Dr Datta Patil sir from Malegaon shared one link of Goa Half Ironman which was going to be held in Oct 2019 which was first event in India.

Swimming was my hurdle because I had phobia of water since childhood. I learned pool swimming and later open water swimming in high tides in the sea and got bitten by Gelly fish.

I finished Goa Half Ironman on 20 Oct 2019 and jumped in full Ironman category. I had successfully completed 3 I'M races in Australia, Germany and Kazakhstan respectively.

During Goa Half Ironman event met an accident during cycling and my left knee was badly hurt and with limping leg I finished that event. I also completed Australia IM (1 Dec 2019) and Germany (29th Aug 21). 14 August 2022 my 17 yr old son Avishkar and I both completed that event, and he became the youngest Ironman. It was the first event in which father and a minor son, both completed the race and we could proudly wave our tricolour.

So my message to all my dear friends is that NOTHING IS IMPOSSIBLE. Thank you....

Dr Arun Gachale, Pimpalgaon, Baswant, Nashik 9850869397.

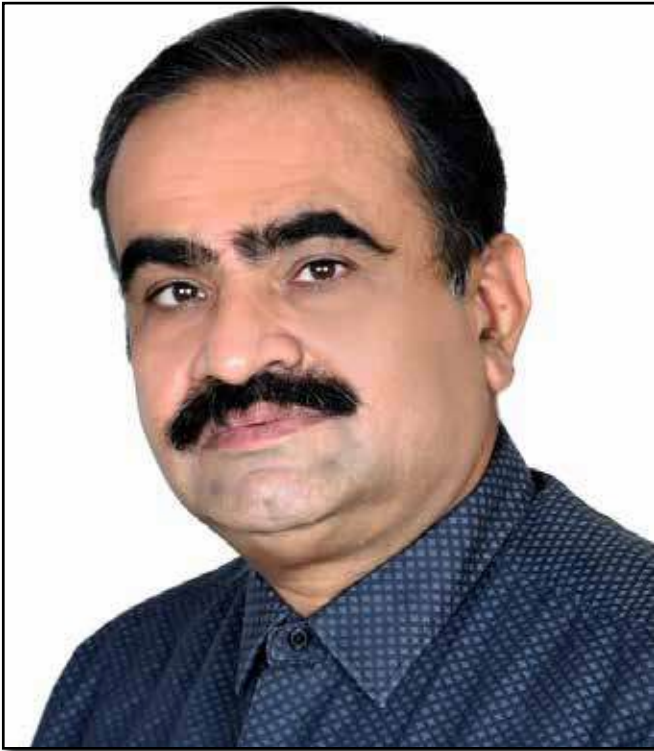




## President's Action Plan 2023

### Hidden Gems - West Zone

#### Dr. Rajesh Maaheshwari



**Dr. Rajesh Maaheshwari** began his impactful career at G.K. General Hospital in Bhuj in August 1994. During his 1.5 years there, he encountered numerous cases of children with severe illnesses and branding marks from the Vagad, Bhachau, and Rapar regions. These marks, a result of an age-old tradition, were often found on sensitive areas of the body. Dr. Maaheshwari was deeply troubled by this practice, which compounded the suffering of these young patients.

In February 1996, Dr. Maaheshwari started working at Masoom Children's Hospital in Gandhidham and also visited Bhachau and Rapar as a visiting pediatrician. His exposure to patients from the Vagad region, many bearing branding scars, deepened his resolve to address this harmful tradition. He found that branding, often performed as a supposed cure or preventive measure for various illnesses, only worsened the children's conditions.

Determined to combat this practice, Dr. Maaheshwari teamed up with local journalists in 1997, highlighting the dangers and inhumanity of branding. His efforts started gaining traction, drawing attention

and support from educated and sensible citizens. Despite facing significant opposition and even threats, he relentlessly campaigned across villages and towns, educating people about the harmful effects of branding and advocating for its eradication.

Dr. Maaheshwari's campaign eventually caught the attention of national media, and the issue of branding in the Vagad region became a topic of national concern. His efforts were further bolstered when the National Human Rights Commission issued a notice to the Gujarat Government in 2011, prompting legal action against the practice.

By 2014-15, branding had almost ceased in the Vagad area, marking a significant victory in Dr. Maaheshwari's long and challenging campaign. Despite the toll on his personal and professional life, his dedication never wavered, driven by a clear, selfless goal to protect children from this inhumane tradition.

In addition to his fight against branding, Dr. Maaheshwari has been a vocal advocate for child health and nutrition. He played a crucial role in launching the KUPOSHAN MAHAABHIYAAN in 2015 with the Gujarat Government to combat malnutrition in children. He ran various campaigns untirelessly to propagate the importance of Breastfeeding over the past 26 years. His extensive work in vaccine advocacy and public health education further underscores his commitment to child welfare.

For his relentless service, Dr. Maaheshwari was honoured with the "Unsung Heroes of AOP-Gujarat" award at GUJPEDICON 2022 in Ahmedabad and "IMA Gaurav Award" by IMA Gandhidham in 2023. His journey is a powerful example of how individual action can bring about significant social change, challenging and altering deeply ingrained social practices.

## President's Action Plan 2023

# Hidden Gems - West Zone

## Dr. Hemant Joshi

### Dr. Hemant Joshi :Law maker

Dr. Joshi proposed maternity leave of 6 months. IAP passed it. It became law.



On Dr. Joshi's advice Anganwadies have a kid food corner with snack filled transparent jar. Children sit there, eat & improve.



Brought Hindi names on medicines. Prescribes medicine in Hindi/Marathi



Maypharm writes brand name Gastrofloran in 6 languages.

Health Education is most cost effective way to improve health. Dr. Joshi spent all his life & money on health education in many languages. They have child care books & videos in many languages. Gave books to iap members in all Pedicons.

विश्व स्वास्थ्य संघटन के  
**आदर्श उपचार**  
बीमार बातकों की सेवा ऐसी करें।  
अस्पताल में और घर में।



Translated "WHO pediatrics book in Hindi & Marathi. They are on WHO website. Gifted 10,000 copies to public sector.

Translated dietary guidelines for Indians in Marathi.



With friends, wrote a book "Amrut" Family health guide in 10 languages. It is based on National family health survey 5. Proposed, "Put manickens in car. Go places & teach NALS, PALS.



Prof. Dr. Suvarna Devi of Odisha did it.



Publishes Marathi health annual magazine in Marathi for 30 years.

7 Research Publications from private practice. : 6 in Indian Pediatrics . 1 in Journal of Tropical Pediatrics December 2016.

Natural gas is called as liquid gold. Dr. Joshi got piped natural gas for his Palghar district.



Patent: Has 1 patent. For using nebulizer or a fish tank air compressor motor, to give compressed air for CPAP.

Tells to put a needle in trachea in neck and give surfactant if intubation is not possible in a breathless preterm newborn.

Wears T shirt half pant as ideal dress for warm India. Writes Health messages on shirt.



Dr. Archana & Hemant Joshi did all this together. A book is being written on their works. A rare honour.

## Entrenching digitization for improved healthcare delivery

**DR. SAMIR SHAH**

Consultant Pediatrician, Vadodara  
Chairperson CMIC- IAP, Website convener of IAP  
samirhiral1@gmail.com



Advanced medical technologies, disruptive innovations, and digital communication have become inseparable from providing best practice healthcare under the term 'digital health'.

Digitalization affects all areas of society, including the health care sector. However, the digitalization of health care provision is progressing slowly compared to other sectors. In the professional and political literature, physicians are partially portrayed as digitalization sceptics.

Results of the third, 2022 study by The American Medical Association on physicians' motivations and expectations for the adaptation of digital clinical tools show that a growing number of doctors see a definite advantage in the use of digital tools, adoption of such tools has grown significantly among all physicians regardless of gender, specialty or age. By 2022, some 93% of physicians claimed they see some (49%) or definitive (44%) advantage in digital health tools. Most physicians listed "improved clinical outcomes" and "improved work efficiency" as top motivators, 88% of doctors listed these two as very/somewhat important.

The adoption of telemedicine by doctors in India at the peak of the pandemic across the three major regions of India, according to analysts, was 80 percent in North India, 50 percent in the South and West, and 35 percent in the East. Although the country is easing out of the Covid-19 phase, digitization has shown how seamless and convenient healthcare delivery can be. While enthusiasm for virtual visits has increased

significantly in the past three years, it remained mostly stagnant in other digital solutions (like remote monitoring and management, clinical decision support, patient engagement and so on).

Healthcare professionals see and feel the need to switch to digital but often they don't have tools for this shift. To be able to catch up with technological advancements, the structure of healthcare must change. It's an entire cultural and physical transformation of the whole healthcare sector.

The recent launch of the Ayushman Bharat Digital Mission (ABDM) gives impetus to the drive for healthcare digitization in India. By creating a platform for different healthcare stakeholders, the ABDM strives to boost the 4 (four) key scales for measuring healthcare delivery, namely, quality, transparency, accessibility, and affordability. The complexities of medicine make it untenable for different players to work in silos. Hence, these digital platforms are expected to provide the needed push and catalyst for the wholesome digital revolution India needs in its health sector.

SMART MEDICAL PRACTICE concepts refer to the incorporation of technological advancements and innovations into healthcare facilities to enhance the efficiency, accuracy, and quality of patient care. It aims to create more patient-centric, integrated, and efficient healthcare experiences by leveraging new technologies and strategies. Overall, it enhances the quality of care provided to the patients and increases the efficiency of healthcare delivery.

## Why Digitalize accounting & finance for Paediatric Practice?

**DR AJOY KUMAR**

Hon. Secretary. Computers and Medical Informatics Chapter of IAP  
Hyderabad

Financial Literacy Activist for Pediatricians



**DR. SANJEEV GOEL**, Gujarat & **DR SUBHENDU DEY**, W Bengal

### Introduction

Are you still collecting cash and keeping in drawer or pocket?

Are you are collecting cash at the reception and maintaining physical register, all at discretion of receptionist?

Are you not giving receipts to all?

Are you not accepting all modes of payments?

Are you storing the cash collected in some corner of house? Are you only earning and do not know what to do with money? Are you not knowing the concept of your money earning for you? Are you not having any plans for retirement?

If answer to Any is Yes

Then this article is for you!

In recent times of technological advances, we the doctors need to get exposure of account keeping and financial planning skills in best possible digital way.

Our aim is to create awareness and make you learn the nitty gritty of Accounting and Finance in smart ways.

