





15th SCIENTIFICA

NATIONAL PHYSIOTHERAPY CONFERENCE

THEME

EMBRACING AI TECHNOLOGY: TRANSFORMING THE FUTURE OF PHYSIOTHERAPY AND REHABILITATION

16th & 17th NOVEMBER 2024

VENUE: GOA MEDICAL COLLEGE



MESSAGE FROM ORGANISING CHAIRPERSON

Dear Esteemed Colleagues and Friends,

On behalf of the Organising Committee of the 15th Scientifica 2024 National Conference, it is my great pleasure to invite you to participate in our mega event with the Theme "Embracing Al Technology: Transforming the future of Physiotherapy and Rehabilitation" organised jointly by the Physiotherapy Course, Allied Health Sciences, Goa Medical College, Bambolim, Goa and Sancheti Institute For Orthopaedic and Rehabilitation College of Physiotherapy, Pune, Maharashtra

Al and technology will not replace Physiotherapists. But Physios who are advent in the knowledge and application of Al and technology will definitely replace conventionally practicing Physios. So, join us on the 16th and 17th November 2024 at Goa Medical College as we bring together distinguished professionals, experts, and researchers in the field to share insights, exchange knowledge, and collaborate towards advancements in Al and technology related to healthcare.

Your expertise and contribution will undoubtedly enrich the discussions and contribute significantly to the success of this esteemed gathering. We look forward to your presence and active involvement as we strive to drive excellence in the realm of Al and Technology in Physiotherapy and rehabilitation.

Warm regards,



Dr. Apurv Shimpi
Organising Chairperson
Scientifica 2024

MESSAGE FROM ORGANISING CHAIRPERSON

Honored distinguished delegates,

I would like to send my best wishes and extend an invitation to all of you to attend Scientifica 2024, which will take place in November and is centered around the use of artificial intelligence in research and physiotherapy management.

It gives me immense pleasure in hosting Scientifica Conference at our Age-old Institution, Goa Medical College on 16th and 17th November 2024 in collaboration with Sancheti college of physiotherapy, Pune, thus marking our "10 years of excellence" as we take a step towards newer beginnings and brighter future by focussing on impact of Artificial Intelligence on academia.

We are bringing professionals, experts, and scholars to you to exchange knowledge and offer their perspectives on the rapidly developing field of artificial intelligence.

Join us with your insights and contribution. We look forward to your presence to this gathering as we try to make a mark with advancement of Physiotherapy.

Warm regards,



Dr. Jorida Fernandes
Organising Chairperson
Scientifica 2024

SCIENTIFICA REGISTRATION FEE CATEGORY

Categories	Early Bird Till 15th Sep 24 (INR)**	Regular Till 10th Nov 24 (INR)**
UG Students	2,950/-	3,540/-
PG Students	3,540/-	4,130/-
Professionals	4,130/-	4,720/-
Gala dinner (16th Nov)	1,180/-	1,416/-
Post Conference Workshop for Offline Registration only (Any One)	500/-	500/-
Online Mode	2,950/-	2,950/-

**Registration Charges inclusive of GST

SCAN & SECURE YOUR SPOT



FOR FURTHER QUERIES:

DR. TWINKLE KUNDNANI-8446001148.

DR. ASHLESHA P- 7875225029

17th NOVEMBER 2024

WORKSHOP 1

Al & Emerging Technologies : Adopting for day -to-day use





Surgeon, and Orthopaedic Clinical Scientist, Founder AnaesthesiaTV Global PhysioTV Global, RheumatTV,

and Pain TV



Dr. Neeraj Bijlani

Consultant Orthopaedic
Surgeon and Chief of
Orthopaedics in
OrthoTech Clinic

17th NOVEMBER 2024

WORKSHOP 2

Enhancing Research with Artificial Intelligence



Dr. Waqar Naqvi

PhD PT, PhDc HPE, MPT, International FAIMER Institute fellow (2024-25).

AD Vivum Health & Research, United Arab Emirates.



