Vol 1/Issue 1/Sept'2025

NDD INSIGHTS



Dr. N.D.Desai Faculty of Medical Science and Research

Dharmsinh Desai University

Aim and Scope

The primary objective of the newsletter is to document, disseminate, and commemorate the academic, clinical, and co-curricular achievements of the institution. It functions as an official chronicle of institutional progress, designed to foster transparent communication, promote academic engagement, and strengthen organizational identity among students, faculty, administrative leadership, and external stakeholders. Furthermore, it incorporates student-led cultural and athletic initiatives, administrative milestones, and mentorship achievements—ensuring a balanced, representative record of academic rigor, institutional governance, and holistic

Editorial Board

A biannual publication highlighting institutional events, faculty milestones, and student breakthroughs.

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Message from Vice Chancellor



It gives me great pride to address you through this first edition of Dr. N. D. Desai Faculty of Medical Science and Research newsletter. Each accomplishment highlighted here reflects the collective dedication, innovation, and resilience of our academic community.

From groundbreaking research and outstanding faculty achievements to the vibrant student-led initiatives, our university continues to uphold its legacy of excellence and forward-thinking education. As we navigate an ever-evolving world, I urge all members of our university to remain curious, embrace new challenges, and pursue knowledge with passion and integrity. Together, we can create an environment where ideas flourish, collaborations thrive, and learning transcends boundaries. Il congratulate the editorial team for curating this insightful edition and extend my heartfelt appreciation to our students, faculty, and staff for their unwavering commitment to our shared vision. Let us continue to build a future that reflects the true spirit of scholarship and service.

-**Dr. H.M. Desai**

Message from Dean



It gives me immense pleasure to connect with you through this edition of our newsletter. Each page reflects the dedication, creativity, and achievements of our vibrant academic community.

Over the past months, we have witnessed remarkable initiatives—be it in academics, research, cultural activities, or community outreach—that embody the spirit of excellence we strive for. As we continue our journey of growth, I encourage every member of our college to embrace curiosity, uphold our values, and work collaboratively toward building an environment where learning knows no boundaries. Your enthusiasm and commitment remain the driving force behind our progress. Let us carry this momentum forward and set even higher benchmarks for the future. I congratulate all contributors to this newsletter and extend my best wishes to our students and faculty for their upcoming endeavors.

-**Dr. Arun Vyas**

EVENTS

Ganpati Utsav:
Blending Knowledge with Tradition





The sacred festival of Ganesh Chaturthi was celebrated with immense devotion, profound joy, and palpable cultural fervor , successfully uniting the entire campus community in a spirit of shared festivity organized by the **Internship Batch of 14 members from Batch 2020**. The elaborate celebrations spanned nine auspicious days, during which students, faculty members, and staff actively engaged in a series of spiritual and vibrant cultural events, making it a memorable period. Festivities commenced with the solemn Pran Pratishtha of the idol, marking the installation of the beautifully adorned Lord Ganesha amidst resonant Vedic chants and traditional prayers. Each day featured the soulful performance of the Aarti, where the rhythmic, energetic beats of the dhol, the sweet fragrance of incense, and the heartfelt, collective chants of “Ganpati Bappa Morya” filled the atmosphere with divine, positive energy. The grand finale was the Ganpati Visarjan procession, which transformed the campus into a vibrant spectacle of music, exuberant dance, and sincere devotion as the community bid a joyous yet emotional farewell, hoping for a return next year with renewed blessings. This year's celebration effectively showcased India's rich cultural traditions, strengthened bonds, and left behind a deep sense of spiritual fulfillment for everyone involved.