This is just an awareness attempt to stimulate doctors to make the practice smarter

using the digital platform and in no way a comprehensive tool

### Key Points

Focus on Digital Receipts

Managing Your Finance

Smart Financial Decisions

Smart Investing Tools

Retirement Plans

If you are

Still collecting cash and keeping in drawer or pocket?

Collecting cash at the reception and maintaining physical register, all at discretion of receptionist?

Not giving receipts to all?

Not accepting all modes of payments?

Why Should I

BUT WHY?

I AM VERY COMFORTABLE AND DOING THIS FOR YEARS!

CHANGE IS THE ONLY THING WHICH IS CONSTANT AND YOU NEED TO UPGRADE

## Advantages of Digital Record of Receipts

There is less chance of your staff keeping money in their pockets. There is transparency.

The digital records cannot be tempered esp. if software has trace edit receipt function or edit only with authorization

Easy record keeping

Auto total of money collected under various heads Auto total of receipts through cash/online/ other modes Auto 3-C generation

Keep record of outstanding receipts

## Advantages of Digital Record of Receipts

Easy analysis

Day wise/Month wise collection vReferring doctors wise collection vVaccines collection

You can get all information at the click of the button

### You require:

Computer, all in one printer, Internet & Pediatric software with accounting module QR Code for accepting payments.

UPI ID dedicated to receive payments v Pos Machine/SMS digital collection Payment gateways.

Current Account dedicated for professional income and expenses.

### Methods

The pediatric software will have the patient's details.

The accounting part will help in recording all the receipts.

The details of the items for which fees is collected can be recorded in software like Consultation, vaccinations, details of room stay

charges, etc

The method by which payment done can be recorded in the software like cash/NEFT/UPI/ Credit cards.

Unpaid bills can also be recorded

3-C Register can be automatically maintained and printed

Accepting Fees Digitally

QR Code

Payment accepted are without any bank charges Payment directly into bank account Notification can be received by self or employee Your bank will provide you with QR Code

UPI id

It can be self-generated or created via bank UPI app

The money is credited in bank account without any charges

Accounting of Income from Clinic/Hospital

Prepare a 3-C register daily which is mandatory by Income Tax(will be taken care by software)

Deposit the collected cash periodically in the bank for easy accounting

The money received digitally get deposited in the bank account instantly

Usually, intimation by Email/SMS is received for all the payments received digitally on daily basis

Bank account statement accessible through internet banking as and when required for accounting

Accepting Fees digitally

NEFT/IMPS

Keep Bank details of clinic/hospital handy for NEFT/IMPS. Can be printed and given to

reception staff

Point of Sale (PoS) popularly known as card swipe machine

Bank charges applicable from zero to 2.5 % depending upon the type of card swiped

Patients tend to pay easily as they get benefits and reward points Amount collected gets settled in the ac in the next working day

Expenses: Digital Ways

All the expenses of the Hospital/ Clinic should be done by digital means for easy accounting

(The expenses may be Staff salaries, Electric bills, corporation taxes, payment to suppliers, Vendors other utility bills etc.)

Desirable Mode of payments: UPI transfers (Paytm, Phonepe, G pay etc.), NEFT/IMPS

Add the beneficiaries in the bank account

Ideally this account should be the same in which one is collecting digital payments

Avoid payment through cheques as far as possible as it is bit difficulty to track as disbursement/ debit period may vary

## Income Minus Expenses

All the surplus money which remains in the bank after deducting expenses from the income will be available to you for

Wise and Smart planning should be done to park this hard-earned money to grow in best possible way

Our Ultimate Goal Should be

A Stress free Long and Healthy life with the rider of Financial Independence

## Steps for Financial Planning

Ensure regular Income and yearly increments vBudget allocation

Term Insurance Plan v Health Cover

Prof Indemnity Insurance

Fixation of Life Goals

## Fix Your Goals

Buying a House

Children Education v Children's Marriage

Wants (Int. Holidays/Lux cars) v Retirement

Capex for Business expansion v Special Individual goals if any

## How to Go Ahead

Hire a Professional Financial Planner (advisable)

Can do it yourself on different Fin tech Platforms

## Prerequisites

Internet Banking accounts (at least 3 accounts)

One Saving Bank Ac for Investments (linked to Demat ac for Stocks and Mutual funds, Bonds etc)

One Saving Bank Ac for Personnel Use and

One Current Ac for your Professional use

A Demat Ac via New age stockbrokers e.g. Zerodha, UpStock, Groww etc or through the bank SBI smart, HDFC Securities, Axis Direct and more

Demat ac opening is completely paperless nowadays (E KYC with Aadhar authentication)

NPS account (optional) for Retirement annuity Can open account via online mode

Go Digital to Achieve Your Goals: Just a Thought

## Investible Surplus (Income minus Expenses) to be utilized in different Asset Classes (Approximate returns)

- Equity (12 to 15 %) Stocks/ Mutual funds
- Govt and Corporate Bonds ( 7 to 9 %)
- Govt Securities (6.5 to 7.5 %) PPF, SSY, NSC.
- KVP
- FD (5% post tax)
- Real Estate
- Gold (physical or Paper Gold/ Gold Bonds)

## Allocation in different asset classes is based on your goals and risk-taking capacity

- Saving Ac (2.5%)
- Emergency Fund: 6 to 8 times your monthly  
expense
- Can be in Saving AC or Liquid fund or ultra-  
Debt mutual fund

## BUT the FINAL call for Investment to be taken by YOU and your financial Planner

Must Have Apps to Invest and Review Your  
Investment and Assets

Banking Apps Yono SBI, Axis Mobile,  
I-mobile, InstaBiz etc.

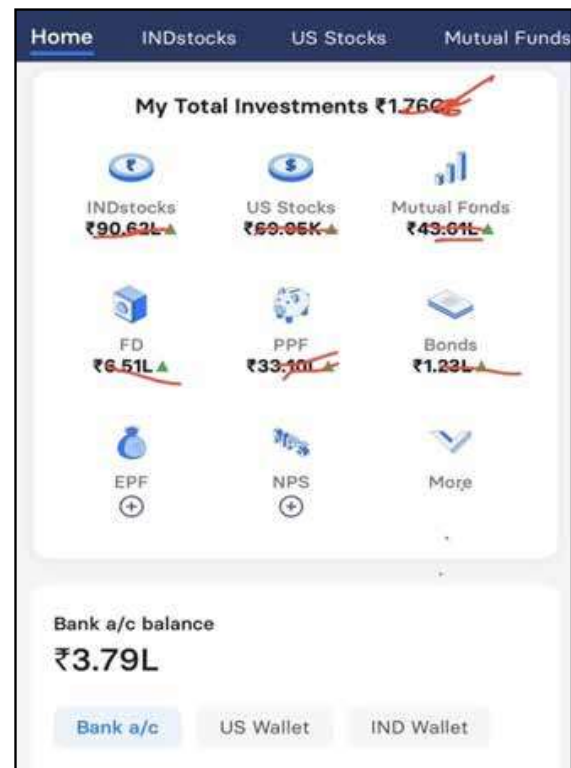
UPI enabled payment apps Phonepe,, Gpay,  
Bhim upi , Paytm, WhatsApp etc.

Apps where u can see all your assets  
summary eg. Indmoney, Scrip box etc. for periodic  
reviews

CAMS, Groww,MFU and or Diff Mutual Fund  
apps. Can purchase Redeem with just few clicks.

AXIOS and other budgeting app to track  
Expenses (they read the SMS inbox /and or Email  
for compilation)

## Useful Apps Interface



## Income Tax Agendas

Self (e filing in income tax portal) AIS,TIS ,

Prefilled details tracking PAN

Professional Assist offline or Online platforms (Taxbuddy.com, clear tax, Quicko etc )

Old Tax versus New Tax regime (No deductions allowed) suited for income of more than > 15 lacs

Balance sheet need to be submitted along with IT returns

Need to maintain Separate Book of Accounts for Clinic expenses/ Utility ( May be asked to produce by IT upon notice )

Or Else opt for Presumptive Taxation Scheme under sections 44AD, 44ADA and 44AE of the Income Tax Act Individuals (income up to 75 lacs for professionals) are not required to keep or display books of account, nor are they obligated to have them audited

Better seek advice from Professional Accountant/CA/IT lawyer

## Retirement Plans

FIRE (Financial Independence Retire Early)

### How much corpus you need to retire (Brief overview)

Feed data in Excel Sheets and know your cash flows

\* 360 X Monthly expenses at age 60 yr. = Corpus

Health cover 10L + 50L top up Insurance

Be debt – free, Real Estate free

Opt for old IT regime if income <15L- deductions allowed

File ITR compulsory

Registered Will

## Take Home Points

Digitalize your practice

Enhance your basic knowledge about managing finances Manage your money earned and saved

After certain age, money should work for you, rather you working for money

Have well planned insurance plans Plan retirement

## Most Important

Plan to spend to achieve your goals, rather than just save for the next generation.

*(More on Financial Literacy for Pediatricians see my Youtube Channel @drajay56 and @iaptcb for previous live recorded talks)*



## Medical Photography and its importance

**DR MANOJ V. AMBWANI**

MD Pediatrics

Past President & Secretary CMIC

Past President and Secretary AOP Vadodara



Medical photography is a specialized field of photography that involves capturing images of medical conditions, surgeries, and other healthcare-related subjects for documentation, diagnosis, research, education, and communication purposes. This type of photography requires a combination of technical skill, medical knowledge, and sensitivity to patient privacy.

Here are some aspects of medical photography:

### Patient Privacy and Consent:

Respecting patient privacy is paramount in medical photography. Photographers must obtain informed consent from patients before taking any photographs.

Images should be de-identified whenever possible, removing any personally identifiable information to protect patient confidentiality.



*Patient with pimples but identity covered*

### Clinical Documentation:

Medical photographers often work closely with healthcare professionals to document clinical cases, surgeries, and treatment outcomes. Some of the doctors themselves love photography and they themselves click the photographs. You need high end cameras for the same but nowadays with advanced mobile phones – one can use them in an emergency to click the pictures.



*Appendicectomy scar very nicely done*

High-quality images play a crucial role in medical records, helping to track progress, assess treatment effectiveness, and support research.

### Educational and Training Purposes:

Medical photography is used in educational materials for training healthcare professionals, including textbooks, presentations, and online resources.

Some of the rare diseases and conditions

The detailed images help in teaching anatomy, surgical techniques, and various medical procedures.