17th NOVEMBER 2024

WORKSHOP 3

Making Al models for Rehabilitation : Coding and deep learning tools



Mr. Yashwant Ingle

Assistant Professor at Vishwakarma
Institute of Technology, Pune
Author of Springer Book on "Data
Centric AI" and IEEE Book by River
Publication on "Explainable AI"



17th NOVEMBER 2024

WORKSHOP 4

Generative Al in Academics, Research & Practice of Physiotherapy



Dr. Michael Rowe

Asso. Prof. & Director of Digital
Innovation and Simulation
School of Health and Care Science at
the University of Lincoln (UK)



17th NOVEMBER 2024

WORKSHOP 5

How to Practice Al-based Physiotherapy in your clinical setup



Dr. Vijay Bathina

Clinical Director & Head of
Rehabilitation
Atharv Ability -Hyderabad
Clinical head - Startoon labs Pvt Ltd
(EMG device -PHEEZEE)



17th NOVEMBER 2024

WORKSHOP 6

Taping in Sports



Dr. Anand Gangwal

Associate Professor at Sancheti
Institute for Orthopaedics and
Rehabilitation College of
Physiotherapy
Director of PrimePhysio Clinic



CALL FOR ABSTRACTS

16TH & 17TH NOVEMBER 2024

Undergraduate Category Postgraduate Category

Professional Category

THEMES:

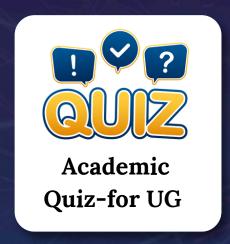
Musculoskeletal, Manual Therapy and Sports Physiotherapy
Neuro Physiotherapy (Adult/Pediatrics)
Intensive Care and Cardiopulmonary Physiotherapy
Community Physiotherapy
Innovations/AI/Technology

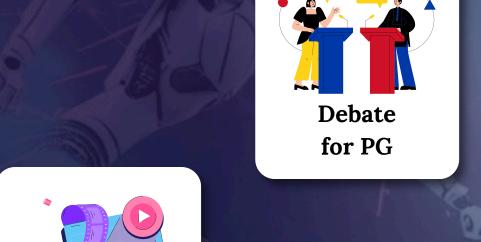
Paper presentations for online registrations will be held on November 15th, 2024, and for offline registrations on November 16th and 17th, 2024.

Submit your abstracts till 21st Sept 2024 to papers.scientifica@gmail. com

CONTACT US INCASE OF QUERIES:
DR. ALISHA MEMON- 9175078924
DR. ALISHA GRACIAS- 9881887175

STUDENT FORUM 16TH NOVEMBER 2024





{ The students forum events will be conducted offline }

Reel making

SCIENTIFICA REGISTRATION IS MANDATORY
Last Date of Entry is 31st Oct 2024
Email us at- studentforum.scientifica@gmail.com



Contact Us for Any Queries

Dr. Farheen Patel-9822796792

Dr. Rujuta G- 7798673086

Al transforming the future of Physiotherapy and Rehabilitation



Dr. Michael Rowe

Asso. Prof. & Director of Digital
Innovation and Simulation
School of Health and Care Science at the
University of Lincoln (UK)



AlDemics - Adapt or Adept?



Dr. Waqar Naqvi

PhD PT, PhDc HPE, MPT, International FAIMER Institute fellow (2024-25).

AD Vivum Health & Research,
United Arab Emirates.



Blood Flow Restriction Therapy (BFRT): Lessons Learned



Dr. Anil Bhave

Clinical Director Orthopedic
Rehabilitation & Chief of Strategy for VR and
Advanced Orthopedic Rehabilitation,
Rubin Institute of Advanced Orthopedics,
Sinai Hospital, MD, USA



Tech-Driven Rehab: Unleashing the Power of Digital Technology and Robotics



Dr. Vijay Bathina

Clinical Director & Head of Rehabilitation
Atharv Ability -Hyderabad
Clinical head - Startoon labs Pvt Ltd
(EMG device -PHEEZEE)



Al-Powered Wearables: A new Frontier in Physiotherapy & Rehabilitation



Dr. Polat Goktas

Senior Researcher at UCD School of Computer Science & CeADAR, University College Dublin, Ireland



Al Ethics in Health Profession: Navigating the Grey Areas



Dr. Rohini Ganjoo

Associate Professor,
George Washington University
School of Medicine & Health Sciences
Co-Founder & CSM of ANRA Technologies,
Virginia, USA





Dr. Arun Maiya
Dean of MCHP, Manipal
Professor, Department of
Physiotherapy,
MCHP Manipal.

