16 YEARS OF EXCELLENCE IN ALLIED HEALTHCARE EDUCATION

16th YEARS EXCELLENCE IN SVCAHS

ALLIEDZINE 2K26

shaping the future of healthcare

THE ANNUAL MAGAZINE OF
SRI VENKATESHWARAA COLLEGE OF
ALLIED & HEALTHCARE SCIENCES

SVCAHS
SVCAHS MAGAZINE

VOLUME 05
JULY 2026
www.svcpms.ac.in



SVCAHS

SRI VENKATESHWARA COLLEGE OF ALLIED & HEALTHCARE SCIENCES

ENTER TO LEARN , GO FORTH TO SERVE

ABOUT SVCAHS

Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), established in 2010 under the Ramachandra Educational Trust, is a premier institution dedicated to excellence in allied health education, clinical training, research, and community service.

The institution offers competency-based education supported by modern laboratories, simulation-based learning, and extensive clinical exposure, enabling students to develop the knowledge, technical skills, and professional competencies required for quality healthcare delivery. SVCAHS is academically and clinically integrated with Sri Venkateshwaraa Medical College Hospital & Research Centre (SVMCH&RC), providing students with comprehensive hands-on clinical training, interdisciplinary learning, and real-world experience in a 1,160-bedded tertiary care teaching hospital.The college has consistently achieved excellent university results, produced gold medalists, and maintained an outstanding placement record, reflecting its unwavering commitment to academic excellence and professional development.
Guided by its vision of "Creating a Healthier Society," SVCAHS continues to nurture skilled, compassionate, and ethically responsible allied health professionals, empowering them to make meaningful contributions to healthcare at both national and global levels.

VISION

Developing skilled Technologists and Therapists, who are vital to "Creating a Healthier Society", is at the core of our vision.

MISSION

Our mission is to foster an inclusive and conducive environment by providing quality education, hands-on training and professional guidance that would translate into the best learning experience for all our students.

PROGRAMMES OFFERED

1. **B.MLS** (BACHELOR OF MEDICAL LABORATORY SCIENCES)
2. **B.MRIT** (BACHELOR OF MEDICAL RADIOGRAPHY & IMAGING TECHNOLOGY)
3. **B.AOTT** (BACHELOR OF ANAESTHESIA & OPERATION THEATRE TECHNOLOGY)
4. **B.EMT** (BACHELOR OF EMERGENCY MEDICAL TECHNOLOGY, PARAMEDIC)
5. **B.OPTOM** (BACHELOR OF OPTOMETRY)
6. **B.CLT** (BACHELOR OF CATH LAB TECHNOLOGY)









AS PER THE REGULATIONS OF THE NCAHP ACT, 2021, SVCPMS HAS BEEN RENAMED AS SVCAHS.

FROM THE DESK OF

CHAIRMAN



It gives me great pleasure to present ALLIEDZINE 2K26, the Annual Magazine of Sri Venkateshwaraa College of Allied and Healthcare Sciences (SVCAHS). This edition showcases the academic achievements, research initiatives, community outreach activities and vibrant student life that have shaped another successful year at our institution.

Under the able leadership of Vidhya Shri Prof. Dr. C. Ananda Vayaravel, Dean, SVCAHS, the institution continues to grow as a centre of excellence in Allied and Healthcare Sciences, producing skilled healthcare professionals who contribute meaningfully to the society.

I congratulate the faculty members, students and editorial team for their dedication and efforts in bringing out this magazine. May SVCAHS continue to achieve greater milestones in education, innovation and healthcare service.

Shri B. Ramachandiran
CHAIRMAN
SRI VENKATESHWARAA GROUP OF INSTITUTIONS (SVGI)

FROM THE DESK OF

MANAGING DIRECTOR



It is a great pleasure to present ALLIEDZINE 2K26, a reflection of the achievements, talents and vibrant spirit of the SVCAHS family.

This magazine brings together the academic excellence, research activities, community outreach programmes, and creative contributions of students and faculty across all departments. It stands as a testament to the institution's commitment to nurturing skilled, compassionate and future-ready healthcare professionals.

I congratulate Dean, the faculty members, students and editorial team of SVCAHS for their dedication and collective efforts in bringing out this edition.

May SVCAHS continue to grow as a centre of excellence, inspiring innovations, service and lifelong learning.

Mr. R. Rajiv Krishna
MANAGING DIRECTOR,
SRI VENKATESHWARAA GROUP OF INSTITUTIONS (SVGI)

FROM THE DESK OF

CHIEF OPERATING OFFICER



With great pleasure, I present ALLIEDZINE 2K26, the annual magazine of Sri Venkateshwaraa College of Allied and Healthcare Sciences. This publication reflects the enthusiasm, creativity and accomplishments of our students and faculty members throughout the academic year. Beyond academics, the magazine serves as a platform for students to showcase their talents, ideas and achievements, fostering confidence, innovation and holistic development. It is encouraging to witness the active participation and collaborative efforts of all departments in making this edition a meaningful success.

I extend my sincere appreciation to the entire SVCAHS for their dedication and commitment in bringing out this wonderful publication.

Dr. B. Vidhya
CHIEF OPERATING OFFICER
SRI VENKATESHWARAA GROUP OF INSTITUTIONS (SVGI)

FROM THE DESK OF

DIRECTOR



I take great pride in presenting ALLIEDZINE 2K26, the annual magazine of Sri Venkateshwaraa College of Allied and Healthcare Sciences. This magazine celebrates the academic achievements, creative talents, and vibrant campus life of our students and faculty, reflecting the spirit of excellence and innovation that defines our institution.

It serves as a valuable platform for students to express their ideas, showcase their literary and artistic abilities, and celebrate their accomplishments beyond the classroom. It encourages creativity, communication and confidence while fostering a culture of learning and innovation. I am delighted to see the enthusiastic contribution from students and faculty across various departments, making this edition a true reflection of the institution's spirit and excellence. My sincere appreciation goes to Dean, the editorial team, faculty members and students of SVCAHS for their dedication and hard work in bringing out this magazine successfully.

May this magazine inspire every reader to strive for excellence, embrace innovation, and reach the pinnacle of success in both academic and professional pursuits.

Dr. S. Ratnasamy
DIRECTOR
SRI VENKATESHWARAA MEDICAL COLLEGE,
HOSPITAL, & RESEARCH CENTRE (SVMCH&RC)

FROM THE DESK OF

CHAIRPERSON (NCAHP)



It is a pleasure to extend my greetings to the students, faculty members, and readers of this magazine. The establishment of the National Commission for Allied and Healthcare Professions (NCAHP) marks a transformative step towards standardising education, professional regulation, and workforce development in the Allied and Healthcare sector. With the increasing demand for skilled healthcare professionals, the future offers immense opportunities for Allied Health graduates in areas such as advanced diagnostics, digital health, artificial intelligence, precision medicine, rehabilitation sciences, and community healthcare. NCAHP remains committed to strengthening the quality, recognition, and global mobility of Allied and Healthcare Professionals across India.

I appreciate the efforts of Sri Venkateshwaraa College of Allied & Healthcare Sciences in promoting academic excellence, innovation, research, and community engagement. The achievements and activities showcased in this magazine reflect the institution's commitment to developing healthcare professionals dedicated to service and lifelong learning.

I congratulate the management, faculty members, students, and the editorial team on their accomplishments and wish them continued success in all their future endeavours.

WITH WARM REGARDS,
Dr. Yagna Unmesh Shukla(PhD)
CHAIRPERSON
NATIONAL COMMISSION OF ALLIED
& HEALTHCARE PROFESSIONS (NCAHP)



FROM THE DESK OF

MEDICAL SUPERINTENDENT

It gives me great pleasure to congratulate the Editorial Board and contributors on the publication of ALLIEDZINE 2K26. This publication stands as a testament to the intellectual vigour and creative spirit that defines our institution. Through its collection of articles, research contributions and student accomplishments, it serves as a platform for learning, creativity and professional growth.

I extend my sincere appreciation to Dean of SVCAHS, for his visionary leadership and unwavering commitment to academic excellence. I also commend the students and faculty members whose dedication has made this publication possible.

I wish ALLIEDZINE 2K26 continued success in inspiring future healthcare professionals and promoting excellence in allied health sciences.

Dr. G. Josephraj
MEDICAL SUPERINTENDENT, SVMCH & RC

FROM THE DESK OF

DEAN



It gives me immense pleasure to connect with the Allied and Healthcare fraternity across India through this edition of the SVCAHS magazine, ALLIEDZINE 2K26.