*Quinsy*

### Research and Diagnosis:

Medical images can aid in research studies by providing visual evidence of medical conditions and treatment outcomes.

Diagnostic imaging, such as X-rays, CT scans, and MRIs, is a related field that involves capturing internal images of the body for medical diagnosis.

### Forensic Photography:

In forensic medicine, photography is used to document injuries, crime scenes, and evidence. This documentation is crucial for legal purposes.



*Stabbed wound*

### Aesthetic and Cosmetic Surgery Photography:

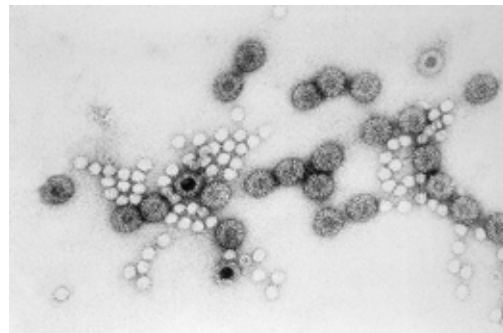
In the field of plastic surgery and dermatology, medical photographers may capture before-and-after images to document the results of cosmetic procedures.



*Liposuction surgery*

### Endoscopy and Microscopy Photography:

Images captured through endoscopes or microscopes are used for diagnostic and educational purposes in fields like gastroenterology, pathology, and microbiology.



*Rotavirus under Electron Microscope*

### Telemedicine:

With the advancement of technology, medical photography plays a role in telemedicine by allowing healthcare professionals to remotely assess and diagnose conditions based on visual information.

Photographers in this field require a solid understanding of medical terminology, anatomy, and various imaging techniques. They must also adhere to ethical guidelines and standards

to ensure patient confidentiality and privacy. Additionally, knowledge of lighting, composition, and camera equipment is essential to capture clear and accurate images.

### **Microscopy:**

Pathologists use microscopes to examine thin sections of tissues, cells, or other specimens.

Various staining techniques are employed to enhance the contrast and visibility of specific structures or cellular components.

### **Microscopic Photography:**

Specialized cameras are attached to microscopes to capture high-resolution images of the microscopic specimens.

Photomicrography involves the use of a camera, often digital, to document the details observed under the microscope.

### **Digital Imaging:**

In modern pathology, traditional film-based photography has largely been replaced by digital imaging systems.

Digital cameras connected to microscopes allow for immediate capture and storage of high-quality images.

### **Documentation and Diagnosis:**

Medical photography in pathology serves as a means of documenting pathological findings for patient records, research, and educational purposes.

Pathologists may capture images of specific cellular features, tissue structures, or pathological abnormalities.

### **Telepathology:**

With advancements in technology, digital images of microscopic specimens can be transmitted electronically for remote consultation. This is known as telepathology.

Telepathology facilitates collaboration among pathologists, enabling them to share images and discuss cases even when geographically separated.

### **Education and Training:**

Photomicrographs are used in medical education to illustrate textbook materials, presentations, and online resources.

Training programs for pathologists often include the interpretation of microscopic images, and photographic documentation aids in this process.

### **Research:**

Pathologists and researchers use photomicrographs in scientific publications to share findings with the medical community.

These images contribute to the visual evidence supporting research studies and medical advancements.

### **Quality Control:**

Photography is essential for maintaining quality control in pathology labs. Images can be used to track variations in staining, identify equipment issues, and ensure consistency in specimen preparation.

### **Pathology Conferences and Tumor Boards:**

Pathologists may present cases during conferences or tumor boards, and photographic documentation of microscopic specimens is often an integral part of these presentations.

In summary, medical photography in pathology involves capturing images of microscopic specimens to document, diagnose, educate, and contribute to medical research. It plays a crucial role in advancing our understanding of diseases and facilitating communication among healthcare professionals.

Medical photography in surgical conditions

is a valuable tool used for documentation, education, research, and communication among healthcare professionals. Here's how it is employed before and during surgical procedures:

### **Preoperative Photography:**

**Patient Consent:** Before any photography, obtaining informed consent from the patient is crucial. The patient must understand the purpose of the images and how they will be used.

**Documentation of Preexisting Conditions:** Photographs may be taken to document the patient's preexisting condition or injury. This serves as a baseline for comparison post-surgery.

**Surgical Planning:** Surgeons may use images to plan the surgical approach and discuss the procedure with the surgical team.

### **Intraoperative Photography:**

**Surgical Field Documentation:** Photographs are taken during the surgery to document the progression of the procedure. This includes images of the surgical field, specific anatomical structures, and any unexpected findings.

**Training and Education:** Intraoperative photography is valuable for training purposes. It allows surgical trainees and medical students to understand different surgical techniques and procedures.

**Communication Among Surgical Team:** Images can be shared in real-time with other members of the surgical team, facilitating communication and decision-making.

**Legal and Ethical Considerations:** Photography during surgery must adhere to legal and ethical guidelines. Patient privacy is paramount, and images should not reveal identifiable features without proper consent.

**Research and Case Studies:** Intraoperative images contribute to research and case studies. They provide visual evidence of surgical techniques, outcomes, and complications.

### **Postoperative Photography:**

**Documentation of Surgical Outcome:** Photographs are taken after the surgery to document the immediate postoperative state. This is important for tracking the success of the procedure and identifying any issues.

**Comparison with Preoperative State:** Postoperative images are compared with preoperative images to assess the effectiveness of the surgery and to document any changes.

**Patient Education:** Postoperative images can be used to educate patients about the surgical outcome, including what to expect during the recovery process.

### **Telesurgery and Remote Consultation:**

**Telemedicine and Telesurgery:** In some cases, surgeons may use medical photography to facilitate telemedicine or telesurgery, allowing remote consultation and collaboration with other experts.

### **Surgical Conferences and Training Programs:**

**Case Presentations:** Surgeons often use photographs of surgical procedures in conferences, seminars, and training programs to share their experiences and educate other healthcare professionals.

**Quality Improvement:** Images may be used for quality improvement initiatives within healthcare institutions, helping to assess and enhance surgical practices.

Overall, medical photography in surgical conditions serves as a visual record that aids in patient care, education, research, and the continuous improvement of surgical techniques. Strict adherence to patient privacy and ethical standards is essential in this context.

Medical photography in the context of skin conditions is an important aspect of dermatology

and various medical specialties. It involves capturing detailed images of the skin to aid in diagnosis, treatment planning, monitoring disease progression, and documentation for medical records. Here are some key aspects of medical photography in skin conditions:

### Diagnostic Documentation:

Medical photographers, dermatologists, and healthcare professionals use photography to document the appearance of skin conditions at the time of diagnosis.

Close-up images help capture details such as lesions, rashes, pigmentation, and other characteristics that are essential for accurate diagnosis.



*Measles rash*

### Baseline Imaging:

Baseline images are taken to establish a starting point for monitoring changes in the skin over time. This is particularly important for chronic conditions or diseases with a variable course.

### Treatment Monitoring:

Progress photos are taken during and after treatment to assess the effectiveness of therapeutic interventions. Comparing before-and-after images helps healthcare providers evaluate the response to medications or procedures.

### Educational Purposes:

Medical photography is used for educational materials in dermatology. Images of various skin conditions are included in textbooks, presentations, and online resources to aid in teaching and learning.

### Telemedicine:

In the era of telemedicine, skin condition images can be shared remotely for virtual consultations. Dermatologists can assess skin conditions and provide recommendations based on photographic evidence.

### Cosmetic and Aesthetic Procedures:

Medical photography plays a role in cosmetic and aesthetic medicine. Before-and-after images are often taken to showcase the outcomes of procedures such as dermatological surgeries, laser treatments, and cosmetic injections.

### Research and Clinical Trials:

Researchers use medical photographs to document skin conditions in clinical trials. Visual evidence is crucial for assessing the impact of new treatments and interventions.

### Wound Care:

In wound care, photography is used to monitor the progression of healing. Images help healthcare providers track changes in wound size, color, and overall appearance.

### Forensic Dermatology:

Medical photography is employed in forensic dermatology for documenting injuries, identifying skin conditions in forensic cases, and providing visual evidence for legal purposes.

### Patient Education:

Medical photographs serve as a visual aid for patient education. Dermatologists can use images to explain the nature of skin conditions,

treatment options, and what patients can expect during their healthcare journey.

### **Dermoscopy:**

Dermoscopy is a technique that involves using a specialized magnifying lens and light source to examine skin lesions. Medical photography is often used to capture dermoscopic images, aiding in the diagnosis of melanoma and other skin disorders.

It's important to note that patient consent and privacy considerations are fundamental in medical photography, and images should be handled in accordance with ethical standards and regulations. Clear, well-lit, and properly documented images enhance communication among healthcare professionals and contribute to the overall quality of patient care in dermatology.

# Navigating the Jungle: A Guide to Medical Apps for Pediatrics

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In today's tech-driven world, information and tools are just a tap away. This also applies to the realm of healthcare, with a plethora of medical apps emerging to empower parents and providers in child health. But with so many options, navigating the app world can be overwhelming. This article aims to guide you through the essential and trusted medical apps for pediatrics, catering to your professional needs.