Topic- Augmenting Artistry: How Al Shapes Innovation



Dr. John Solomon
Additional Professor
Head-Department of
Physiotherapy
Manipal College of Health
Professions
Coordinator- Centre for
Comprehensive Stroke
Rehabilitation and Research
(CCSRR)

Topic- VR and Gaming Rehabilitation for Upper Limb Recovery After Stroke





Dr. Asha ChitnisDirector
Vedanta Pediatric Centre,
Mumbai

Topic- Future of Pediatric Rehab with AI



Dr. Arun Maiya

Dean of MCHP, Manipal

Professor; Department of

Physiotherapy,

MCHP Manipal

Topic- Physical Activity Assessment using wearable devices





Dr. Gaurang BaxiAssociate Professor; Institute of

Medical Education Technology and Teacher's Training, MUHS, Nashik.

Topic- Redefining Assessment with Digital Tools



Dr. Apurv Shimpi

Principal and Professor,
Sancheti Institute for
Orthopaedics and
Rehabilitation College of
Physiotherapy, Pune

Topic- Overview on Embracing AI & Technology in Physiotherapy





Dr. Shaswat Verma
Assistant Professor,
Department of Physiotherapy
Ramaiah Medical College
Bangalore

Topic- From Cables to Clouds: Transforming Physiotherapy with IoT Magic



Dr. Venu Mohan
Associate Professor,
Sancheti Institute for
Orthopaedics and Rehabilitation
College of Physiotherapy

Topic- Mobile-based Apps in Assessment & Rehab





Dr. Twinkle Dabholkar (PhD)

Professor and Head, Department
of Musculoskeletal
Physiotherapy, School of
Musculoskeletal Physiotherapy,
D. Y. Patil University,
Navi Mumbai

Topic- Tech-based
assessment in
Musculoskeletal
Physiotherapy: In Tune with
Tomorrow



Dr. Chanan Goyal

Demonstrator, Government Physiotherapy College, Raipur Director, BrainChild Paediatric Therapy Solutions, Raipur (CG)

Topic- Virtual Reality: A New Frontier in Pediatric
Physiotherapy





Dr. Prashant Mukkannavar
Principal and Professor
KLE College of Physiotherapy,
Hubballi.

Topic- Al meets Health Science Research: A New Era for Health Literacy



Dr. Sai KishoreAssistant Professor
Department of Sports Medicine
and

Sports Science, Saveetha Institute of Medical & Technical Sciences (SIMATS), Chennai.

Topic- From Bench to Field: Return to Sport Assessment in the Digital Age





Mr. Guruprasad Pawaskar Goa State Commissioner for Persons with Disabilities

Topic- Role of Government in Disability Rehab: UDID for people with Disabilities



Dr. Varun NaikAssociate Professor,
KLE Institute of Physiotherapy

Topic- Matrix Rhythm Therapy: technological Pioneering of Cellular-Level Rehabilitation





Mr. Yashwant Ingle
Assistant Professor at
Vishwakarma Institute of
Technology, Pune
Author of Springer Book on "Data
Centric AI" and IEEE Book by
River Publication on "Explainable

Topic- Deep Learning Tools & AI in Physiotherapy

AI"



Shruti Thakur
Third year Student
Sancheti Institute for
Orthopaedics and Rehabilitation
College of Physiotherapy

Topic- Using AI Tools to Create Posture Assessment Model





Dr. Ajeet Saharan
Principal,
Nims College of Physiotherapy
and Occupational Therapy,
NIMS University Rajasthan,
Jaipur