At Sri Venkateshwaraa College of Allied and Healthcare Sciences, we remain steadfast in our commitment to academic excellence, research and quality healthcare education. Our mission is to nurture competent Allied and Healthcare professionals who serve society with knowledge, compassion, integrity and professionalism.

I am honoured and privileged to serve as a member of the Central Professional Council for Medical Laboratory and Life Sciences (MLLS) under the National Commission for Allied and Healthcare Professions (NCAHP), New Delhi. This responsibility provides me with an opportunity to contribute to the advancement of the MLLS fraternity by participating in curriculum development, including the formulation of the Medical Laboratory Sciences syllabus and by promoting awareness of the vision, mission and objectives of NCAHP across the country.

The establishment of NCAHP has marked a significant milestone in standardizing Allied and Healthcare education and strengthening professional recognition within healthcare services. At SVCAHS, we continuously align our academic and clinical practices with these national standards to ensure excellence in education, training and patient care.

I sincerely appreciate the unwavering dedication of our faculty members, students and management for their continuous support and valuable contributions to the growth and success of our institution.

I extend my best wishes to all readers for a meaningful, enriching and inspiring experience through this edition of the magazine.

Vidhya Shri Prof. Dr. C. Ananda Vayaravel,

EDITOR-IN-CHIEF,
JOURNAL OF MULTIDISCIPLINARY HEALTH AND INNOVATIVE TECHNOLOGY (JMHIT),
PROFESSIONAL COUNCIL MEMBER,
NATIONAL COMMISSION FOR ALLIED AND HEALTH CARE PROFESSIONALS (NCAHP),
THE DEAN,
SRI VENKATESHWARAA COLLEGE OF ALLIED & HEALTHCARE SCIENCES.

FROM THE DESK OF

EDITORIAL BOARD

With great pleasure and a deep sense of accomplishment, we present ALLIEDZINE 2K26, a publication that mirrors the collective achievements, aspirations and vibrant spirit of the Sri Venkateshwaraa College of Allied and Healthcare Sciences family.

This magazine is more than a compilation of articles and photographs; it is a chronicle of our journey, capturing the milestones, innovations, academic pursuits and memorable moments that have defined the year. It showcases the dedication of our students, the expertise of our faculty members and the continuous efforts of our institution to nurture competent healthcare professionals committed to serving society. The pages of this edition highlight a diverse range of activities, including academic accomplishments, research initiatives, conferences, workshops, community outreach programmes, cultural celebrations and student achievements. Together, these contributions reflect the dynamic learning environment and the pursuit of excellence that characterize our institution.

We extend our sincere gratitude to our respected Dean, Vidhya Shri Prof. Dr. C. Ananda Vayaravel sir for his steadfast support, insightful guidance and continuous encouragement. His dedication to fostering academic excellence and innovation has been instrumental in shaping this publication, and his support remains a driving force behind our accomplishments and ongoing development.

We also acknowledge the invaluable contributions of our faculty members, student contributors, photographers, designers, reviewers and editorial team. Their creativity, dedication and teamwork have played a vital role in bringing this publication to life.

As we release ALLIEDZINE 2K26, we hope it serves as a source of inspiration, knowledge and pride for every reader. It preserve the memories of today, celebrate the achievements of our community and motivate future generations to pursue excellence in allied health sciences.

Thank you for being a part of this journey and for contributing to the continued success of the SVCAHS family.



EDITOR

Mrs. A. Anbuoli, M.Optom
SENIOR ASSISTANT PROFESSOR
DEPT OF OPTOMETRY, SVCAHS





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DEPT OF AECT, SVCAHS

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LECTURER, DEPT OF ENGLISH,
SVCAHS

ALUMNI
TESTIMONIALS



Priya Dharshini S,
B.Sc. MLT (2022–2025), M.Sc. Hematology & Blood Transfusion, MGMCRI, Puducherry.

My journey at SVCAHS provided me with a strong academic foundation and valuable practical exposure in Medical Laboratory Technology. The guidance of dedicated faculty members, modern laboratory facilities and clinical training helped me develop the confidence and skills required for higher studies and professional growth. I am grateful to the institution for shaping my career and preparing me for future challenges.



Sushma M,
B.Sc. MLT (2022–2025), M.Sc. MLT (Pathology), MGMCRI–SBV, Puducherry.

SVCAHS played a significant role in my academic and personal development. The supportive faculty, hands-on training and enriching learning environment helped me build a strong foundation for postgraduate studies. I will always cherish the memories and experiences gained during my time at the institution.



Frieda Jonas,
B.Sc. MLT (2022–2025), M.Sc. MLT (Pathology), MGMCRI, Puducherry.

My experience at SVCAHS was both rewarding and transformative. The institution provided excellent academic training, practical exposure and opportunities to enhance my technical skills. I am proud to be an alumnus and thankful for the guidance that continues to support my professional journey.



Divya Dharshini B,
B.Sc. MLT (2022–2025), M.Sc. MLT (Pathology), MGMCRI, Puducherry.

SVCAHS equipped me with strong theoretical knowledge, clinical skills and professional values. The faculty's encouragement and the institution's commitment to quality education helped me grow with confidence and competence. I am grateful for the opportunities and lifelong learning experiences gained during my academic journey.

SVCPMS AHPCON - 2K25

INTERNATIONAL CONFERENCE FOR ALLIED HEALTH PROFESSIONALS









SVCAHS successfully organized the International Conference for Allied Health Professionals—SVCPMS AHPCON-2K25 on 21st and 22nd August 2025 at Sai Auditorium under the theme "Redefining Healthcare: The Vital Role of Allied Health Professionals."

The conference, organized in association with the Southern Optometrists Federation (SOF), Society of Indian Radiographers (SIR) and Tamil Nadu Operation Theatre and Anaesthesia Technologists Association (TNOTATA), witnessed the enthusiastic participation of 689 students, faculty members, researchers and healthcare professionals.

The conference featured scientific sessions by eminent experts including Dr. Niranjan Gopal (AIIMS Nagpur), Dr. Mohan V.K. (JIPMER), Dr. Rashima Asokan (Sankara Nethralaya), Mr. Akash R., Mr. Mohamed Akram K.A. (United Kingdom—Virtual Session), Dr. Parivalavan Rajavelu (Sundaram Medical Foundation, Chennai) and Dr. Suresh Seshadri (Medi Scan, Chennai). The sessions covered quality management systems, critical care monitoring, occupational optometry, overseas career opportunities and advancements in cardiac healthcare technologies.

SVCPMS AHPCON-2K25 served as an excellent platform for interdisciplinary learning, academic exchange, research interaction and professional networking among Allied Health Professionals. The conference concluded successfully, inspiring participants towards innovation, research and excellence in healthcare delivery.

"Empowering Allied Health Professionals to Transform the Future of Healthcare."

National Operation Theatre and Anaesthesia Technologist Day Celebration – 2025

Department of OT&AT celebrated National OT and Anaesthesia Technologist Day on 30 July 2025 with a guest lecture and hands-on workshop. The event witnessed active participation from 120 students, faculty members, and Technologists. It commenced with a traditional lamp-lighting ceremony led by Prof. Dr. Ananda Vayaravel and Prof. Dr. Arish (PIMS). Dr. Arish delivered an informative session on resuscitation essentials, followed by practical Basic Life Support (BLS) training. Cultural performances added enthusiasm to the celebration. The programme emphasized the vital role of OT and Anaesthesia Technologists while strengthening participants' emergency response skills, teamwork, and commitment to quality patient care.






Heartfulness Meditation Programme

SVCAHS has organized a two-day Heartfulness Meditation Programme on 8th & 9th August 2025 to promote mindfulness, stress management, and holistic well-being among students and staff. The programme witnessed active participation from 100 students, teaching faculty members. The event commenced with the presence of Vidhya Shri Prof. Dr. C. Ananda Vayaravel, Dean, SVCAHS, along with Mr. Sathyakannan, Heartfulness, Trainer. Participants gained valuable insights into managing stress, improving concentration, and maintaining inner balance.





MoU Signing Ceremony between SVCAHS and Heartfulness Educational Trust

Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS) and the Heartfulness Educational Trust, Puducherry, signed a Memorandum of Understanding (MoU) on 24th September 2025 to promote emotional wellness, mindfulness and holistic development among students. The programme supports value-based education, personal growth, emotional resilience, and overall well-being, reflecting the institution's commitment to holistic student development.