These can be discussed as follows:

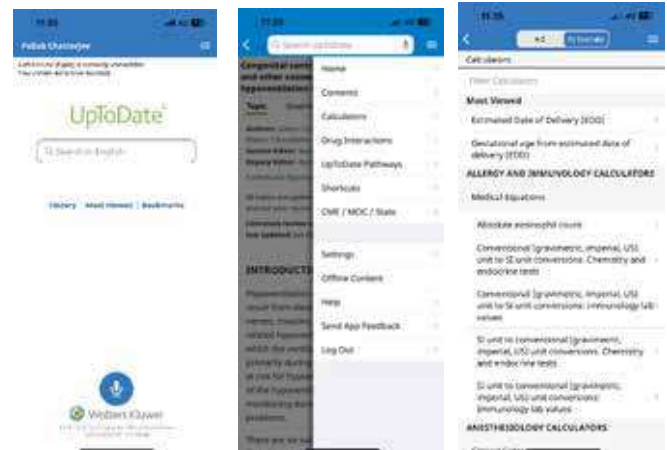
- Clinical Decision Support Systems
- Medical Calculators
- Indian apps and other useful apps
- Podcasts
- Journals and Ebooks

## Clinical Decision Support Systems:

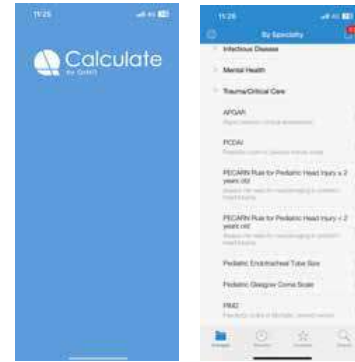
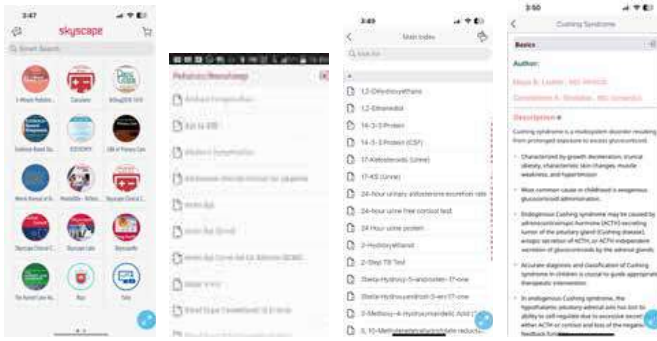
These are 'all-in-one' apps that help in guiding healthcare professionals through differential diagnoses and treatment options based on symptoms and patient data. The following are some of these apps

**UpToDate:** This is a paid app, that can be got at a discount through the Indian Academy

of Pediatrics. It has extensive and updated information of various conditions, including differential diagnoses and current management. There are detailed medical calculators and the included drug formulary is by Lexicomp.

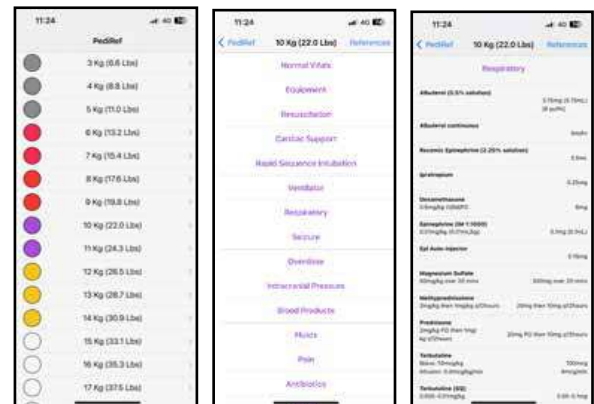
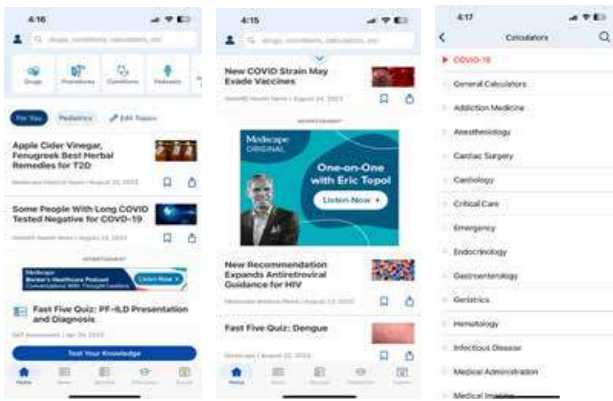


**Skyscape:** This is one of the oldest such apps, which is free to download and has parts that are free and parts that are paid. Of the free apps of the most useful is Mobile DDX, which is an app for differential diagnosis, based on the time-tested Diagnosaurus. The other useful apps that are free to use are the drug formulary, Skyscape Rx, the laboratory data, Skyscape Labs, and the medical Calculator. Useful paid apps for the pediatrician are the Harriet Lane Handbook and the 5-minute Pediatric Consult.



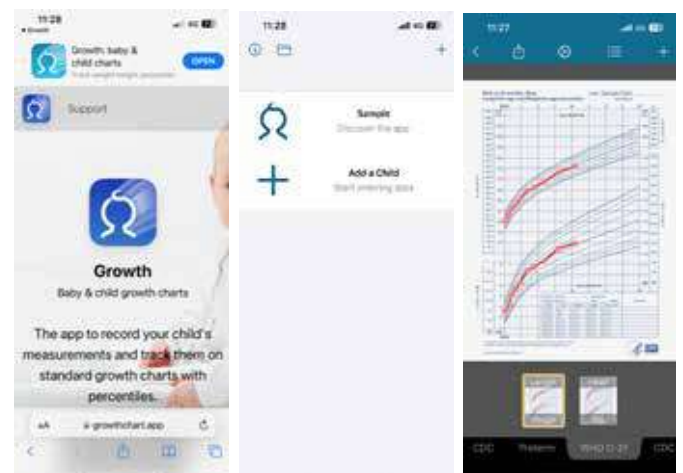
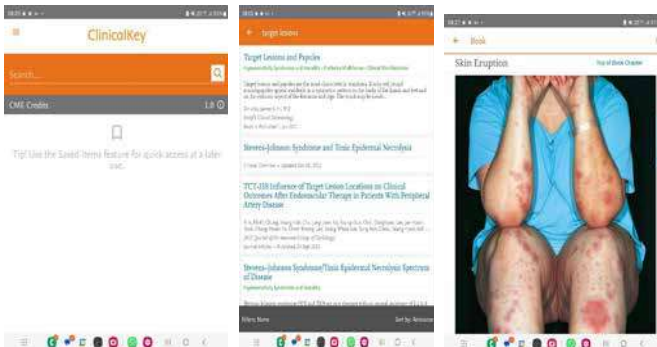
**Medscape:** One of the most commonly used apps that is free to download and use, Medscape has one of the most elaborate drug formulary, clinical conditions and calculators. It has regular CMEs and a huge repository of podcasts.

**Pediref:** This free app is meant to be used in the ER for easy calculation of various doses, according to the weight, at the fingertips.



**Clinical Key:** This is a fully paid app from the house of Elsevier, that has differential diagnoses, CMEs, and a large collection of books and journals for reference at the 'point of care'.

**Growth charts:** This is a very useful app that has all the standard growth charts, like WHO, CDC & Fenton charts for preterms. It is free to use for the 1st child, but to add a second child, it needs to be purchased. However, if the first child's data is deleted, it can be reused again and again, free of charge.

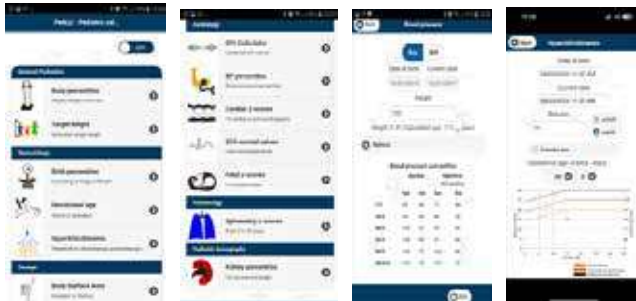


## Medical Calculators and converters:

**Calculate by QxMD:** This is a free app that has a large number of useful calculators for clinical use.



**Pedz-Pediatric Calculator:** This is a free pediatric calculator that provides quick access to essential calculations like body surface area, oxygen saturation, and medication dosages.



**Pedi QuickCalc:** This is another free to use app, where a large number of drug doses are calculated on entering the weight of the child. It also features various other calculators like BMI, BP percentiles, IV fluids and immunisation charts.

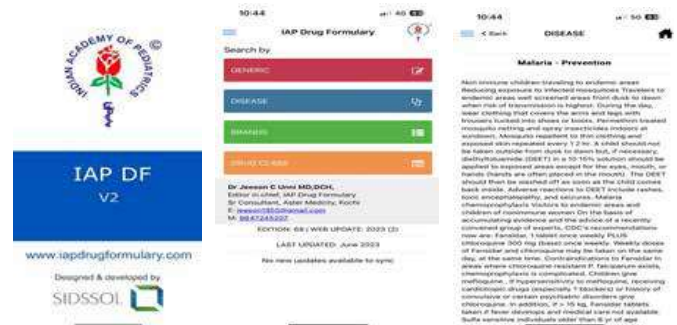


### Indian apps:

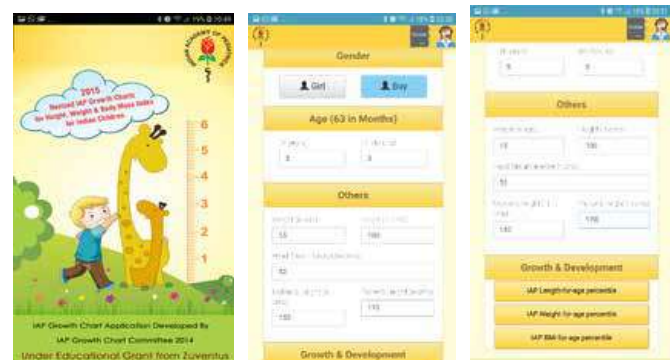
One of our IAP members, **Dr Satish Deopujari**, has developed a large number of apps that are free and very popular in the West. One of the most useful among them is the ABG app that calculates the type of acid-base disorder and analyses the same. Other useful apps by him are calculation of IV fluids for dehydration, an ABG book, etc.



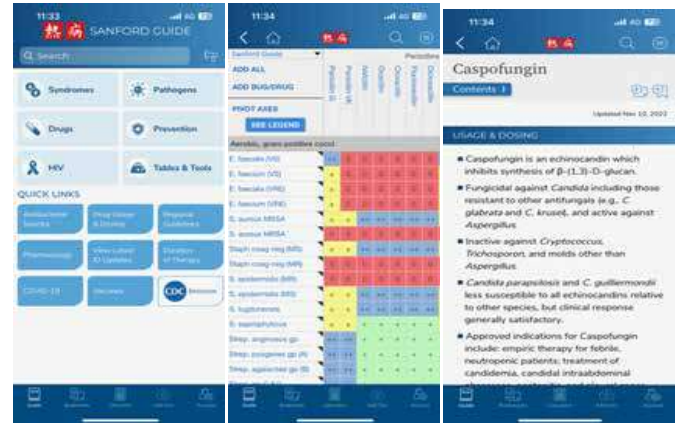
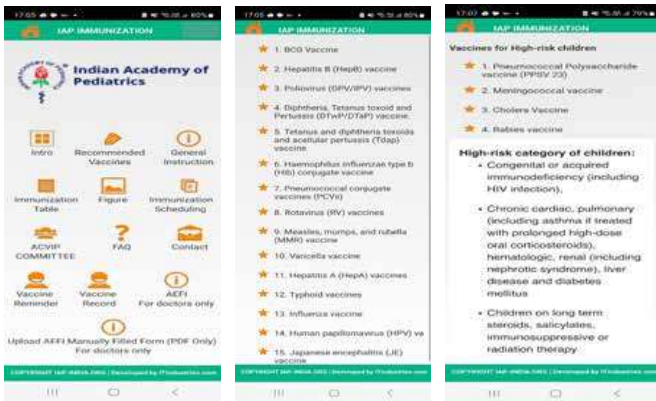
**IAP Drug Formulary:** The second online drug formulary available exclusively for pediatrics, other than the BNF, this is a flagship product of the IAP CMIC group available for the first time free of charge to all the IAP members and thereafter for a nominal fee for any further devices. It not only has a huge compilation of drugs, but also a large number of disease states have been discussed. Under the editorship of Dr Jeeson Unni, this is updated at regular intervals.