Emblaze 3.0: A Week of Cultural and Sporting Brilliance

The week-long annual festival, Emblaze 3.0, was heralded as a phenomenal success, a vibrant testament to the combined organizational synergy of the **Batch of 2021** and the meticulous coordination of **Dr. Chintan Upadhyay.** Going far beyond a mere recreational event, Emblaze 3.0 served as a crucial platform for holistic development, fostering learning, deepening bonds, and forging lasting memories that collectively inspire a culture of excellence. The powerful interaction between students and faculty successfully lit the "flame of growth and togetherness," making this year's celebration a high watermark for the institute. Following an energizing formal inauguration, the festival's dynamic spirit manifested across an exhaustive array of events: participants showcased deep creative talents in the cultural arena with competitive displays of painting, intellectual debates, strategic quizzes, intricate rangoli, and a glamorous ramp walk, while the athletic fields hosted fierce but friendly competition. The competitive spirit soared through diverse sporting contests, from the focus required for indoor games like chess and carrom to the raw energy unleashed in outdoor team matches of cricket, football, kho-kho, tug-of-war, and kabaddi. The campus buzzed with an infectious synergy, trading the quiet focus of classrooms for the roar of spirited camaraderie. Every competition, whether intellectual or athletic, was conducted with a high degree of fair play, underscoring the values of mutual respect. This vibrant environment gave every attendee a chance to step outside their routine, discover hidden talents, and lead a team. The festival successfully reinforced the institutional commitment to nurturing well-rounded individuals. The entire exhilarating week culminated in a crescendo of excitement with an electrifying DJ Night and the spectacular **"Ignite"** finale, leaving indelible memories and significantly strengthening the community bond between all members of the institute.

Emblaze 3.0: Glimpses

























Multi-Speciality Health Camp (January–August 2025)





















Between January and August 2025, the Dr. N. D. Desai Faculty of Medical Science and Research & Hospital, Dharmsinh Desai University, successfully organized a 35 multi-speciality health camps, coordinated by the **Department of Community Medicine**. Specialist teams from **General Medicine, General Surgery, Obstetrics & Gynecology, Pediatrics, Ophthalmology, ENT, Psychiatry, Dental Care, Orthopedics,** and **Dermatology** provided diagnostic and curative services.

3,247 individuals benefited from accurate diagnoses, treatment and essential medications. By eliminating financial constraints and extending specialist care directly to the community, these camps significantly improved access to healthcare while promoting comprehensive healthcare services to the underserved regions.



DDU Women's Cell: Comprehensive Awareness Campaigns

















The Dr.NDDFMSR unit of the Dharmsinh Desai University (DDU) Women's Cell organized several impactful awareness programs in Nadiad, coordinated by **Dr. Komal Thekdi, Dr. Sneha Babariya, Dr. Binita Purohit**, and **Dr. Hemavati Raoulji**. The initiatives included a geriatric awareness program at Jay Manav Seva Pariwar trust and Dikra nu ghar, focusing on balanced nutrition, light exercises, and recreational activities for the elderly.

For younger population, an interactive substance abuse program was led by Associate Professor of Psychiatry **Dr. Kinjal Vasava** at Prathmik Kanya Kumar Shala, Narsanda, to educate students on risks and resisting peer pressure.

The Women Cell also held two events at local schools including a Cervical Awareness Programme for 55 teachers and students at Bharatiya Vidya Bhavan High School and a menstrual hygiene awareness program for 70 girl students at Shri Santram Municipal High School on International Women's Day.

An organ donation awareness program was held at Methodist Nursing College, Mission Road, to educate nursing students on the donation procedure and how it improves recipients' quality of life.

OBGY in Focus: Bridging Surgical Innovation and Community Wellness

The Department of OBGY, in collaboration with other surgical branches, held an interactive session on April 15, 2025, focusing on the safe and effective use of surgical energy sources, with a live demonstration for residents and faculty led by **Dr. Chintan Upadhyay** and **Dr. Priyanka Purohit**. The department also partnered with Bayer Pharma to organize a Mirena workshop, where 45 participants, including faculty, residents, and interns, received hands-on training on the hormonal intrauterine device. In addition, the department, along with Mission Brain India West Zone, conducted an HPV vaccination drive at Dr.NDDFMSR, providing Guardasil and Ceravac vaccines to 91 recipients to protect against various malignancies and genital warts. Lastly, in partnership with FOGSI Nadiad, the department hosted a live operative workshop led by **Dr. Mahesh Gupta** for high-risk ANC patients, which focused on "Uterus conserving techniques and stepwise uterine devascularisation" for cases of placenta accreta.