HOOKED ON SCREENS

THE DOPAMINE - DRIVEN SCIENCE OF DIGITAL ADDICTION



INTRODUCTION

In today's digital age, smartphones, social media, online gaming and streaming platforms have become an essential part of daily life. While technology has enhanced communication, education and entertainment, excessive screen use has led to a growing behavioural health concern known as digital addiction. Although it does not involve a chemical substance, digital addiction activates the brain's reward pathways in ways similar to substance dependence (Volkow et al., 2016; Kuss & Griffiths, 2017). Adolescents and young adults are particularly vulnerable due to their frequent use of digital technologies.

HEALTH CONSEQUENCES

Prolonged screen time often promotes sedentary behaviour, increasing the risk of obesity, cardiovascular disease and metabolic disorders (Twenge & Campbell, 2018). Research also suggests that repeated digital stimulation may reduce dopamine receptor sensitivity, requiring more frequent digital engagement to achieve the same level of satisfaction (Volkow et al., 2016). Individuals attempting to reduce screen use may experience irritability, restlessness, boredom and difficulty concentrating.



DOPAMINE AND THE REWARD SYSTEM

The brain is naturally designed to seek rewarding experiences. Dopamine, a neurotransmitter associated with pleasure and motivation, plays a key role in reinforcing behaviours. Digital platforms are specifically designed to stimulate dopamine release through notifications, likes, comments, messages and gaming rewards. Each interaction acts as a small reward signal, encouraging repeated engagement. Over time, the brain associates screen use with pleasure, strengthening the habit (NIDA, 2024; Montag & Wegmann, 2021).



RESTORING BALANCE

Maintaining a healthy relationship with technology requires conscious effort. Regular physical activity, mindfulness practices, adequate sleep, balanced nutrition and scheduled digital detox periods can help restore neurochemical balance and reduce screen dependency. Encouraging face-to-face social interactions also promotes emotional well-being (APA, 2023; UNICEF, 2024).

BEYOND DOPAMINE

Digital addiction also affects other important neurochemicals. Serotonin, which regulates mood and self-esteem, can be influenced by online interactions. Positive feedback may temporarily boost confidence, while negative experiences can contribute to anxiety and loneliness (Lin et al., 2016).

Excessive screen exposure may also increase cortisol, the body's primary stress hormone. Elevated cortisol levels are associated with poor concentration, anxiety, emotional exhaustion and sleep disturbances (WHO, 2022). Furthermore, blue light emitted by electronic devices suppresses melatonin, delaying sleep onset and reducing sleep quality (National Sleep Foundation, 2023).

CONCLUSION

Digital addiction is a modern behavioural challenge rooted in the neurochemistry of reward and reinforcement. Understanding how dopamine, serotonin, cortisol and melatonin influence behaviour can help individuals make healthier choices and maintain balance in an increasingly connected world.
"Technology should be a tool that empowers the mind, not a stimulus that controls it."



M. Malinidevi
SENIOR ASSISTANT PROFESSOR,
DEPT OF BIOCHEMISTRY, SVCAHS.

World Microbiology Day & International Microorganism Day 2025

Department of Medical Laboratory Sciences (MLS) celebrated World Microbiology Day and International Microorganism Day on 17 September 2025 under the theme "Into the Microverse: A Microbial Galaxy Awaits." The programme featured a keynote lecture by Dr. Meenakshi Shanmugaraja, Assistant Professor, Department of Biotechnology, SRM Institute of Science and Technology (SRMIST), Chennai, on E. coli Nissle 1917 and its therapeutic applications in modern medicine. On the occasion Micro-Expo and Vlog competitions was conducted for students, demonstrating their creativity, scientific knowledge, and innovative ideas. The celebration successfully fostered scientific curiosity, research aptitude, and awareness of the vital role of microorganisms in healthcare, biotechnology, and sustainable development.






SVCAHS Orientation Programme 2025

A five-day Orientation Programme for newly admitted B.Sc. students (Batch 2025–2026) was organised from 22 to 26 September 2025. The programme focused on academic readiness, personality development, communication skills, leadership, and career planning. Expert sessions on artificial intelligence, interview skills, time management, critical thinking, and resume writing were conducted. Students also participated in Heartfulness meditation sessions and clinical visits. Cultural events, competitions, and the inauguration of Tamizh Mandram added vibrancy to the programme. The event successfully prepared students for their academic and professional journey.




Placement Drive on Medical Coding

SVCAHS organized a Placement Drive on Medical Coding in collaboration with Thought Flows Medical Coding Academy on 27 September 2025. The programme introduced students to diverse career opportunities in healthcare documentation and medical coding. Industry experts explained coding systems such as ICD-10 and CPT, highlighting their significance in healthcare organizations and insurance sectors. Interactive sessions enabled students to understand certification pathways, essential coding skills, and interview preparation strategies. The placement drive successfully enhanced students' awareness of emerging career opportunities, strengthened their employability skills, and encouraged them to pursue professional careers in the rapidly growing medical coding industry.





WorldHeart Day 2025

Cardiac Core25





On 29th September 2025, the Department of Cath Lab Technology, Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), organized a World Heart Day awareness programme titled "CARDIAC CORE-2025" at Theerar Sathyamoorthy Government Higher Secondary School, Murungapakkam, Puducherry. Based on the theme "Don't Miss a Beat," the programme educated students on cardiovascular disease prevention and heart health. Interactive sessions, a health awareness skit, and a live CPR demonstration were conducted. The event enhanced awareness of healthy lifestyle practices and emergency response skills among school students.

World Sight Day 2025





Department of Optometry celebrated World Sight Day 2025 by organizing a Vision Screening Programme from 7 October 2025 to 9 October 2025 through. Based on the theme "Love Your Eyes!" Optometry faculty and students conducted comprehensive vision assessments and provided guidance on visual hygiene and preventive eye care. More than 200 students and faculty members benefited from the screening programme. The programme emphasized the importance of eye health, early detection of vision problems and regular eye examinations. The initiative successfully promoted awareness of eye health and reinforced the importance of preserving vision through timely screening and healthy eye care practices.

Advances and Clinical Applications

NEXT-GEN MRI





The Department of Medical Radiology and Imaging Technology (MRIT) organized a Continuing Radiological Education (CRE) Programme on 8 October 2025 on the theme "Next-Gen MRI: Advances and Clinical Applications." The programme focused on recent advancements in Magnetic Resonance Imaging (MRI) and their clinical applications. Expert speakers delivered informative sessions on Perfusion Imaging, Diffusion-Weighted Imaging, MR Angiography, Functional MRI, Cardiac MRI and BOLD Imaging. The event provided valuable academic and clinical insights to students and faculty, enhancing their understanding of emerging MRI technologies, advanced imaging techniques and contemporary radiological practices.

Optometry Guest Lecture
Series 2025





The Department of Optometry, organized two sessions under the Guest Lecture Series – 2025. On 16 October 2025, Ms. Pearly Emerald T, Assistant Professor, The Sankara Nethralaya Academy, Chennai, delivered a lecture on "Ocular Microbiology," highlighting ocular infections, diagnostic techniques and preventive strategies. On 22 October 2025, Mr. Mohamed Halith, Assistant Lecturer, Vasthraa Institute of Science and Management, Madurai, presented a session on "Ocular Pathology," focusing on pathological changes in ocular tissues and their clinical significance. Both lecture enhanced students' theoretical knowledge, clinical understanding, and diagnostic skills in eye care practice.

International Conference
at SVMCH&RC

On 19 November 2025, B.Sc. Medical Laboratory Technology students have participated in the one-day international conference, "Microbes Endangering Public Health: An Invisible Threat," held at Sai Lecture Hall, SVMCH&RC, Ariyur. The conference highlighted emerging microbial threats and their impact on global public health. The programme provided valuable scientific insights and enhanced students' awareness of current challenges in microbiology and healthcare.



World Antimicrobial
Awareness Week–2025



As part of World Antimicrobial Awareness Week 2025, the Department of Medical Laboratory Sciences, organized a National Level Poster Competition titled"Students Talentia" on 22 November 2025 in hybrid mode. The event was conducted under the theme "Act Now: Protect Our Present, Secure Our Future," emphasizing the urgent need to combat antimicrobial resistance. Students from various Allied and Healthcare institutions participated enthusiastically, presenting innovative posters on responsible antibiotic use, infection prevention and antimicrobial stewardship. The competition promoted scientific creativity, awareness and commitment towards safeguarding public health.

A Race against Time - THE GOLDEN HOUR

(Why Every Minute Matters in Trauma Care)

Trauma resulting from road traffic accidents, falls, burns and other emergencies remains a major cause of death and disability worldwide. The concept of the Golden Hour highlights the importance of the first sixty minutes following a serious injury. During this critical period, rapid assessment, timely transportation and appropriate medical treatment can significantly improve survival and recovery.