**IAP Growth Charts:** This is a very useful growth chart app developed by IAP and is based on the IAP standards.

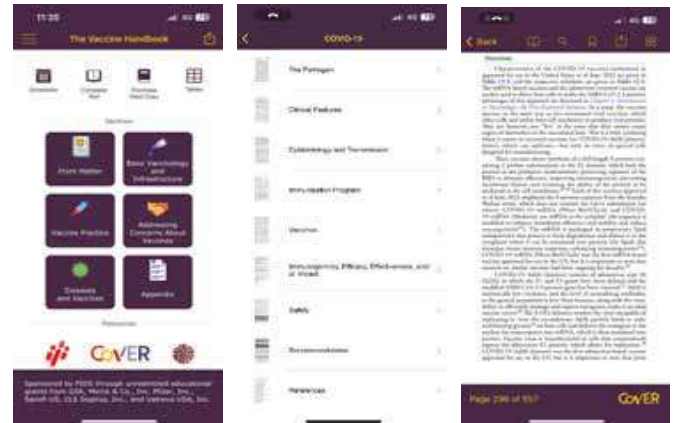


**IAP Immunization app:** This was developed by the ACVIP based on the ACVIP recommendations of 2018 – 19. This is yet to be updated to the current version.



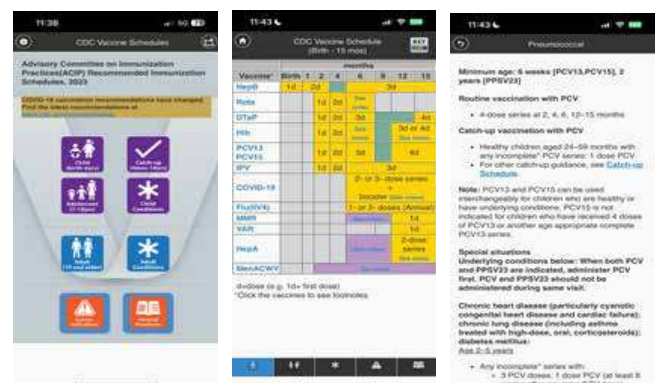
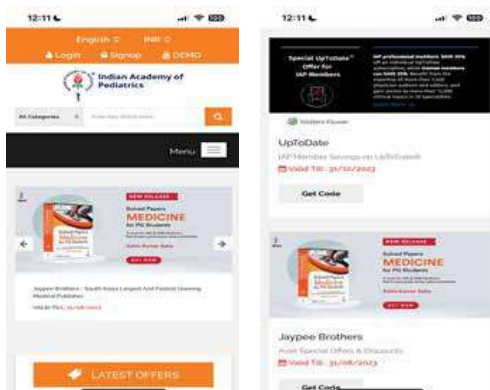
**IAP CPR app:** This has been developed recently by the IAP ALS-BLS group based on the BLS training

**The Vaccine Handbook:** This is a free to download handbook on vaccines that gives detailed information on the same.



**IAP Pedcard:** This has been developed by IAP that has a large number of discounts and other benefits for our IAP members.

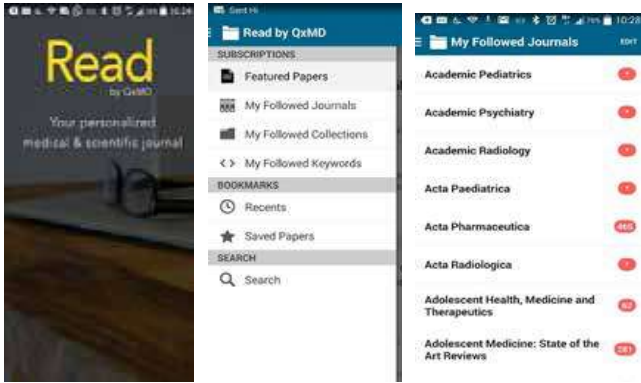
**CDC Vaccine Schedule:** This is a free use app that is regularly updated with the current ACVIP recommendation.



### Other useful apps:

**Sanford Guide:** This is a paid app regarding antimicrobials and their uses.

**Read by QxMD:** This is a free to use app where a list of journals can be subscribed and downloaded for reading. It updates the articles and journals according to your interest the moment there is any new issue released.

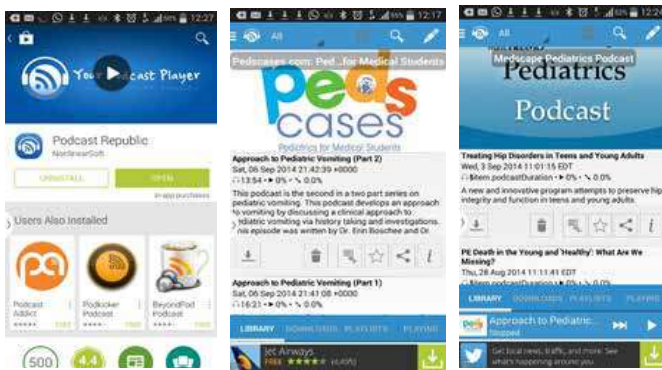


environment friendly, takes up less space, are widely accessible and are interactive. The two most common readers are the Adobe Acrobat, Kindle, iBook and the Google Playbook. The currently most popular formats are epub and pdf. There are a large number of free ebooks available for download from various websites, as well as a huge collection of paid books. Invariably the ebooks are available at a much cheaper price compared to the printed books.

**Podcasts:** Podcasts are ready for download multimedia audio or video files. The term came from iPod and broadcasts, and are in the MP3 format. These files or collection of files are accessed via syndication feeds through RSS readers and so unlike broadcasts they are not necessarily streamed at a certain time but rather can be subscribed to and accessed anytime using our device. NEJM for example some offers headlines and news in the form of podcasts and RSS feeds.



**Conclusion:** Medical apps are not replacements for professional medical advice. They are meant to assist in clinical decision making and need to be used wisely. Choose apps from reputable sources like medical institutions or professional organizations, and attention should be paid to the privacy and security features.



**E books:** These are books available in the electronic format for referencing on the handheld device at the point of care. These are

This is just a starting point, and the world of pediatric apps is constantly evolving. Be sure to stay updated on the latest offerings and use them responsibly to navigate your journey with confidence.

# How to Conduct an Interactive Online Quiz During a PowerPoint Presentation

**DR GAURAV GUPTA**

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EB Chandigarh – 2024  
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Additional inputs from ChatGPT 4.0, Images by Dall-E (AI)



## Introduction

In the dynamic world of healthcare, engaging and educating both peers and patients effectively is crucial. As a medical professional, you often find yourself in situations where you need to present information compellingly. Integrating interactive online quizzes into your PowerPoint presentations can significantly enhance the learning experience, ensuring your message is not only delivered but also retained.

This article will guide you through the initial steps of creating an interactive quiz

within a PowerPoint presentation, specifically tailored for medical professionals. We'll cover the importance of interactive learning, selecting the right tools, and setting up the foundation of your quiz.

## Understanding the Importance of Interactivity

Before diving into the technical aspects, let's acknowledge why interactivity matters, especially in medical presentations. Interactive elements like quizzes:

1. **\*\*Boost Engagement\*\***: They keep the

audience attentive and involved, which is essential in conveying complex medical information.

2. **Enhance Retention**: Active participation helps in better retention of the material presented.

3. **Facilitate Instant Feedback**: For educators, it's a valuable tool to gauge understanding and address misconceptions immediately.

### Choosing the Right Tools

There are several tools and platforms available that seamlessly integrate with PowerPoint to create interactive quizzes. Some popular ones include:

- **Kahoot!**: Known for its user-friendly interface and engaging format.

- **Slido**: Offers real-time polling and Q&A sessions, easily embeddable into PowerPoint.

- **Mentimeter**: Great for creating interactive presentations with real-time voting. The scoring system is innovative too!

- **Classpoint.ai**: Great Integration and easy to use features when using Powerpoint

Choose a tool that aligns with your presentation's objectives and your audience's technological comfort level.

My current personal choice is Inknoe's ClassPoint.ai. Inknoe's ClassPoint.ai interactive quiz system represents an innovative approach in the realm of educational technology, particularly for enhancing engagement and interaction in presentations, including those in medical and academic settings.

### Key Features and Benefits:

1. **Integration with PowerPoint**: ClassPoint.ai's seamless integration with PowerPoint makes it an excellent tool for educators and presenters who are already familiar with Microsoft's presentation software.

This integration allows for a smooth transition between traditional slides and interactive elements.

2. **Real-Time Interaction**: The system's ability to facilitate real-time quizzes and polls can significantly boost audience engagement. This is particularly valuable in medical education, where instant feedback can help in assessing comprehension of complex topics.

3. **Diverse Question Formats**: Offering a variety of question types such as multiple choice, true/false, and short answer can cater to different learning styles and keep the audience engaged. This diversity is essential for maintaining attention in detailed medical presentations.

4. **Instant Feedback and Analytics**: The immediate feedback and analytics provided by ClassPoint.ai can be a powerful tool for presenters. In a medical context, this allows for immediate clarification of misconceptions and tailoring the remainder of the presentation to address gaps in understanding.

5. **Ease of Use**: The user-friendly interface can be a significant advantage, especially for presenters who may not be tech-savvy. A straightforward setup means more time can be spent on content rather than technical preparation.

6. **Customization and Flexibility**: The ability to customize quizzes and interactive elements to fit the specific needs of a presentation is crucial. For medical professionals, this means being able to create content that aligns precisely with their training or informational objectives.

### Considerations:

- **Audience Familiarity with Technology**: While ClassPoint.ai is designed to be intuitive, the audience's familiarity and comfort with technology should be considered. Ensuring that participants can easily engage with the quiz system is key to its success.