Promoting Mental Health and Awareness: A Report on Recent Events by Department of Psychiatry



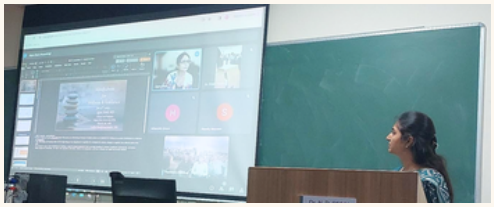












The Department of Psychiatry at Dr.NDDFMSR held multiple events, including a suicide awareness program for 265 students, led by Assistant Professor **Dr. Aayushi Patel**. The "Undergraduate Psychiatry Quiz 2024" featured 10 teams, with the winners progressing to a zonal round. The quiz masters were **Dr. Hemang Shah, Dr. Kinjal Vasava, Dr. Aayushi Patel, Dr. Bhumika Patel,** and **Dr. Dhruv Pathak**. The department also observed World No Tobacco Day with various activities. Additionally, a guest lecture on "Mindfulness for Wellness and Resilience" was organized for around 450 participants at Dharmsinh Desai University. The guest speaker was **Dr. Jigna Shah**, a Clinical Assistant Professor at Wayne State University School of Medicine, and the master of ceremonies was **Dr. Aayushi Shah. Professor Dr. Hemang Shah** delivered another guest lecture on "Healthy Parenting" to 35 parents in Gandhinagar. A session on women's psychological wellbeing was also conducted by resident **Dr. Neha Patani** for patients and relatives in the Psychiatry ward, in collaboration with Sunpharma.

Respiratory Medicine Workshop on NTEP and Drug-Resistant Tuberculosis

The Department of Respiratory Medicine at Dr.NDDFMSR, in collaboration with the District TB Society, Kheda, organized a workshop for postgraduate students on March 20, 2025. The workshop, titled "Recent Update on TB Under NTEP for PG Students," featured two informative sessions at the Medical College. The first session was led by **Dr. Dinesh Barot**, DTO, Kheda, who provided an overview and updates on the National Tuberculosis Elimination Programme (NTEP). Subsequently, **Dr. Yagnang Vyas**, Associate Professor in the Department of Respiratory Medicine, conducted the second session, which focused on drug-resistant tuberculosis.





Events and Awareness Initiatives by Orthopaedic Department

The Department of Orthopaedic at Dr.NDDFMSR, organized by **Dr. Rajiv Daveshwar**, was actively involved in awareness and educational initiatives, organizing multiple events for students and the public. These included a poster presentation on June 3rd for World CTEV Day and another for Ilizarov Day, both featuring 150 final-year MBBS students and judged by department heads. Additionally, the department hosted a free bone marrow density testing camp, which included a lively cultural program to promote bone health awareness. The cultural event showcased educational skits on osteopenia and osteoporosis, accompanied by music, dance, and poetry centered on wellness and preventive health.

Physiology Department's Holistic Health Initiatives for Medical Students and Faculty

Dr. Tejas Prajapati organized a guest lecture by **Dr. Brijesh Patel** for first-year medical students, who were briefed on the functional anatomy of the kidney, urolithiasis, and treatment approaches from a nephron surgeon's perspective.

Dr. Ravi Thaker, Dr Jay Patwa along with all the staff of Physiology Department coordinated a 90-minute yoga session for first-year MBBS students and all institute faculty. This session was organized by the Department of Physiology in collaboration with the Indian Naturopathy and Yoga Graduate Medical Association and was handled by trained yoga experts, who taught students the true techniques of Yoga.







Breast Cancer Awareness Walk Organized by NSS and Ashirvad Foundation

A breast cancer awareness walk, titled "WALK FOR HER," was successfully organized in the university campus by the NSS team in partnership with the Ashirvad Foundation. Under the coordination of **Dr. Chintan Upadhyay,** the event featured a unique initiative whereby the Ashirvad Foundation committed to providing one free breast cancer check-up to a woman in need for every 5,000 steps completed by participants. This community-focused effort effectively combined a health and wellness activity with a tangible social impact, thereby advancing public health awareness and providing direct support for women's health.

Equal Opportunity Cell Initiative: Counseling for Psychological Well-being

The Equal Opportunity Cell of DDU, coordinated by **Dr. Sapana Shah**, organized a counseling event aimed at promoting the psychological well-being of medical and dental students. During the event, **Mr. Sanjay Parmar** from the Department of Psychiatry delivered a lecture to 90 student participants. He addressed the various stress problems commonly faced by medical students, providing guidance on effective management techniques and emphasizing the importance of seeking proper treatment for such conditions.