What is the Golden Hour?

The Golden Hour refers to the crucial period immediately after a traumatic injury when prompt medical intervention offers the greatest chance of preventing death and reducing long-term complications.

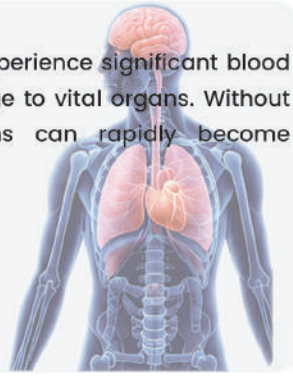
"The sooner treatment begins, the better the outcome."

The Science of Survival

Following a severe injury, the body may experience significant blood loss, breathing difficulties, shock or damage to vital organs. Without immediate intervention, these conditions can rapidly become life-threatening.

Early trauma care focuses on:

- Maintaining a clear airway
- Ensuring adequate breathing
- Controlling bleeding
- Restoring circulation



Every minute of delay increases the risk of irreversible damage to the brain, heart and other vital organs.

The Critical Signs: When Every Second Counts

Seek emergency medical care if a person experiences:

- Severe bleeding
- Difficulty breathing
- Loss of consciousness
- Severe head injury
- Suspected spinal injury
- Major burns
- Signs of shock (cold skin, weakness, confusion)

Remember:

Never assume an injured person is stable simply because they are awake and talking. Serious internal injuries may not be immediately visible.

Golden Hour Myths Debunked

Myth 1: If there is no visible bleeding, the injury is not serious.
Fact: Internal bleeding can be life-threatening and may not be immediately apparent.

Myth 2: It is better to wait and see if symptoms improve.
Fact: Delaying treatment can worsen injuries and reduce survival chances.

Myth 3: Only healthcare professionals can save lives during the Golden Hour.
Fact: Early actions by bystanders, including activating emergency services and providing basic first aid, can make a critical difference.

Your Role can Save a Life: In emergencies, every second counts—your quick action can save a life. Knowing when to call for help and provide basic first aid can reduce disability and improve survival.

"In trauma care, time lost is life lost. Every minute matters, every action counts and every life is worth saving."



Mr. Thottadharani
ASSISTANT PROFESSOR,
DEPT. OF AECT, SVCAHS

GUEST LECTURE ON

ADVANCED CLINICAL TOXICOLOGY



The Department of Accident and Emergency Care Technology (AECT), organized a Guest Lecture Series on "Advanced Clinical Toxicology: From Poison Identification to Emergency Management" on 12 January 2026. Dr. Mamta Madhiyazhagan, MBBS, MRCEM, MEM, GDSM, delivered an insightful session on poison identification, clinical manifestations, and emergency management of toxicological cases. Real-life case discussions enhanced students' understanding of emergency care practices. The programme strengthened participants' clinical knowledge, critical thinking, and preparedness in managing toxicological emergencies.

WORLD OPTOMETRY DAY 2026

The Department of Optometry, Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), in association with the Southern Optometrists Federation, celebrated World Optometry Day 2026 on 23 March 2026 under the theme "A Shared Vision: Collaboration in Global Eye Care." Kalaimamani Dr. R. Thamizhvanan, Founder Chairman, Southern Optometrists Federation, Puducherry, delivered an enlightening session on the importance of eye donation and creating awareness about corneal blindness. A model exhibition on eye health awareness showcased students' knowledge of eye anatomy, vision, eye disorders, and preventive care. The programme enhanced awareness of eye health, eye donation, and the role of collaborative efforts in global eye care.





CARDIO TECH CONNECT 2026





The Department of Cath Lab Technology organized Cardio Tech Connect–2026, a Continuing Medical Education (CME) Programme, on 20 February 2026. The programme featured expert speakers Prof. Dr. Mark Christopher M.D, D.M, Freelance cardiology practitioner Puducherry and Dr. Uma Maheswari M, Assistant professor, SAHS, VMRF – DU, discussed recent advances in coronary angiography, angioplasty techniques, and 3D echocardiography. The sessions highlighted emerging cardiovascular technologies, modern diagnostic procedures, and innovations in interventional cardiology. Students gained valuable insights into the latest developments in cardiac healthcare and their clinical applications. The programme successfully enhanced their academic knowledge, technical expertise, and professional competencies, preparing them to meet the evolving demands of contemporary cardiovascular care.

PRE RESEARCH DAY 2k26

Pre-Research Day 2026 was successfully organized on 18 March 2026 with the theme "Bridging Tomorrow—AI, Innovation and Human Intelligence in Health Care." The programme aimed to strengthen research culture among students and faculty by promoting innovation, evidence-based practice, and interdisciplinary collaboration in healthcare.

The lecture was delivered by Dr. Raghavi. R, Assistant Professor, MGMCRI, Puducherry, who highlighted the transformative role of artificial intelligence and emerging technologies in healthcare. The session emphasized the integration of AI with clinical practice while reinforcing the importance of ethical decision-making, human intelligence, and patient-centered care.

The programme was conducted under the guidance of the institution's management and Dean, Prof. Dr. C. Ananda Vayaravel whose continued support has fostered research excellence and innovation within the institution. The event provided an excellent platform to inspire scientific thinking and encourage active participation in research among the Allied Health Sciences community.



Freshers Day
CELEBRATION 2026







Sri Venkateshwaraa College of Allied & Healthcare Sciences **(SVCAHS)**, Puducherry, celebrated Freshers' Day 2026 on 20th April 2026 at SAI Auditorium, SVMCH&RC. Organized by AHS Mednovas–Dazzling Dawns, the event warmly welcomed the new batch of students. The programme included Tamil Thai Vazhthu, lamp lighting, motivational speeches and cultural performances. The celebration fostered friendship, confidence and a sense of belonging among freshers and seniors.

"Every Great Journey Begins with a Warm Welcome and a Dream to Achieve."

BIO-INSTRUMENTATION
INTERNATIONAL WEBINAR



Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), Ariyur, Puducherry, co-organized an International Webinar on Advanced Microscopy in collaboration with Universiti Tunku Abdul Rahman (UTAR), Malaysia, on 13 September 2025. The webinar highlighted recent advances in electron microscopy and biomedical imaging. Experts shared insights into modern imaging technologies and their applications in research and clinical diagnostics. The interactive sessions enhanced students' scientific knowledge and encouraged research-oriented learning. The programme strengthened international academic collaboration and promoted innovation in allied health sciences.

DONATE BLOOD
Save Lives





The Institutional Red Ribbon Club of Indirani College of Nursing, in collaboration with the Blood Centre, SVMCH&RC, Uyirthuli Foundation, Puducherry, and Blood Bank, JIPMER, organized a Blood Donation Camp on 28 April 2026 at the Nightingale Auditorium, ICON, Ariyur, Puducherry. The camp was conducted to commemorate the beloved Chairman's Birthday and promote voluntary blood donation for supporting Thalassemia and Cancer Patients. Around 35 students from our college actively participated in this noble initiative. The programme created awareness about the importance of blood donation, encouraged social responsibility and reflected the institution's commitment to community service and healthcare support. "One Donation Can Save Many Lives."

AI AND TELE-OPTOMETRY

SHAPING THE FUTURE OF EYE CARE

Artificial Intelligence (AI) and tele-optometry are transforming eye care delivery in India, moving from pilot projects to full-scale patient services. In 2026, hospitals and institutes are embedding these technologies into daily practice across clinics and outreach programs to improve diagnostic accuracy, expand rural access, and enhance patient engagement for millions.

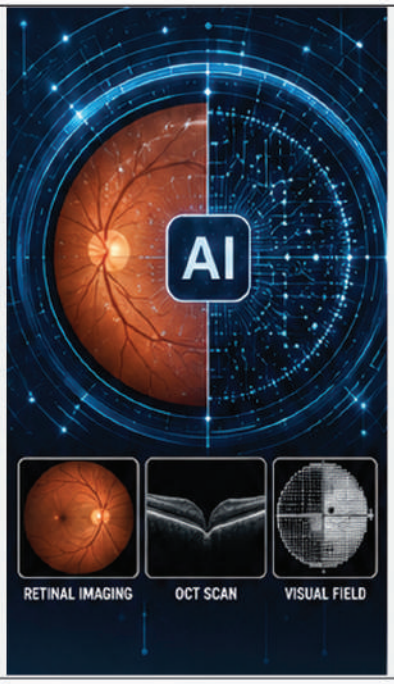


AI in Clinical Practice:

• Early Detection: AI driven multimodal platforms combine retinal imaging, OCT scans, and visual field data. Detects diabetic retinopathy, glaucoma, and age related macular degeneration earlier than traditional methods.