- **Reliance on Internet Connectivity**:



As with most interactive systems, ClassPoint.ai relies on good internet connectivity. This could be a limiting factor in places where internet access is unstable.

- **Privacy and Data Security**: In the medical field, where data sensitivity is paramount, it's important to ensure that any interactive tool used complies with privacy and data protection standards.

- **Cost**: While some features are free, many advanced features, including larger audience or a large number of questions, need to be paid for.

In conclusion, Inknoe's ClassPoint.ai appears to be a robust tool for enhancing PowerPoint presentations with interactive elements. Its features can greatly benefit medical educators and professionals seeking to create more dynamic and engaging presentations. As with any technological tool, its effectiveness will depend on how well it is integrated into the presentation and the presenter's ability to leverage its features to enhance audience understanding and engagement.

## Setting Up Your Interactive Quiz

### **\*\*Step 1: Define Your Objectives\*\***

Start by defining what you want to achieve with the quiz. Are you testing knowledge, gauging opinions, or stimulating thought? For a medical presentation, objectives might include assessing understanding of a new treatment protocol or getting opinions on a case study.

### **\*\*Step 2: Develop Your Questions\*\***

Craft questions that are clear, concise, and relevant to your presentation's content. Use a mix of formats – multiple-choice, true/false, or short answer – to maintain variety. Ensure the complexity of questions is appropriate for your audience's expertise level.

### **\*\*Step 3: Integrate the Quiz into Your PowerPoint\*\***

Once you've selected your platform (like Kahoot! or Slido), the next step is to integrate it into your PowerPoint presentation. This usually involves:

- Installing an add-in or extension for PowerPoint.

- Embedding the quiz slides at strategic points in your presentation. For instance, after explaining a new concept, you can introduce a related quiz question to test comprehension.

### **\*\*Step 4: Test Your Setup\*\***

Before going live, it's crucial to test your setup. Check if the quiz displays correctly, the audience can access it easily, and you can view the responses in real-time.

## **Conclusion**

Setting up an interactive quiz in a PowerPoint presentation is a straightforward yet powerful way to enhance learning and engagement in your medical presentations. By carefully selecting the right tool and integrating it effectively into your presentation, you can create an interactive experience that resonates with your audience.

## **Conducting the Quiz and Engaging with Your Audience**

In this segment, we focus on the execution phase—conducting the quiz and actively engaging with your audience, especially crucial in a medical context where the precision of information and its understanding can have significant implications.

### **Preparing Your Audience**

#### **\*\*Step 1: Inform Your Audience\*\***

Begin by informing your audience about the interactive segment. Explain how to participate in the quiz—this might include scanning a QR code, visiting a website, or using an app. Remember, not all participants may be tech-savvy, so clear instructions are vital.

#### **\*\*Step 2: Set the Context\*\***

Briefly explain why the quiz is being conducted. Is it to test knowledge, encourage

interaction, or for feedback? In a medical presentation, clarifying the purpose can enhance focus and participation.

## **Conducting the Quiz**

### **\*\*Step 3: Launching the Quiz\*\***

When it's time for the quiz:

- Transition smoothly from your presentation to the quiz.

- Ensure that the quiz is easily visible to all participants.

- If possible, display real-time results as the audience responds, which adds an element of excitement and engagement.

### **\*\*Step 4: Timing and Pacing\*\***

Be mindful of timing. Allocate enough time for participants to read and answer each question but keep the pace brisk to maintain engagement. In medical presentations, where time is often limited, balancing depth of discussion with time constraints is key.

## **Interacting with Your Audience**

### **\*\*Step 5: Encourage Participation\*\***

Encourage everyone to participate. In a medical setting, emphasize that the quiz is a learning tool, not just an assessment. This approach can help alleviate any performance anxiety and foster a more open learning environment.

### **\*\*Step 6: Discussing the Responses\*\***

After each question:

- Discuss the correct answers and provide brief explanations. This is crucial in medical presentations where misinformation can have serious consequences.

- Acknowledge interesting or unexpected responses to foster a more interactive atmosphere.

- Be open to questions and comments from the audience.

### Dealing with Technical Issues

#### \*\*Step 7: Have a Backup Plan\*\*

Always have a contingency plan for technical glitches. This could be as simple as having a printed version of your quiz or being prepared to discuss the questions verbally.

#### \*\*Step 8: Collecting Feedback\*\*

After the quiz, consider collecting feedback on the session. This can be done through the same interactive tool or via a simple follow-up email. Feedback is invaluable for improving future presentations.

Conducting an interactive online quiz during a PowerPoint presentation can significantly enhance engagement and learning, particularly in the medical field where the complexity of information often requires innovative teaching methods. The key is to prepare thoroughly, encourage participation, and be ready to adapt to any situation.

### Analyzing Results and Integrating Insights into Future Presentations

Having covered the preparation and execution stages, we now turn our attention to the crucial post-presentation phase: analyzing results and using these insights for future presentations.

#### Analyzing Quiz Results

##### \*\*Step 1: Reviewing Responses\*\*

Post-presentation, take time to review the quiz responses in detail. Look for:

- Patterns in the answers: Were there certain questions that a majority got wrong?
- Individual outliers: Did specific questions elicit a wide range of responses?

In medical presentations, understanding

these patterns can help you gauge the clarity of your message and the effectiveness of how the information was presented.

##### \*\*Step 2: Reflecting on the Content\*\*

Reflect on the content of your quiz in relation to the responses. Consider:

- Difficulty Level: Were the questions too easy or too challenging for your audience?
- Relevance: Did the questions effectively tie back to your presentation's key points?

This reflection is particularly important in the medical field, where the accuracy and relevance of information are paramount.

### Utilizing Feedback

#### \*\*Step 3: Gathering Feedback\*\*

If you collected feedback post-quiz, analyze it to understand your audience's experience. Look for comments on:

- The interactive aspect of the quiz.
- The overall pacing and structure of the presentation.
- Suggestions for improvement.

In a medical context, feedback can provide valuable insights into how your colleagues or patients perceive and understand complex topics.

#### \*\*Step 4: Implementing Changes\*\*

Based on the analysis and feedback, consider making changes to:

- The way you present certain topics.
- The complexity and format of future quizzes.
- The interactive tools used, if necessary.

### Enhancing Future Presentations

#### \*\*Step 5: Continuous Improvement\*\*

The goal is continuous improvement. Use



what you've learned to refine not just the quiz but also your presentation style and content. In medicine, where ongoing education and adaptation are crucial, this iterative process helps maintain high standards of teaching and information dissemination.

## **\*\*Step 6: Staying Updated with Technology\*\***

Stay updated with the latest in presentation and quiz technology. As medical professionals, being tech-savvy can greatly enhance your ability to present complex information in an accessible manner.

## **\*\*Step 7: Sharing Your Experience\*\***

Consider sharing your experiences and learnings with colleagues. This could be through a seminar, a written piece, or informal discussions.

Sharing knowledge is particularly important in the medical community, as it fosters collective growth and improvement.

## **Conclusion**

Integrating an interactive online quiz into your PowerPoint presentations can transform the way you engage with your audience, making complex medical information more accessible and memorable. By analyzing results, listening to feedback, and continuously refining your approach, you can significantly enhance the effectiveness of your presentations.

This series aimed to provide a comprehensive guide on creating, conducting, and learning from interactive quizzes. We hope these insights assist you in your journey to becoming a more engaging and effective presenter in the medical field.



ADDITIONAL INPUTS FROM CHATGPT 4.0, IMAGES BY DALL-E (AI)

## PEDICON 2024 – ANNOUNCEMENT



### RATES PEDICON 2024 KOCHI

Category	Early Bird upto 31Mar 23	Up to 30 Jun 23	Upto 30 Sep 23	upto 31 Dec 23	From 01 Jan 24
IAP member	11000	18700	27500	37400	45000
Accompanying	11000	18700	27500	37400	45000
Non IAP	16000	37400	44000	55000	66000
Accompanying	16000	37400	44000	55000	66000
PG student	6000	9000	10000	12000	16000
Accompanying	11000	18700	27500	37400	45000
SR citizen	-			11000	11000
Accompanying	11000	18700	27500	37400	45100
SAARC	\$250	\$250	\$300	\$550	\$750
Non SAARC	\$450	\$450	\$550	\$750	\$950
Corporates	25000	38500	44000	49000	60000
Accompanying	25000	38500	44000	49000	60000

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DR M. I. JUNAID RAHMAN  
Organising Treasurer

**FOR ASSISTANCE**  
Contact Conference Secretariat @ 7012025938

# IAP Navi Mumbai

## NAVI MUMBAI IAP BRANCH REPORT DECEMBER 2023

### ACADEMIC –

1. 1<sup>st</sup> Dec 2023 - **Diamond Jubilee Academic Series: Pg Reach of CIAP Supported by Apollo Institute of Child Health**  
Experts - Prof Dr S Balasubramanian & Prof Dr Srinivasan  
Topic: IAP PG Teaching Sessions  
<https://us02web.zoom.us/j/83349826310?pwd=L1pjSnR6a01BK254QXZwbk54UkQ4Zz09>  
<https://diapindia.org/event-details.php?event=2422&title=IAP-PG-Teaching-Sessions---Supported-by-Apollo-Institute-of-Child-Health>
2. 1<sup>st</sup> – 3<sup>rd</sup> Dec 2023 – **PEDICRTICON 2023 PUNE**  
Theme – Pediatric Critical Care: Combining Evidence with Experience  
Experts – **Dr Abhijit Bagde , Dr V N Yewale.**
3. 3<sup>rd</sup> Dec 2023 – CIAP Module **Life beyond Pediatrics** at Nagercoil  
Expert – **Dr Shilpa Aroskar**
4. 10<sup>th</sup> Dec 2023 - **To demystify the journey of the micro biome and also to unravel the role of probiotics, IAP Navi Mumbai presents the Central IAP module.**  
Topic- Role of Probiotics in Dysbiosis: Hope or Hype  
Expert - Dr Neelam Mohan (Pediatric Gastroenterologist)  
Moderator – **Dr Praveen Mody**
5. 10<sup>th</sup> Dec 2023 - **D3 Meet by Dr. Nimain Mohanty**  
<https://outreach.doconnect.co.in/#/asm-meeting/guest/32804/2023-12-10>
6. 12<sup>th</sup> Dec 2023 – **Clinical Management of Dengue & Recent Advances**  
Expert – **Dr V N Yewale**  
<https://diapindia.org/openregistration/index.php>
7. 15<sup>th</sup> Dec 2023 – **Diamond Jubilee Academic Series: Pg Reach of CIAP Supported by Apollo Institute of Child Health**  
Experts - Prof Dr S Balasubramanian & Prof Dr Srinivasan  
Topic: IAP PG Teaching Sessions  
<https://us02web.zoom.us/j/89552341379?pwd=M2RuQUtob2hVUkxMdkRTOHVSRWp4QT09>
8. 17<sup>th</sup> Dec 2023 – **Infectious Diseases Conundrum (ICC)**  
A workshop under IAP Action Plan 2023  
Experts – **Dr Amol Jaybhaye, Dr Suhas Kharche, Dr Amog Shahane**
9. 17<sup>th</sup> Dec 2023 – **Asthma Training Module** (IAP Respiratory Chapter & IAP Balasore)  
Expert – **Dr Vikram Patra**
10. 24<sup>th</sup> Dec 2023 - **Central IAP ACS CFI HPV Module**  
Master Trainer: Dr Sushma Kirtani  
Core Trainer: Dr.Amin Kaba  
HPV project Executive Lead: **Dr Jeetendra Gavhane**  
Moderator: **Dr Gargi B**  
<https://zoom.us/j/95375293310?pwd=ajNsZnVyV2tKKy9PdFg2VVNsSVNnZz09>