Topic- Patient-Centred Care with AI



Ms. Deepali Kant
Sr P&O consultant at Mahavir
Enterprises
Experience of over 20 years in
the field of prosthetics and
orthotics

Topic- 2D gait analysis introduction and Case studies





Dr. Ashok Shyam Consultant Orthopaedic Surgeon, and Orthopaedic Clinical Scientist, Founder AnaesthesiaTV Global, PhysioTV Global, RheumatTV, and Pain TV

Topic- Rehab Al



Dr. Mrinmayee KoltharkarFounder & CEO of The Pulmonary
Rehab and Caring Conversations

Topic- From isolation to Independence: Transforming Care with Tele-pulmonary Rehab





Dr. Sai Kishore
Assistant Professor
Department of Sports Medicine
and
Sports Science, Saveetha
Institute of Medical & Technical

Topic- Return to Sports Criteria & Testing for Injured Athletes

Sciences (SIMATS), Chennai.



Dr. Shobhalakshmi SAssociate Professor
Ramaiah College of
Physiotherapy

Topic- Technological breakthroughs in managing musculoskeletal pain





Dr. Ketan BhatikarFounder, Sports Physiotherapy
Aqua Rehabilitation Clinic

Topic- Current Trends in Physiotherapy



Dr. Unnati Pandit
Dean & Director of DY Patil
School of Physiotherapy, Navi
Mumbai

Topic- Veterinary
Physiotherapy: Bridging the
Gap Between Human &
Animal Healthcare





Dr. Shwetha Rao Warke Founder of PhysioQinesis

Topic- Running Analysis
Simplified



Dr Sayyeda Uneza Fatima

Senior physiotherapist- Primus superspeciality Hospital Founder- Rehabilified (online Learning platform)
Health influencer
@cardiopulmonaryrehab

Topic- Navigating your Career Path in Physiotherapy





Dr. Sajeevan Tharayil
Professor
JDTI physiotherapy college
Practitioner- Advaitham
physiotherapy treatment centre

Topic- Generative AI Tools in Physiotherapy training Program



Dr. Sona Kolke
Professor & HOD
Department of Musculoskeletal
Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy

Topic- Introduction to Blood Flow Restriction Therapy





Dr. Vijay Bathina
Clinical Director & Head of
Rehabilitation, Atharv Ability Hyderabad
Clinical head - Startoon labs Pvt Ltd
(EMG device -PHEEZEE)

Topic- AI-Driven Innovations in Neuro Rehabilitation: Enhancing Pain Management and Functional Recovery



Dr. Asha ChitnisDirector
Vedanta Pediatric Centre,
Mumbai

Topic- Creating a path to independence: Maximizing function in pediatric Rehab





Dr. Mrinmayee KoltharkarFounder & CEO of The Pulmonary
Rehab and Caring Conversations

Topic- Mastering Remote Pulmonary Rehab: Effective Tele-assessment for Lung Patients



Dr. Shaswat Verma
Assistant Professor, Department
of Physiotherapy, Ramaiah
Medical College, Bangalore
Topic- IOT based sensors in patient

monitoring





Dr. Pallavi Singh
Founder
Stride Fitness; Mobility Clinic,
Mumbai, Indore and Jammu



Ms. Deepali Kant
Sr P&O consultant at Mahavir
Enterprises
Experience of over 20 years in the field
of prosthetics and orthotics

Topic- Step by Step: Navigating Podiatric Assessment in Rehab





Dr. Sai Kishore
Assistant Professor
Department of Sports Medicine
and
Sports Science, Saveetha
Institute of Medical & Technical
Sciences (SIMATS), Chennai.