• Predictive Care: Algorithms forecast disease progression, enabling doctors to personalize treatment plans.

• Beyond Diagnostics: Voice based AI feedback systems capture patient experiences in multiple languages. Hospitals translate feedback into actionable insights improved satisfaction and streamlined operations.



Tele-Optometry: Bridging the Rural-Urban Divide:

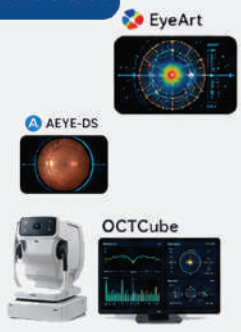
• Hub and Spoke Model:
- Vision technicians in villages capture high quality eye images and transmit them to specialists in tertiary centres review remotely. - Majority of patients managed locally fewer referrals, reduced travel costs.

• Mobile Applications:
- Validated apps measure near and distance visual acuity with reasonable accuracy. - Classify severity levels guide patients on urgent referrals.

• Community Impact: School eye health programs and outreach camps benefit from early detection of refractive errors and diabetic eye disease. Such tools are particularly valuable in school eye health programs and community outreach camps, where early detection of refractive errors and diabetic eye disease can prevent long-term vision loss.

Global Trends Meeting Local Needs:

Globally, AI systems like EyeArt and AEYE-DS have been cleared for autonomous diabetic retinopathy screening, and advanced imaging platforms such as OCTCube are being used to predict systemic health risks from retinal scans. Indian institutions are adapting these innovations to local contexts, ensuring that technology is both cutting-edge and accessible.





Challenges Ahead:

Despite progress, challenges remain. AI algorithms must be trained on diverse datasets to avoid bias, and tele-optometry programs need strong regulatory frameworks to ensure patient data privacy. Integration into existing health systems requires careful pathway design to prevent fragmented care.

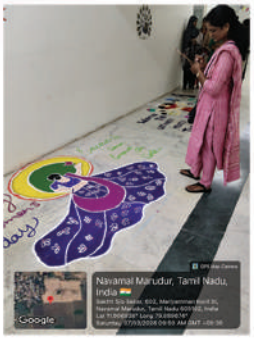




Ms. LakshmiPriya
ASSISTANT PROFESSOR
DEPT. OF OPTOMETRY, SVCAHS

WOMEN'S DAY - 2026

International Women's Day 2026 was celebrated on 7 March 2026 with the inspiring theme "Give to Gain." The celebration created an atmosphere of unity and empowerment. A Rangoli Competition was conducted, which encouraged students to express the spirit of womanhood through creativity and teamwork. Distinguished guests delivered inspiring sessions on women's empowerment, health and social responsibility. Mrs. Shanmugasathia, Sub Inspector of Police, spoke on "Dowry System—A Special Evil," while Dr. Ragavi presented an awareness talk on "Anaemia: The Invisible Epidemic." Women staff members were felicitated for their dedicated service to the institution with a token of gift. The celebration highlighted the importance of equality, health awareness and respect for women while motivating students to become responsible and compassionate citizens. The event concluded with the National Anthem, leaving participants inspired and empowered.











GUEST LECTURE

OCULAR BIOCHEMISTRY

The Department of Optometry, organized a Guest Lecture Series–2026 on 24 June 2026. The session featured Dr. S. Vandhana, Associate Professor & Head, Department of MLT, The Sankara Nethralaya Academy, Chennai, who delivered an insightful lecture on "Ocular Biochemistry." The lecture covered the biochemical aspects of ocular tissues, tear film, oxidative stress, antioxidants and common eye disorders. Through interactive discussions and clinical examples, students gained valuable knowledge on the role of biochemistry in vision care. The programme enriched academic learning and inspired students to explore advances in ocular research.





COMPETENCY ENHANCEMENT CELL

Sri Venkateshwaraa College of Allied and Healthcare Sciences initiated a COMPETENCY ENHANCEMENT CELL on 13 June 2026 to enhance students' personal and professional competencies. The programme featured a psychology session on "Emotional Intelligence for Personal and Professional Success," where students learned about self-awareness, emotional regulation, empathy, stress management and effective communication through interactive activities and discussions. The session inspired students to build emotional resilience, confidence and positive interpersonal relationships. Overall, the programme provided valuable insights into emotional intelligence, equipping students with essential life skills for academic success and future healthcare careers.





GUEST LECTURE ON
RESEARCH METHODOLOGY

A Research Orientation Programme on Research Methodology was organized on 06 June 2026. The session was delivered by Dr. Kuzhandai Velu V., Associate Professor, Department of Biochemistry, Takshashila Medical College Hospital, Tindivanam. The programme focused on research design, literature review, data collection, statistical analysis, research ethics, manuscript preparation and scientific publication. Participants from SVCAHS and SVCOPT in the interactive session, gaining valuable insights into conducting quality research and promoting evidence-based healthcare practices.





SVCAHS

SVCAHS SPOTLIGHT

Celebrating Traditions
Creating Memories











FRESHER'S DAY









AYUTHA POOJAI









CHRISTMAS







ONAM










PONGAL

Sri venkateshwaraa

College of Allied Healthcare sciences

SVCAHS

ENTER TO LEARN , GO FORTH TO SERVE



Not Me But You

The Nss unit of SVCAHS IS Committed to build a better society through service, awareness and empowerment to create a positive impact in the community and Nation.

HIGHLIGHTS OF THE YEAR

30+	100+	500+	10+	Countless
Activities	Volunteers	Beneficiaries	Awareness Program	Smiles created