## IAP Navi Mumbai

**DIAMOND JUBILEE ACADEMIC SERIES: iREACH**

JOIN US FOR PG CLINICAL TEACHING SESSION  
IN ASSOCIATION WITH NAVI MUMBAI ASSOCIATION  
OF PEDIATRICS AND APOLLO HOSPITAL.



**DR. S. BALASUBRAMANIAN**  
Senior Consultant, Apollo Hospital, Chennai



**DR. S. SRINIVASAN**  
Senior Consultant, Apollo Hospital, Chennai

Time: 09:00PM - 10:30PM  
On Friday, 1st December 2023

In Association With



**IAP NAVI MUMBAI**

**ROLE OF PROBIOTICS IN DYSBIOSIS: HOPE OR HYPE**

DATE: November 14th November 2023  
TIME: 07:00 - 09:00 AM

**Dr. Neelam Mohan**  
Senior Consultant, Apollo Hospital, Chennai

This Event is Sponsored by **sanofi**



**CLINICAL MANAGEMENT OF DENGUE AND RECENT ADVANCES**

DECEMBER 12th 2023

**KAIGAD IAP INFECTIOUS CASE CONUNDRUM (ICC)**

A GLOSSARY WHERE IAP ACTIVE PLAY 2023 LET'S MAKE LEARNING CHALLENGES AN OPPORTUNITY TO GROW

5TH DECEMBER SUNDAY

8:30 AM - WE WILL START WITH REG. & BREAKFAST

**DIAMOND JUBILEE ACADEMIC SERIES: iREACH**

JOIN US FOR PG CLINICAL TEACHING SESSION  
IN ASSOCIATION WITH NAVI MUMBAI ASSOCIATION  
OF PEDIATRICS AND APOLLO HOSPITAL.



**DR. S. BALASUBRAMANIAN**  
Senior Consultant, Apollo Hospital, Chennai



**DR. S. SRINIVASAN**  
Senior Consultant, Apollo Hospital, Chennai

Time: 09:00PM - 10:30PM  
On Friday, 15th December, 2023

In Association With

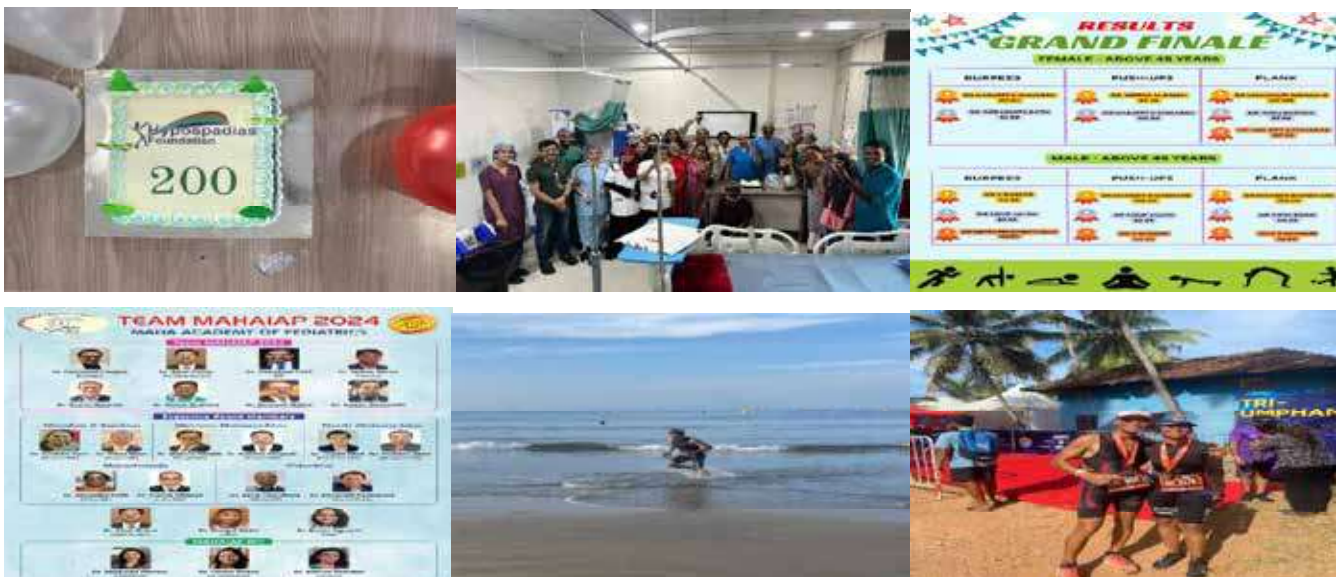


## IAP Navi Mumbai

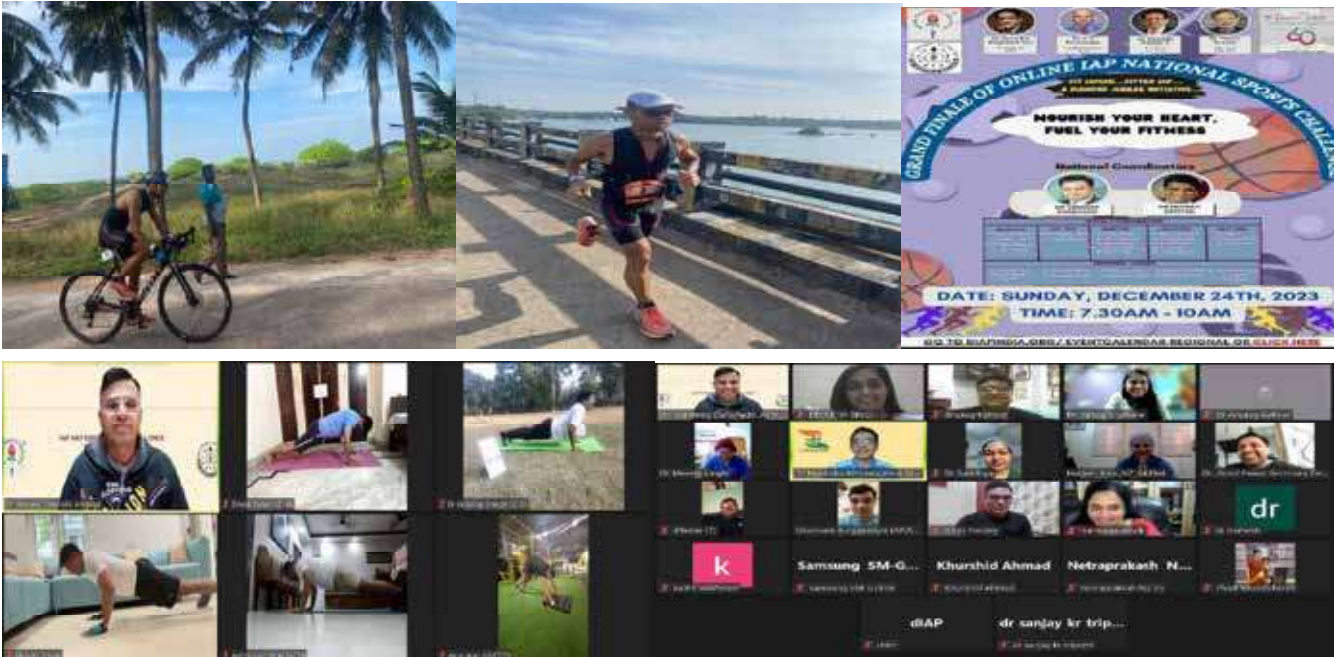


### PUBLICATIONS AWARDS & REGOGNITIONS –

1. **Dr Upendra Kinjavdekar**, IAP National President has been appointed on **NCERT Mail** by Hon Education Minister.
2. **Dr Satish Shahane** selected as **MahalIAP Convenor** and **Dr. Mangai** as **MahalIAP Edi**
3. **Dr. A.K.Singal** and **Dr Ashwitha Shenoy** completed **200 Hypospadias Surgeries** in o Calendar year 2023.
4. At the **1st IAP National Sports Challenge 2023** **Dr. Mahesh Sambhare** winner 🏆 for the **Push-up and Planks** round.



## IAP Navi Mumbai



### SOCIAL –

1. Navi Mumbai IAP conducted SSS program (**Sankalp Sampoorna Swasthya**), under the leadership of central IAP President **Dr Upendra Kinjawadekar** at **Prathmik Vidyama sankul Vivekananda school, Sanpada** on 2.12.2023 from 9 to 11.30 (Senior module to 1 pm (Junior module). After a brief introduction of SSS by **Navi Mumbai IAP Pres Satish Shahane**, he started with Senior module for 40 kids of 6th STD where he too interactive session on the importance of Balanced diet and JUNKS and reading of nutrition labels which was well received. **Dr Amog Shahane** gave the students an energetic session on physical activity and the importance of keeping 'Digital wellness' for complete well-being. The session on the Importance of sleep Hygiene and Happify yourself was explained well by dynamic Adolescent expert **Dr Kalyani Patra**. **Navi Mumbai IAP Secretary, Dr Sinha** very emphatically expressed the importance of 'How to say NO' to different substance addictions by creating role plays using placards with the enthusiastic children. The Junior module was well covered explaining the importance of nutrition, sleep, physical activity and more green time as compared to screen time along with self-explanatory videos on nutrition and avoiding JUNKS. This was attended by 50 children of 3rd STD who were eager to participate and interact. The session was highly appreciated by the Principal, Mrs Tanuja Nair in her feedback video and the kids were equally delighted on receiving healthy chikki pack and fresh bananas to cater to their nutritional needs.
2. Hearing Disability is one of the most common and troublesome for future of many children. On this **World Disability Day 3<sup>rd</sup> December** Navi Mumbai in collaboration with 'Health Centre' Kharghar headed By **Audiologist Dr Supriya Naik Mohite** has conducted two **Free Camp on OAE and Learning Disability assessment** for Fifty children who got benefited from the Same. From these Three children posted for BERA.