Topic- Return to Sports Criteria & Testing for Injured Athletes



Dr. John Solomon
Additional Professor
Head-Department of Physiotherapy
Manipal College of Health Professions
Coordinator- Centre for Comprehensive
Stroke Rehabilitation and Research
(CCSRR)

Topic- Virtual Reality and Rehab in Stroke Patients





Dr. Rujuta GargeClinical Physiotherapist,
Pediatric neuro rehabilitation
centre in Goa medical College
and hospital

Topic- Developmental Supportive Care of Neonates in NICU



Dr. Reena Fernandes

Clinical Physiotherapist in Goa Medical College and Hospital Assistant Head Physiotherapist in the Department of Plastic Surgery and Burns.

Topic- Overview of Physiotherapy in Plastic Surgery





Dr. Anu Arora
Professor & HOD
Department of Community Health,
D. Y. Patil School of Physiotherapy,
Pune

Topic- Geriatric Functional Testing



Dr. Shweta Raut MulgaonkarClinical Physiotherapist
Department of Orthopaedics, Goa
Medical College, Goa

Topic- Exercise Prescription for Diabetes & Hypertension





Dr. Shannon FernandesPhysiotherapist
Allied Health Science Courses
Goa Medical College

Topic- Basic Post-ACLR Rehab



Dr. Prajakta Sahasrabudhe
Professor & HOD
Department of Cardiovascular and
Respiratory Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy

Topic- Outcome assessment options for pulmonary function





Dr. Suroshree Mitra
Professor & HOD
Department of Community
Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy



Dr. Farheen Patel
Assistant Professor
Department of Community
Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy

Topic- Basics of Pelvic Floor Assessment





Dr. Radha Bhattad
Professor & HOD
Department of Neuro Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy



Dr. Twinkle Kundnani
Assistant Professor
Department of Neuro Physiotherapy
Sancheti Institute for Orthopedics and
Rehabilitation College of Physiotherapy

Topic- Goal-setting using ICF in Neuro Rehab





Dr. GunasekharanPrincipal & Professor
Dhole Patil College of Physiotherapy,
Pune

Topic- The Future of Physiotherapy -Emerging Trends & Expectations



Dr. Amit Patel
Senior Lecturer
JG College of Physiotherapy,
Ahmedabad, Gujarat

Topic- Pelvic Physiotherapy - To Kegel or Not?





Dr. Milind KahileProfessor & HOD

Datta Meghe College of
Physiotherapy, Nagpur

Topic- National Programs for Healthcare in Elderly



Dr. Prem Kumar
Professor & HOD
EMS Memorial co-operative Hospital
& Research center PMNA, Kerala

Topic- Critical Care Rehabilitation & Post- Intensive Care Syndrome





Dr. Surendra Wani
Professor & HOD
Department of Musculoskeletal
Physiotherapy
MGM School of Physiotherapy

Topic- Clinical Palpation: A Key to Effective Patient Evaluation



Dr. Pradeep Borkar
Associate Professor
Department of Sports Physiotherapy
Dr. APJ Abdul Kalam College of
Physiotherapy, Loni

Topic- Adaptive Technology in Paralympics





Dr. Laxmi KamatPhysiotherapist
Goa Medical College and Hospital

Topic- Role of Physiotherapist in Vestibular Rehabilitation



PEP TALKS

Grateful leadership

Mrs. Manisha Sanghavi

Confidence is a Muscle: How to build it everyday?

Dr. Sunita Chugh

Image Generation Using Al Dr. Ashok Shyam

Social Media & Doctors

Dr. Neeraj Bijlani

Turning Challenges into Opportunities

Dr. Apurv Shimpi

Adaptability: Thriving in Uncertainty

Dr. Radha Bhattad

Small Steps, Big ImpactDr. Nishand P. D



PEP TALKS

Being Creative in Healing Dr. Tejas Borkar

Campus to Community
Dr. Pooja Akhtar

Gratitude amplifies Opportunity

Dr. Jorida Fernandes

Turning Passion into Profit Dr. Dinesh Chavhan

Failure is Feedback Miss. Nidhi Joshi

Learning to LearnMiss. Riya Surti



HIGHLIGHTS FOR GALA DINNER

"Set sail for an unforgettable evening-



where ocean views meet extraordinary dining at our gala dinner aboard the cruise!"





थंय तुका मेळटले!!

AI