Academic year

2025-2026

Journey Through Service



16 Oct 2025
NSS Orientation Programme



18 Oct 2025
Smoke-Free Diwali Awareness Programme



29 Oct 2025
Essay Writing Competition – Sardar@150



30 Oct 2025
Yoga Wellness Programme –Sardar@150



31 Oct 2025
National Unity Run – Ek Bharat, Atmanirbhar Bharat



31 Oct 2025
Special Lecture on Sardar Vallabhbhai Patel

17 Nov2025
Physiotherapy & Fitness Awareness Camp for School Students



18 Nov 2025
Guest Lecture on Sexual Harassment Awareness



25 Nov 2025
Essay Competition on Constitution Day



25 Nov 2025
Debate Competition on Constitution Day



26 Nov 2025
Quiz Competition on Constitution Day



26 Nov 2025
Guest Lecture on Constitutional Values



Journey Through Service



02 Dec 2025
International day of persons with Disabilities



15 Dec 2025
World Meditation Day -Mindl-fullness and Well-being session



27 Dec 2025
Guest Lecture: Situational Awareness and Risk Mitigation



31 Dec 2025
Traffic Police Volunteer Support for Crowd Management duty on New Year eve



28 Jan 2026
Vision Screeening Programme for School Students



17 Feb 2026
Viksit Bharat – YUVA Connect

22 May 2026
International Day of Biological Diversity



28 May 2026
International Day of Action for Women's Health



30 May 2026
World No Tobacco Day-2026



05 June 2026
World Environment Day-2026



08 June 2026
World Ocean Day-2026 PLOGGING DRIVE



24 June 2026
International Yoga Day-2026



COMMUNITY OUTREACH

Creating Impact, Changing Lives



NSS Impact

The best way to find yourself is to lose yourself in the service of others

- Mahatma Gandhi

Not Me, But You

FACULTY PUBLICATIONS

SL.NO	NAME OF THE FACULTY	DESIGNATION	TOPIC OF THE ARTICLE
1	Ms. Ezhilarasi .D	Assistant Professor in Radiology	The Significance of Non-Echo-Planar Diffusion-Weighted Imaging (Non-Ep-Dwi) in Minimizing Air-Bone Interface Artefact for Enhancing Image Quality In Comparison to Echo-Planar Diffusion-Weighted Imaging (Ep-Dwi) in MRI Brain Scans. (JMHIT)
2	Mr. Gukan Raj .N	Assistant Professor in Radiology	Enhancing Time Management in MRI Brain Imaging for Non-Cooperative Patients: Comparing T2 TSE Axial with T2 Multivane Axial Sequence (JMHIT)
3	Mr. Nishanth .B	Assistant Professor in AECT	"Postoperative Glycemic Variability in Non-Diabetic Patients after Regional Anaesthesia: A Prospective Observational Study" (JMHIT)
4	Mr. Vijaianand .S	Assistant Professor in Biochemistry	The Influence of HbA1c Levels on Clinical Outcomes in Diabetic Patients Following Percutaneous Coronary Intervention. 2026 Journal of Indian College of Cardiology | Published by Wolters Kluwer –Medknow Publishedon : 13-Jan-2026
5	Mrs .Malini Devi M	Assistant Professor in Medical Lab Technology	Title: "Aminotransferase-to-Platelet Ratio Index for Sepsis-associated Liver Dysfunction: Promising Triage Signal but Phenotype Confounding and Implementation Calibration Must Be Intensive Care Unit Ready"Published in: Indian Journal of Critical Care Medicine, Vol. 30, Issue 2 (February 2026), Pages 177–178DOI: 10.5005/jp-journals-10071-25122
6	Mr.Siva	Assistant Professor in CLT	Factors Associated with vascular complications in individual undergoing cardiac catheterization Journal: ACTA BIOMEDICA Published On: 26/04/2026
7	Mrs. Aswini V	Assistant Professor in Medical Lab Technology	Determination of mCIM and eCIM production and susceptibility pattern of Carbapenemase producing Enterobacterales and Pseudomonas aeruginosa against Ceftriaxone – Sulbactam with Disodium EDTA. ZHUZAO/FOUNDRY,Vol.28,Issue 10 2025,Pages 209-218 Manuscript Id:FJ25/C866

STUDENTS TOUR

















OVERSEAS OPPORTUNITIES FOR
OPERATION THEATRE & ANAESTHESIA TECHNOLOGIST STUDENTS

Explore. Learn. Excel. Go Global.





1. GLOBAL DEMAND

- Growing demand for qualified Operation Theatre & Anaesthesia Technologists across the globe.
- Excellent employment opportunities in the Gulf countries, Europe, the United Kingdom, Australia, New Zealand, Canada, and other international healthcare systems.
- Expanding role of allied health professionals in advanced surgical and critical care settings.

2. CAREER OPPORTUNITIES

Qualified professionals can work in:

- Operation Theatre Services & Anaesthesia Departments
- Intensive Care Units (ICU) & Emergency & Trauma Care
- Endoscopy Units & Cath Labs
- Radiology & Imaging Support
- Central Sterile Services Department (CSSD)
- Day Care Surgery Units
- Pain Management Services
- Organ Transplant Units
- Medical Universities and Teaching Institutions
- Research Organizations
- Hospital Administration & Quality Management

3. EMERGING NON-CLINICAL CAREER OPTIONS

- Medical Coding
- Clinical Documentation
- Healthcare Administration
- Health Insurance & Claims Management
- Medical Device & Product Specialist
- Clinical Application Specialist
- Medical Simulation & Training
- Clinical Research Coordinator
- Healthcare Quality & Accreditation

4. REQUIREMENTS FOR OVERSEAS EMPLOYMENT

Students should prepare for:

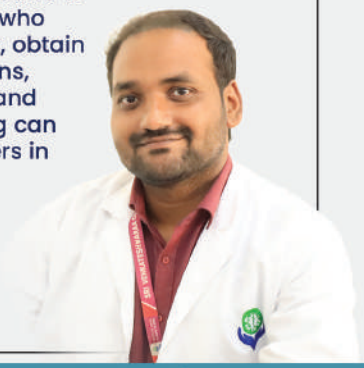
- Recognized academic qualifications
- Clinical internship and work experience
- Country-specific professional licensing examinations
- International certifications (BLS, ACLS and specialty certifications, where applicable)
- Credential verification
- English language proficiency (IELTS/OET, where required)
- Professional resume (CV) preparation
- LinkedIn profile development
- Interview preparation
- Visa and immigration procedures

5. CAREER DEVELOPMENT TIPS

To build a successful international career:

- Continuously upgrade clinical knowledge and technical skills.
- Pursue higher education and specialized certifications.
- Develop effective communication and interpersonal skills.
- Maintain professional ethics and patient safety standards.
- Build a strong professional network.
- Stay updated with international healthcare protocols and technologies.
- Participate in workshops, conferences, and continuing professional development (CPD) programmes.

The global healthcare industry offers excellent career opportunities for Operation Theatre & Anaesthesia Technologists. Students who develop strong clinical competencies, obtain internationally recognized certifications, enhance their communication skills, and remain committed to lifelong learning can build successful and rewarding careers in healthcare institutions worldwide. Professional excellence, adaptability, ethical practice, and dedication to quality patient care are the keys to becoming a globally competent healthcare professional.



The World is Waiting for Skilled Professionals Like You.

Dream Beyond Borders. Achieve Beyond Limits.

Mr. Sathishkumar
ASSOCIATE PROFESSOR
DEPT.OF OTAT
SVCAHS

SV-RACE 2K26
INTERNATIONAL CONFERENCE

The Department of Operation Theatre & Anaesthesia Technology, Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), Ariyur, Puducherry, successfully organized SV-RACE International Conference 2K26 on 30th June 2026 in celebration of National Anaesthesia and Operation Theatre Technologist Day. The conference, themed "Enhancing Clinical Excellence through Innovations and Advances in Anaesthesia and Operation Theatre Practice," witnessed enthusiastic participation from academicians, clinicians, healthcare professionals, technicians, researchers, and students from various institutions.

The conference commenced with a traditional Invocation, followed by the Ceremonial Lighting of the Kuthuvilakku, symbolizing the pursuit of knowledge and excellence in healthcare. The dignitaries formally inaugurated the conference in the presence of faculty members, invited guests, and delegates. The conference was inaugurated by Mrs. T. N. Nirmhalaa Natarajan, NCAHP Professional Council Member, New Delhi, who delivered the inaugural address emphasizing the pivotal role of Operation Theatre and Anaesthesia Technologists in ensuring patient safety and quality healthcare.







The scientific sessions were delivered by distinguished resource persons including Dr. Reesha Joshi (Military Medical City Hospital, Qatar), Mr. Mahesh Kumar M (CEO & Founder, Carefolio Global, Qatar), Dr. Arish B. T (Pondicherry Institute of Medical Sciences, Puducherry), Dr. Ettiyan Shanmugavalli and Mr. Mithum Kumar (Aarupadai Veedu Medical College & Hospital, Puducherry), Dr. Sumithra Govind (Madras Medical Mission, Chennai), and Dr. Dhinesh Kumar C (Shri Sathya Sai Medical College & Research Institute, Chennai). Their expert lectures on patient safety, emergency management, difficult airway management, ECG rhythm recognition, massive blood loss management, and global career opportunities provided valuable insights to the participants.

The conference concluded with a Valedictory Ceremony, during which winners of the scientific competitions were honoured with awards and certificates. The event was a grand success, reinforcing the institution's commitment to academic excellence, research, innovation, and professional development in Operation Theatre and Anaesthesia Technology.













SVGI SPOTLIGHT























AGON 2K26





UNDERSTANDING MRI

SAFE, PAINLESS, AND RADIATION-FREE



Magnetic Resonance Imaging (MRI) has become one of the most valuable diagnostic tools in modern medicine, offering highly detailed images of the body's internal structures without exposing patients to ionizing radiation. Unlike X-rays and Computed Tomography (CT) scans, MRI uses a powerful magnetic field and radio waves to create detailed images of organs, muscles, joints, blood vessels, and the brain. This makes it a preferred imaging technique for diagnosing a wide range of medical conditions while ensuring patient safety.

One of the greatest advantages of MRI is that it is completely non-invasive and painless. During the scan, patients simply lie on a motorized table that moves into the MRI scanner. Although the machine produces loud tapping or knocking sounds during image acquisition, patients are provided with ear protection and are closely monitored throughout the procedure. Most MRI examinations take between 20 and 60 minutes, depending on the body part being examined.



> *"MRI combines safety, precision, and innovation—helping doctors see more while keeping patients safe."*



MRI plays a crucial role in diagnosing neurological disorders, spinal injuries, sports-related injuries, tumors, infections, and diseases affecting the heart, liver, kidneys, and other organs. Its exceptional soft tissue contrast allows healthcare professionals to detect abnormalities that may not be visible using other imaging methods. Advanced MRI techniques also enable doctors to assess blood flow, brain activity, and organ function without the need for surgery.

Safety is an important aspect of every MRI examination. Because MRI uses a powerful magnetic field, patients must inform the healthcare team about any implanted medical devices, metal fragments, pacemakers, or previous surgeries. Removing metallic objects such as watches, jewelry, keys, and mobile phones before entering the MRI suite is essential to ensure safety. Many people mistakenly believe that MRI exposes them to harmful radiation. In reality, MRI uses no ionizing radiation, making it one of the safest imaging modalities available. This is particularly beneficial for children, young adults, and patients who require repeated imaging over time.