## IAP Navi Mumbai

3. **Dr Pravin Gaikwad & Dr Arti Gaikwad** participated in **Malpe beach Udipi sprint tri** and completed the task in record timings. This senior practising pediatrician couple inspiration to the entire nation.  
**1.47 hours for Dr Pravin**  
**2.02 hours for Dr. Arati**
4. India Post & Apollo Hospital Cancer Centre join hands to launch “**Stamp Out Childh Cancers Campaign**”. **Dr Vipin Khandelwal** In charge Apollo Cancer Centre Belapur e his enthusiasm in the same by actively participating in the event.
5. Dynamic Scientific Convener and Central IAP EB member **Dr Jeetendra Gavhane** and Mumbai IAP EB member and Pediatric Intensivist **Dr Priyanka Amonkar** have condu **Advance Life Support Training Program for Fifty Nurses and given hands on trainir** them in **MGM Hospital Vashi**.
6. Navi Mumbai IAP senior Paediatrician and extremely enthusiastic member, **Dr.Prave** took a session on asthma awareness on 7th Dec '23 at **Phoenix international schoo** The session was attended by parents, teachers, and students from 3 rd to 8th stand There were about 80-90 students and 15 teachers and a small group of parents. The was to **dispel the myths about asthma in children and to teach them how to ident triggers and take inhalers properly**, which was successfully achieved in the meeting
7. **Slice of my life @drshilparoskar - JOMO (yes, an antidote to FOMO)** <https://drshilpaaroskar.wordpress.com/2023/12/11/jomo-joy-of-missing-out-drshilparoska>
8. Navi Mumbai is a dream housing destination for many of us and construction site la are there from all across Country in our areas. **Navi Mumbai IAP in collaboration w Satya Sai hospital Kharghar tried a bit resolve their misery by conducting mega he check up camp for poor children today at Pendhar construction site Kharghar with 150 children screened and guided**. Two heart problems with multiple micro nutritic deficiency were picked up in examination One normal looking severe bradycardia cl picked up by our dynamic **treasurer Dr Amit Saxena** and immediately referred to Sr Sai hospital Kharghar for further investigation Camp was attended by eight doctors. Our lively **president Dr Satish Shahane** and supported by his hospital staff, Treasure Saxena and his Dy Patil Hospital Team. We thank team Sri Satya Sai hospital Khargha **Dr Hrishikesh Wadke,Dr Sonal And Head of the department Dr Dy Patil Hospital D Kotrashetty** for their support and guidance.
9. Thalassaemia is a blood disorder needing regular blood transfusions and chelation th with diligent monitoring to lead a near normal life. **NMAP along with Rotary Club h organised a melodius evening** on 22nd December 2023, to raise funds and awaren this chronic disorder. The unique feature of this event is all doctors will be performi stage.

## IAP Navi Mumbai



### WORLD DISABILITY DAY 3<sup>rd</sup> December 2023 (Sat & Sun)

Free Hearing, Speech & Academic Skills Screening Camp (Children) In Collaboration with IAP Navi Mumbai



### ACTIVE TIMES India Post & Apollo Cancer Centres join hands to launch 'Stamp Out Childhood Cancer' Campaign

Stamp Out Childhood Cancer is a biennial awareness initiative for cancer prevention and early detection. India Post & Apollo Cancer Centres are collaborating with India Post to launch a nationwide stamp campaign. The campaign is aimed at raising awareness about childhood cancer and encouraging early detection. The campaign is being launched in Navi Mumbai on 3<sup>rd</sup> December 2023. The campaign is being launched in Navi Mumbai on 3<sup>rd</sup> December 2023. The campaign is being launched in Navi Mumbai on 3<sup>rd</sup> December 2023.

### कॅन्सर स्मरणार्थ तिकीटाचे अनावरण



नवी मुंबई | भारतातील कॅन्सरीसोबत लढण्यासाठी संपूर्ण देशभर तिकीटांचे अनावरण करण्यात येणारे 'स्टॅम्प आउट चिल्ड्रन कॅन्सर' अभियानाचे अनावरण आज सकाळी १० वाजता आयोजित करण्यात आले. यावेळी डॉ. अशोक शिंदे यांनी कॅन्सरची जाणीव वाढवण्यासाठी या अभियानाचे अनावरण केले. यावेळी डॉ. अशोक शिंदे यांनी कॅन्सरची जाणीव वाढवण्यासाठी या अभियानाचे अनावरण केले.



**ROTARY CLUB OF NAVI MUMBAI HILLSIDE**  
Club No. 27191 in Rotary District 2144 I Charter 2311 June 1999

## एक सुरमयी शाम

• End Thalassemia Now (ETN) - Thalassemia Free Navi Mumbai  
• Solar Power Installation at Dnyanesh Siddha Industrial Cooperative Society for Handicapped (Special Children)  
• End Thalassemia Now (ETN) - Thalassemia Free Navi Mumbai

Friday 22nd December 2023  
9:00 pm - 11:00 pm

Vishwas Bhaskar Nityanand  
Vashi, Navi Mumbai



## IAP Kerala



BLS Training to public IAP Kasaragode



Dr TU Sukumaran oration by Dr Gowrisanker at State Respicon Calicut

# IAP Kerala



Palliative Care CME IAP Trivandrum

## IAP Kerala



Hematooncology CME IAP Kannur

## IAP Kerala



Green Army Project IAP Vadakara



### 2nd Essential Vaccinology Course - IAP Kerala

2023 December 15,16,17 , IMA house Kochi



2 nd batch of Essential Vaccinology Course IAP Kerala

## IAP Kerala

# IAP Thalassery



# Installation Ceremony

## IAP Kerala



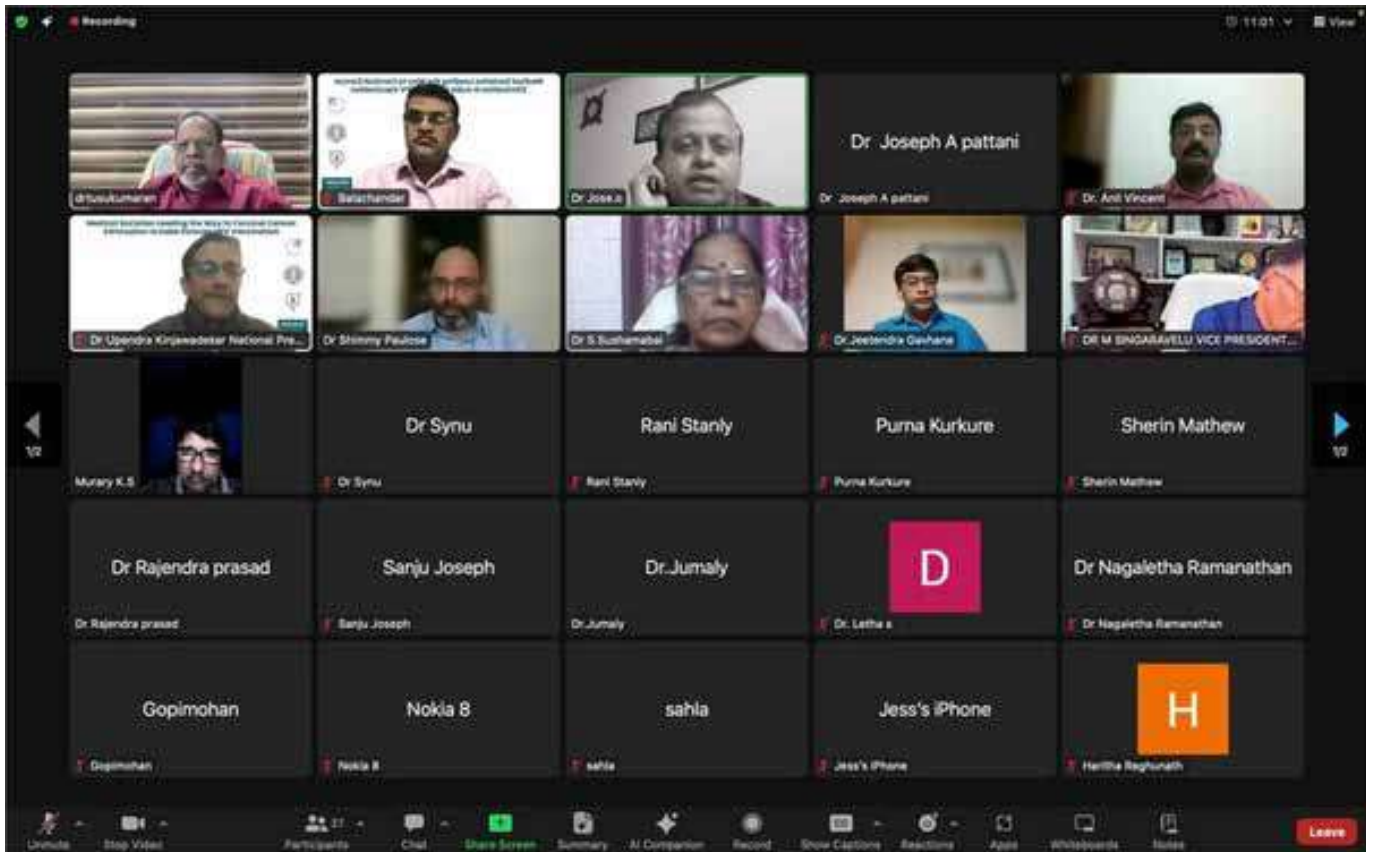
Installation IAP Malanad

## IAP Kerala



Installation IAP Kannur

## IAP Kerala



CIAP Hpv Vaccine CME



BNRP Programme IAP Pathanamthitta



## IAP Kerala



Pediatric Snippets IAP Kasaragode

## IAP Kerala



NSSK programme GMC Idukki