Quiz, Creativity, and Compassion: Pathology Department's Giving Event

Dr. Kirti Vyas and **Dr. Nilam Patel** from the Department of Pathology at DR. NDDFMSR organized an event where 43 participants donated blood, and blood grouping was performed for 27 volunteers. The event also included creative activities, with 42 participants making rangoli and 27 creating posters. More than 10 individuals attended a fun quiz, and a pledge for blood donation was taken by over 100 students. Certificates were awarded to all donors and participants.

Department of Community Medicine: Research Synopsis Workshop

The Department of Community Medicine conducted a workshop on synopsis writing, attended by 56 residents, with the objective of enhancing their skills in preparing effective research synopsis. Organized by **Dr. Divyang Patel**, the workshop featured lectures delivered by a team of experts including **Dr. Divyang Patel, Dr. Komal Thekdi, Dr. Vaneel, Dr. Darshana, Dr. Jay Patva, Dr. Sohil Mansuri, Dr. Maitri Nagar,** and **Dr. Rahul Damor**.

Microbiology and HICC Conduct Infection Prevention Initiatives

The hospital's Microbiology and Hospital Infection Control Committee (HICC) conducted two major initiatives to boost infection control and prevention practices. Led by **Dr. Jigar Gusani, Dr. Purvi,** and Infection Control Nurse **Madhu Solanki**, the first event involved a training for 55 resident doctors, with pre- and post-tests via Google Quiz forms demonstrating significant improvements in their knowledge. Following this, on May 5, 2025, an awareness program on hand hygiene was organized in high-traffic areas such as the OPD registration area, Gynecology OPD, NICU waiting area, and near the blood collection lab. Attended by around 100 people, including doctors, nursing staff, students, and patients' relatives, the event featured an informational talk by Madhu Solanki and a street play by nursing students from Charusat University.







Fetal Medicine CME by Radiology and OBGY

The Radiology and Obstetrics - Gynaecology departments, led by **Dr. Nila Gandhi** and **Dr. Chintan Upadhyay**, organized a Continuing Medical Education (CME) program. The event featured prominent speakers and experts in fetal medicine and was attended by 80 participants, including faculty, residents, and private practitioners.

General Medicine Department Launches TB Awareness Initiative

The department of General Medicine, led by **Dr. Hetal Pandya**, organized an awareness campaign at Dr.NDDFMSR focusing on the risks of Tuberculosis (TB) among People Living with HIV (PLHIV). The health education talk was delivered by Medical Superintendent **Dr. Pukur Thekdi, Dr. Hetal Pandya**, and **Dr. Tushar Shah**.



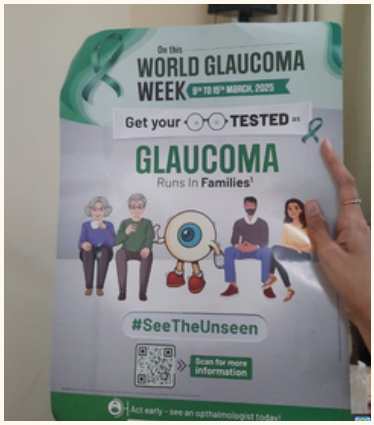




Faculty Conducts Glaucoma Awareness and Multi-Site Medical Camps

On January 13, 2025, a glaucoma awareness session was conducted as part of a medical camp in Mehmedabad. In collaboration with the Andh Jan Mandal, faculties from the institution also participated in two additional camps to further extend their community outreach. **Dr. Hardik Patel** attended the camp organized by the Jai Manav Seva Parivar Trust in Vallabhnagar, Nadiad, while **Dr. Lakshita Maherda** contributed to a camp held at the Shree Gayatri Chetna Kendra in Karamsad.





Anti-Ragging Week 2025: Awareness to Action

The institution successfully executed Anti-Ragging Week 2025, a five-day initiative with 389 participants combining formal awareness with creative student engagement. The week began with an Orientation Programme and an Anti-Ragging Pledge, followed by high-participation events like the National Contest 2025 and a social media-driven Selfie Corner. Competitions were held on Independence Day, reinforcing the message of student responsibility. The program concluded with a Valedictory Session and a renewed pledge, effectively raising awareness and solidifying the commitment to a safe and inclusive campus environment.