Modern MRI technology continues to evolve, offering faster scan times, clearer images, and improved patient comfort. Combined with skilled radiologists and technologists, MRI supports early diagnosis, accurate treatment planning, and better patient outcomes.

As medical imaging advances, understanding the safety and benefits of MRI helps reduce fear and encourages timely healthcare decisions. Being informed empowers patients to approach MRI examinations with confidence, knowing they are receiving one of the safest and most effective diagnostic investigations available today.

N.Gukanraj
ASSISTANT PROFESSOR
DEPARTMENT OF MEDICAL RADIOLOGY AND IMAGING TECHNOLGY
SVCAHS



STUDENTS ART



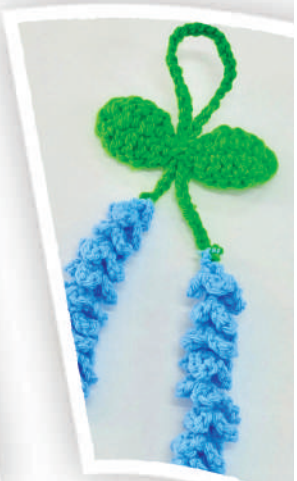
PRADEEPA JOTHIKUMAR
DEPT.OF OPTOMETRY
2024 - 2028 BATCH



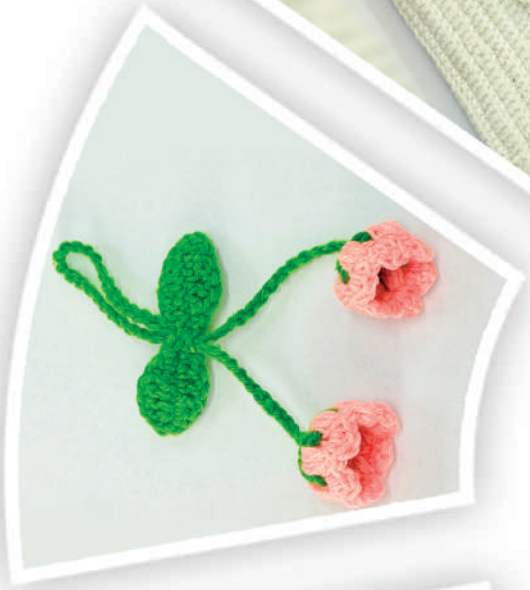








CRAFT





M. NITHYASRI
DEPT.OF OPTOMETRY
2025 - 2029 BATCH



UNNAT BHARAT ABHIYAN

UBA Inauguration & Training Programme

Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS), Ariyur, Puducherry, successfully inaugurated the Unnat Bharat Abhiyan (UBA) programme on 06 June 2026 at the Multipurpose Hall. The programme aimed to strengthen community engagement by promoting rural development, health awareness, skill development, and sustainable living practices.

The inaugural session began with a traditional lamp-lighting ceremony and was graced by Dr. Ramesh, Head, Department of Biochemistry, JIPMER, Puducherry, as the Chief Guest. Mr. D. Sathishkumar, UBA Coordinator, introduced the objectives and planned activities of the UBA initiative. Prof. Dr. C. Ananda Vayaravel, Dean, emphasized the importance of community service and social responsibility among healthcare professionals, while Prof. Dr. Bharadhalakshmi, Head, Department of Community Medicine, highlighted the role of community outreach in improving rural health and well-being.

The programme featured expert sessions by Mrs. Anuradha Arulraj, Ms. E. Rukmani, and Mrs. Jayanthi, who conducted interactive sessions on self-employment, handicrafts, yoga, and wellness. Participants also gained practical insights into first aid, traditional agriculture, healthy living, and community-based skill development.

The programme concluded with a vote of thanks, reaffirming the institution's commitment to







UNNAT BHARAT ABHIYAN

EDUCATION TO EMPOWERMENT

As part of the Unnat Bharat Abhiyan (UBA) initiative, Sri Venkateshwaraa College of Allied & Healthcare Sciences (SVCAHS) organized a community outreach programme titled "From Education to Empowerment" at Ariyur Village, Puducherry, on 21 June 2026.

The programme was conducted with the objective of promoting education, health awareness, and community empowerment among the rural population. Faculty members, students, and village residents actively participated in the event, making it a meaningful platform for knowledge sharing and social engagement.

A series of awareness sessions were organized focusing on the importance of education, personal hygiene, preventive healthcare, nutrition, environmental sustainability, and healthy lifestyle practices. Interactive activities and educational demonstrations encouraged community participation and inspired villagers to adopt healthier habits while recognizing the value of education in improving their quality of life.

The event was successfully coordinated under the guidance of Mr. Sathishkumar, UBA Officer, whose dedicated efforts ensured the effective planning and execution of the programme. His leadership, along with the enthusiastic participation of faculty members and students, played a significant role in the success of the outreach activity.

The "From Education to Empowerment" programme reflects the vision of Unnat Bharat Abhiyan in fostering sustainable rural development through education, healthcare, and active community engagement. Such initiatives continue to strengthen the social responsibility of SVCAHS while empowering rural communities to build a healthier, informed, and self-reliant future.









CLINICAL OUTCOMES OF SAME - DAY DISCHARGE FOLLOWING ELECTIVE PERCUTANEOUS CORONARY INTERVENTION



INTRODUCTION

Percutaneous Coronary Intervention (PCI) has become one of the most widely performed procedures for the treatment of coronary artery disease. Traditionally, patients undergoing elective PCI were kept under overnight observation to monitor for post-procedural complications. However, recent advancements in interventional cardiology, including improved stent technology, safer procedural techniques, and the increasing use of trans-radial access, have made Same-Day Discharge (SDD) a feasible and safe option for selected patients.

BENEFITS OF SAME-DAY DISCHARGE

Same-day discharge offers numerous advantages for both patients and healthcare systems. Patients benefit from increased comfort, reduced psychological stress, and an earlier return to their normal daily activities. Additionally, shorter hospital stays reduce healthcare costs, minimize the risk of hospital-acquired infections, and improve the utilization of hospital resources and bed availability.

SAFETY AND CLINICAL OUTCOMES

Several clinical studies have demonstrated that carefully selected patients undergoing uncomplicated elective PCI can be safely discharged on the same day without an increased risk of adverse events. The majority of patients experience no significant complications following the procedure. Minor complications such as access-site bleeding, hematoma formation, or transient chest discomfort may occur in a small percentage of cases, while major adverse cardiac events and readmissions remain uncommon. Proper patient selection, comprehensive discharge counseling, and structured follow-up are essential to ensure successful outcomes.



FUTURE PERSPECTIVES-As healthcare systems increasingly focus on cost-effective and patient-centered care, same-day discharge following elective PCI is gaining widespread acceptance. With standardized protocols and careful patient monitoring, this strategy has the potential to become a routine practice in modern interventional cardiology.

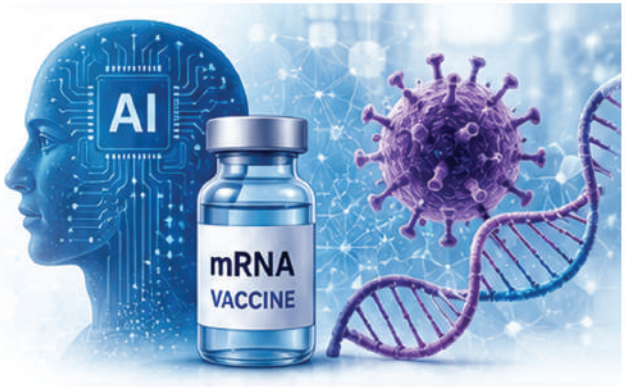
CONCLUSION

-Same-day discharge following elective PCI is a safe, effective, and economical approach in appropriately selected patients. The low incidence of complications and high levels of patient satisfaction support its growing adoption in contemporary cardiac practice, ultimately enhancing the quality and efficiency of cardiovascular care.



Mr. SIVA
ASSISTANT PROFESSOR,
DEPARTMENT OF CATH LAB TECHNOLOGY
(SVCAHS)

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN mRNA VACCINE DEVELOPMENT



INTRODUCTION

Messenger RNA (mRNA) vaccines have revolutionized modern medicine by demonstrating unprecedented speed and effectiveness in combating infectious diseases. Their remarkable success during the COVID-19 pandemic highlighted the potential of mRNA technology to rapidly respond to emerging health threats. Today, Artificial Intelligence (AI) and Machine Learning (ML) are playing a transformative role in advancing mRNA vaccine development by accelerating vaccine design, improving accuracy, and reducing the time required for research and clinical development. By analyzing vast biological datasets and predicting molecular interactions, AI enables scientists to develop safer, more effective vaccines with greater precision than traditional methods.