Exceptional Surgical Skill: 7 kg Abdominal Lump Successfully Excised

The **General Surgery Department** successfully resolved a significant diagnostic and surgical dilemma. A woman presented with a 10 kg weight gain and severe abdominal distension. A CT scan showed a massive lump, creating diagnostic uncertainty between an internal iliac artery tumor and an abdominal organ mass. Our surgeons successfully operated, excising a huge 7 kg lump. The complex procedure was completed without complications, showcasing the advanced surgical expertise of the General Surgery Department.



Surgical Excellence Triumphs Over Septic Shock



The dedication of our surgical team earned high praise from a family following a critical emergency. A 35-year-old woman arrived in Septic Shock and Multi-Organ Dysfunction Syndrome (MODS), having suffered severe injuries to vital abdominal organs during an unsafe abortion attempt.Doctors from the **Department of General Surgery** performed an immediate eight-hour surgery. After fourteen days of intensive care, the patient was successfully discharged with stable vitals.The grateful husband thanked Vice Chancellor Padmashri Dr. H. M. Desai, stating, "Your Surgeons' dedication, skill, and compassion gave us hope." This outcome highlights the exceptional, life-saving commitment of our medical staff.

General Surgery Achieves State-Acknowledged Surgical Feat

The Department of General Surgery performed a surgical marvel recently recognized by Doordarshan Girnar, surprising the state's medical community. The patient, a 56-year-old male, had a 3-foot-long, 4 kg nerve tumor previously deemed inoperable for 20 years due to the severe risk of paralysis or amputation (as the tumor involved major nerves and arteries). Our surgeons successfully excised the giant tumor by blending Neurosurgery and Vascular Surgery principles. The complex, high-stakes procedure was completed without any complications, highlighting the extraordinary skill within our General Surgery Department.



Anesthetic Expertise: Choosing and Delivering Spinal Anesthesia in High-Risk Obstetric Scoliosis

Department of Anesthesiology successfully provided spinal anesthesia for an emergency Cesarean section in a patient with a complex surgical history of scoliosis correction (T4-L1 rods). The decision favored spinal over general anesthesia to mitigate the high risks of aspiration and neonatal depression. Despite the difficult spinal anatomy, expert technique secured an adequate and uneventful block, ensuring a successful surgery and immediate neonatal cry.





Awake Fiberoptic Intubation for Head and Neck Cancer with Restricted Mouth Opening

Due to the limited mouth opening, an Awake Fiberoptic Intubation (AFOI) was successfully performed by **Department of Anesthesiology** to secure the airway safely. Anesthesia maintained stable hemodynamics throughout the prolonged (7-hour) and extensive surgery (Hemimandibulectomy + Neck Dissection + PMMC graft). Given the surgical magnitude, extensive airway manipulation, and risk of post-operative edema, the patient was placed on elective post-operative ventilation. This preventative measure allowed for subsequent uneventful extubation on the first post-operative day.





Recognizing Dedication: Head Nurses Bring Nurses Day to Life

On 12th May, Nurses Day, the celebration was brought to life through a series of focused and engaging activities orchestrated by the Head Nurses.the day was a meaningful tribute, blending professional recognition with collegial celebration to boost morale and highlight the critical role of nursing staff.







Faculty Section

Publications and Book Chapter indexed in Scopus and PubMed

Sr. No	Author Name	Department	Title
1	Dr. Tejas Prajapati	Physiology	Analysis of Physiology Theory Question Papers for Competency-Based Medical Education Implementation in Gujarat: A Pilot Study.
2	Dr. Divyang Patel	Community Medicine	Sample Size Estimation in Clinical Trials.
3	Dr. Ravi Thaker	Physiology	Exploring the Role of Circadian Rhythms in Sleep and Recovery: A Review Article.
4	Dr. Jigar Gusani	Microbiology	New Insights into the Pathophysiology of Type 2 Diabetes: A Review Article.
5	Dr. Supreet Prabhu	ENT	A retrospective analysis of 1019 cases of tuberculous cervical lymphadenitis in a rural setup in 20 years.
6	Dr. Yagnang Vyas	Pulmonary Medicine	Pleural Tuberculosis ISBN: 978-85014-259.
7	Dr. Shuchi Shah	Anaesthesiology	ISCCM Critical care update 2024, point of care testing in hematological emergencies.
8	Dr. Vishal shah	Surgery	In Vitro Analysis of Healing Properties of Platelet-Rich Fibrin (PRF) vs. Collagen Membranes in Guided Tissue Regeneration.
9	Dr. Maitri Nagar	Community Medicine	Recent research trends in mathematics vol 7, Sampling techniques in research.

10	Dr. Komal Thaker	Anaesthesiology	An overview on H5N1 virus: Recent outbreaks and challenges.
11	Dr. Nilam Patel	Pathology	Genomic Medicine: Applications in Disease Prevention and Treatment.
12	Dr. Yagnang Vyas	Pulmonary Medicine	Conservative management of spontaneous pneumothorax: A review of evidence and guidelines.
13	Dr. Jainish Modi	General Medicine	ARBS studies' effectiveness and safety in decreasing blood pressure with no significant changes in other clinical and biochemical parameters.
14	Dr. Nirav Patel	General Medicine	Matrix-Based Pharmacokinetic Modeling of Antiretroviral Drugs in HIV-Positive Pregnant Women Using Non-Invasive Sampling.
15	Dr. Kunjan Shah	General Medicine	Tuberculosis beyond the ordinary: a case series investigating pulmonary and extra-pulmonary presentations.
16	Dr. Sonik Shah	Anaesthesiology	Nano-Bioanalytical Methods for Point-of-Care Testing: Challenges and Future Directions in Clinical Diagnostics.
17	Dr. Urja Patel	Anaesthesiology	Economic Evaluation of Biosimilars in India: Cost-Effectiveness Analysis and Policy Implications.

Conferences, Symposia, Lectures and FDP

Sr. No	Faculty Name	Department	Title
1	Dr. Tithi Jain	Dermatology	Won the **3rd Prize** for her E-poster at the CDSI National Conference 2025 in Delhi (August1st–3rd).The award recognizes her research: "Revolutionizing Non-Healing Ulcer Treatment: Efficacy of Platelet Rich Fibrin Matrix with Reduced Blood Requirements and Expedited Centrifugation"
2	Dr. Janki Brahmbhatt	Ophthalmology	An e-poster titled "From Darkness to Light: A Typical Case of OSSN" was presented, detailing a medical case of Ocular Surface Squamous Neoplasia (OSSN) at 37th APACRS held in Gandhinagar from 21-23 August ,2025.
3	Dr.Binita J Purohit	Anatomy	Delivered an expert lecture on 24th July, 2025 about a journey through the heart : Anatomy and beyond at Charusat University.
4	Dr. Sneha Babariya	Pathology	Participated as delegate at national conference of department of pathology, BJMC – PATHCON BJ 2025.
5	Dr. Hemang Shah	Psychiatry	Participation as a delegate in the workshop on qualitative methods in mental health research organized by department of psychiatry, Pramukswami Medical College, Karamsad.
6	Dr. Hemang Shah	Psychiatry	Participated in Autism and inclusive education, a seminar for special educators held at Gujarat institute of mental health being a part of panel discussion: making classrooms autism friendly.
7	Dr. Hemang Shah	Psychiatry	Evaluated papers presented for BEST PAPER AWARD during 6th midterm conference of IPSGSB held at Gujarat Institute of Mental Health.

Sr. No	Faculty Name	Department	Title
8	Dr. Chintan Upadhyay	OBGY	Delivered and expert lecture on " Skilled Birth Attendant" at state level conference organized by Zydus hospital, Anand on 7th August,2025.
9	Dr. Priyanka Purohit	OBGY	Completed ISUOG basic training online program in Obstetrics and Gynaecology Ultrasound, in April,2025.
10	Dr. Shwetambari Patil	OBGY	Delivered an expert lecture on ' Menstrual Health for school Girls' at Podar International school, Nadiad.
11	Dr. Shwetambari Patil	OBGY	Panelist in Webinar held by AMOGS,Emergency obstetric committee on Doctor's Day, 1st July,2025.
12	Dr. Shwetambari Patil	OBGY	Participated in the Comprehensive Online Masterclass 1 & 2 on Total Laparoscopic Hysterectomy.
13	Dr. Shwetambari Patil	OBGY	Participated in the one day (Virtual) training program on Ethical Considerations and GCP in Research Involving Human Participants, jointly conducted by the CDRF and ICMR -NIE, Chennai on 27th March 2025.
14	Dr. Shwetambari Patil	OBGY	Participated in 'Gynaecological laparoscopy and Hysteroscopy Program' conducted on 19thJanuary,2025 at JPAC, MPUH, Nadiad,
15	Dr. Shwetambari Patil	OBGY	Completed online HPV vaccination training module in August,2025.