ROLE OF AI AND MACHINE LEARNING IN MRNA VACCINE DEVELOPMENT

AI and ML contribute to every stage of mRNA vaccine development. They help identify suitable pathogen targets by analyzing viral genomes and detecting conserved antigenic regions capable of eliciting strong immune responses. Machine learning algorithms optimize mRNA sequence design, predict RNA stability, improve protein expression, and enhance vaccine efficacy. AI also assists researchers in selecting appropriate lipid nanoparticles (LNPs) for efficient mRNA delivery while minimizing adverse effects.

APPLICATIONS IN MODERN VACCINE RESEARCH

AI-powered platforms accelerate vaccine discovery by rapidly screening thousands of antigen candidates and predicting their immunogenicity. Deep learning models simulate antigen-antibody interactions, reducing the need for extensive laboratory experiments. AI also improves clinical trial planning by identifying ideal participant groups, predicting vaccine responses, and monitoring safety profiles in real time. Furthermore, machine learning supports continuous surveillance of viral mutations, enabling rapid updates of mRNA vaccines against newly emerging variants.

ADVANTAGES

The integration of AI and ML into mRNA vaccine development offers several significant benefits:

- Accelerates vaccine discovery and development.
- Improves antigen selection and vaccine design accuracy.
- Predicts immune responses and vaccine effectiveness.
- Optimizes mRNA sequence stability and protein translation.
- Reduces research costs and experimental failures.
- Enhances safety assessment through predictive toxicity models.
- Enables rapid adaptation to emerging infectious diseases and viral variants.

MACHINE LEARNING ALGORITHMS USED

Several AI and ML techniques are widely used in mRNA vaccine research:

- Artificial Neural Networks (ANN): Predict antigen immunogenicity and vaccine performance.
- Deep Learning Models: Analyze viral genomes and protein structures for vaccine target identification.
- Random Forest: Predicts vaccine efficacy and potential adverse reactions.
- Support Vector Machine (SVM): Classifies immunogenic peptide candidates for vaccine design.
- Natural Language Processing (NLP): Extracts scientific knowledge from biomedical literature and clinical databases.
- Reinforcement Learning: Optimizes mRNA sequence design and lipid nanoparticle formulations.
- Generative AI Models: Design novel mRNA sequences with enhanced stability and therapeutic potential.

CONCLUSION

Artificial Intelligence and Machine Learning are reshaping the future of mRNA vaccine development by making vaccine research faster, more accurate, and highly efficient. These intelligent technologies support scientists in designing optimized mRNA vaccines, predicting immune responses, monitoring viral evolution, and accelerating clinical development. As AI continues to evolve alongside biotechnology, it promises to revolutionize vaccine innovation, improve global pandemic preparedness, and pave the way for personalized vaccines targeting infectious diseases, cancer, and rare genetic disorders. The collaboration between biomedical researchers, data scientists, and healthcare professionals will be instrumental in delivering the next generation of intelligent, safe, and effective vaccines for a healthier world.



Mr. MOHAMED AMEEN S
LECTURER – DEPARTMENT OF COMPUTER SCIENCE (SVCAHS)



FACULTY

THE AGE OF AI?

SVCAHS FACULTY ON THE AI REVOLUTION

Artificial Intelligence (AI) is redefining the future by transforming the way we live, learn, and deliver healthcare. From intelligent diagnostics and medical imaging to precision medicine and clinical decision support, AI is enhancing accuracy, efficiency, and patient care across every healthcare discipline.

As technology advances, the true strength of AI lies in empowering—not replacing—healthcare professionals. By combining innovation with human expertise, ethics, and compassion, AI is creating smarter, safer, and more personalized healthcare solutions.

This special feature explores how Artificial Intelligence is shaping the future of Allied Health Sciences and inspiring the next generation of healthcare professionals.



Will AI Redefine the Future of Allied Health Sciences?

ANANDA VAYARAVEL

Artificial Intelligence (AI) is transforming Allied Health Sciences by enhancing the way healthcare professionals diagnose, treat, monitor, and manage patients. From intelligent laboratory diagnostics and AI-assisted medical imaging to smart operation theatres, tele-optometry, emergency care, and cardiac interventions, AI is improving accuracy, efficiency, and clinical decision-making across every allied health discipline.Beyond patient care, AI is revolutionizing education and research through virtual simulations, data analytics, and evidence-based learning, enabling students and professionals to develop advanced clinical competencies. While AI offers remarkable opportunities, it also emphasizes the importance of ethical practice, patient privacy, and responsible use of technology.The future of Allied Health Sciences lies not in replacing healthcare professionals, but in empowering them with intelligent tools that enhance patient care. By combining clinical expertise with digital innovation, today's students will become tomorrow's globally competent healthcare professionals.

"The future of Allied Health Sciences will be driven by the perfect partnership between human intelligence and artificial intelligence."

Can Artificial Intelligence Help Prevent Blindness?



ANBUOLI

Blindness caused by conditions such as diabetic retinopathy, glaucoma, and age-related macular degeneration can often be prevented through early detection and timely treatment. Artificial Intelligence (AI) is transforming eye care by analyzing retinal images and Optical Coherence Tomography (OCT) scans with remarkable speed and accuracy, enabling eye diseases to be identified even before noticeable symptoms appear.AI-powered screening systems are now being used worldwide to detect diabetic eye disease, glaucoma, cataracts, and retinal disorders, supporting optometrists and ophthalmologists in making faster, more accurate clinical decisions. Combined with tele-optometry, AI also extends quality eye care to rural and underserved communities, where access to eye specialists is limited. These technologies enable earlier referrals, reduce vision loss, and improve patient outcomes.While AI cannot replace the expertise and compassionate care of eye care professionals, it serves as a powerful clinical partner by enhancing diagnostic precision and expanding access to preventive eye care.

"The future of vision care lies in seeing diseases before they steal sight—where Artificial Intelligence empowers eye care professionals to protect the gift of vision."



Can AI Make Life-Saving Decisions in Seconds?

THOTTADHARANI

In emergency medicine, every second is critical. Artificial Intelligence (AI) is transforming emergency and trauma care by rapidly analyzing vital signs, medical history, laboratory findings, and medical images to support faster clinical decisions. AI-powered triage systems help identify critically ill patients, detect life-threatening conditions such as stroke, sepsis, cardiac emergencies, and major trauma, and prioritize treatment when time matters most. Smart ambulances further enhance emergency response by transmitting real-time patient data to hospitals, enabling medical teams to prepare before the patient arrives.These innovations are already improving emergency care worldwide. AI-powered stroke platforms such as Viz.ai are used in over 1,700 hospitals to detect suspected strokes within minutes and immediately alert specialists. In India, Apollo Hospitals has integrated AI into stroke management to accelerate diagnosis and treatment, while Sheba Medical Center in Israel uses AI-assisted emergency triage to streamline patient assessment and clinical workflows. AI-based early warning systems are also helping hospitals identify sepsis hours earlier, improving survival through timely intervention. While AI cannot replace the expertise, judgment, and compassion of emergency care professionals, it serves as a powerful clinical partner—enabling faster decisions, improving patient safety, and helping save lives when every second counts.

"In emergency care, AI doesn't replace human expertise—it helps healthcare professionals act faster when every second matters."

Will AI Become Every Radiographer's Smartest Assistant?



GUKANRAJ

Artificial Intelligence (AI) is transforming medical imaging by enhancing the accuracy, efficiency, and quality of diagnostic services. Rather than replacing radiographers, AI acts as a smart clinical assistant, supporting image acquisition, optimizing imaging parameters, and evaluating image quality in real time. It also helps identify potential abnormalities, prioritize urgent cases, and reduce repeat examinations, minimizing unnecessary radiation exposure.While AI improves workflow and diagnostic precision, it cannot replace the clinical expertise, critical thinking, communication, and compassionate care provided by radiographers. Human judgment remains essential for ensuring patient safety and delivering personalized healthcare.As medical imaging continues to evolve, radiographers who embrace AI and strengthen their digital competencies will be better prepared for the future. The true strength of modern radiography lies in the collaboration between human expertise and intelligent technology, creating a smarter, safer, and more patient-centered imaging environment.

"The future of radiography is not AI replacing radiographers—it is AI empowering radiographers."

THE CIRCLE OF CARE

Excellence is a journey we take together



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