Students Achievements

Batch 2019 - NEET PG RESULTS



Keya Desai
AIR-1157



Reon Pandya
AIR-2403



Khushboo Deora
AIR-2570



Karnav Pandya
AIR-3642



Devansh Patel
AIR-7129



Isha Shah
AIR-8891



Ishan Trivedi
AIR-9094



Gautam Shah
AIR-12899



Heta Somaiya
AIR-13398



Kaumudi Shah
AIR-16352



Aditi Patel
AIR-16574



Brijal Bhuva
AIR-21486



Siddhi Rajput
AIR-24370



Parnil Khandar
AIR-29560



Maitrayee Khatri
AIR-33048



Kathan Patel
AIR-33850



Keyur Chokshi
AIR-35026



Monish Shah
AIR-49250

Your accomplishment reflects your dedication and perseverance. Your success serves as an inspiration to everyone and has established a standard of excellence! Congratulations to the NEET PG toppers on your remarkable performance.

NEET PG Toppers' Wisdom: Your Roadmap to Success

Consistency is the Key to achieving your best. Train hard but don’t forget to take mindful breaks. Focus more on concept building, read revision Notes and then to DVT or BTR and give a grand test (twice a month to once a week), review it . Prioritise self care and get enough sleep to maintain mental well being. your health should be of utmost priority. Believe in yourself, trust your abilities and you will definitely achieve success.

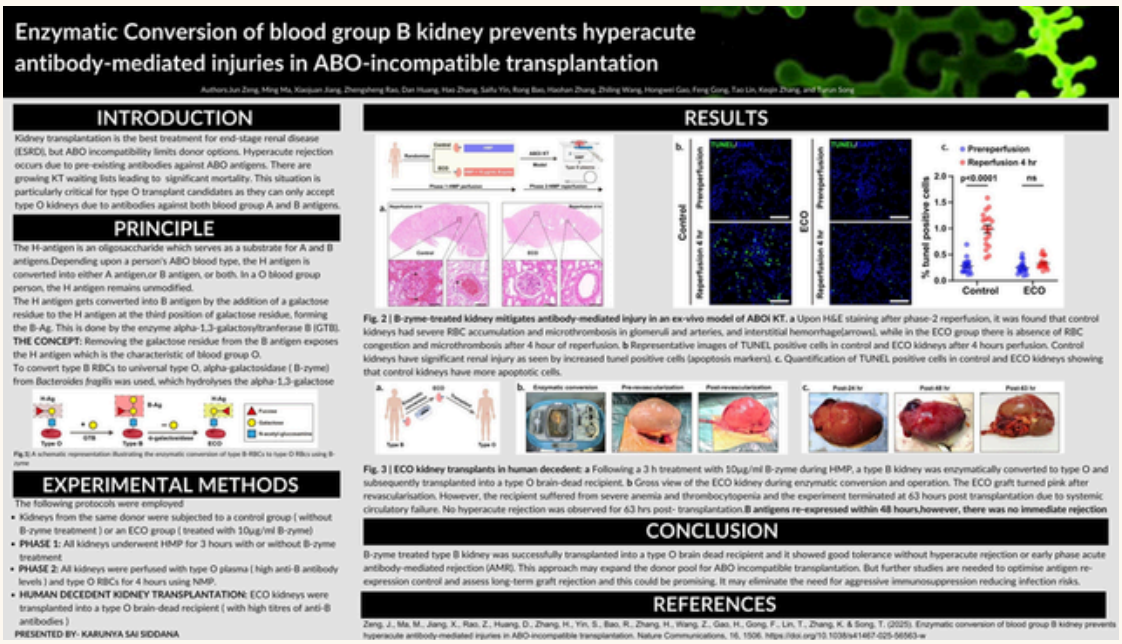
-Keya Desai
AIR-1157

Neet PG tests basic knowledge of all 19 subjects, so my takeaway from NEET is don’t chase rare things just focus on basic things that we encounter in our day to day clinics, try to be strong in it , prepare from concise source and revise it well, practice mcqs daily, give grand tests at 15-20 day intervals , practice MCQs and you are done.

- Reon Pandya
AIR-2403

Karunya Sai Siddana's Dual Win: ICMR Grant and 3rd Prize at NMO Conference

Karunya Sai Siddana from the 2023 batch of Dr. N. D. Desai Faculty of Medical Science and Research has been selected for the prestigious ICMR Short Term Studentship 2025 for her research proposal “Evaluating the Cardiometabolic Index as a Practical Marker for Insulin Resistance in Type 2 Diabetes Mellitus Patients,” under the guidance of Dr. Hetal Pandya, HOD of General Medicine. Her project aims to explore the cardiometabolic index as an easy and effective tool for early detection of insulin resistance to help prevent serious complications of diabetes. Additionally, Dr. N. D. Desai Medical College achieved a proud milestone by winning 3rd prize at a national level NMO conference held at RNT Medical College, Udaipur, where Karunya presented an award-winning e-poster on a novel method to convert type B blood-kidneys to type O for easier kidney transplantation.



Enzymatic Conversion of blood group B kidney prevents hyperacute antibody-mediated injuries in ABO-incompatible transplantation

Authors: Jun Zeng, Ming Ma, Xiaojuan Jiang, Zhengsheng Rao, Dan Huang, Hao Zhang, Saifu Yin, Rong Bao, Haohan Zhang, Zhiling Wang, Hongwei Gao, Feng Gong, Tao Lin, Kaijin Zhang, and Tiyun Song

INTRODUCTION

Kidney transplantation is the best treatment for end-stage renal disease (ESRD), but ABO incompatibility limits donor options. Hyperacute rejection occurs due to pre-existing antibodies against ABO antigens. There are growing KT waiting lists leading to significant mortality. This situation is particularly critical for type O transplant candidates as they can only accept type O kidneys due to antibodies against both blood group A and B antigens.

PRINCIPLE

The H-antigen is an oligosaccharide which serves as a substrate for A and B antigens.Depending upon a person's ABO blood type, the H antigen is converted into either A antigen,or B antigen, or both. In a O blood group person, the H antigen remains unmodified.

The H antigen gets converted into B antigen by the addition of a galactose residue to the H antigen at the third position of galactose residue, forming the B-Ag. This is done by the enzyme alpha-1,3-galactosyltranferase B (GTB).

THE CONCEPT: Removing the galactose residue from the B antigen exposes the H antigen which is the characteristic of blood group O.

To convert type B RBCs to universal type O, alpha-galactosidase (B-zyme) from *Bacteroides fragilis* was used, which hydrolyses the alpha-1,3-galactose

Fig.1| A schematic representation illustrating the enzymatic conversion of type B RBCs to type O RBCs using B-zyme

EXPERIMENTAL METHODS

The following protocols were employed

- Kidneys from the same donor were subjected to a control group (without B-zyme treatment) or an ECO group (treated with 10µg/ml B-zyme)
- **PHASE 1:** All kidneys underwent HMP for 3 hours with or without B-zyme treatment
- **PHASE 2:** All kidneys were perfused with type O plasma (high anti-B antibody levels) and type O RBCs for 4 hours using NMP.
- **HUMAN DECEDENT KIDNEY TRANSPLANTATION:** ECO kidneys were transplanted into a type O brain-dead recipient (with high titres of anti-B antibodies)

PRESENTED BY- KARUNYA SAI SIDDANA

RESULTS

Fig. 2 | **B-zyme-treated kidney mitigates antibody-mediated injury in an ex-vivo model of ABOi KT. a** Upon H&E staining after phase-2 reperfusion, it was found that control kidneys had severe RBC accumulation and microthrombosis in glomeruli and arteries, and interstitial hemorrhage(arrows), while in the ECO group there is absence of RBC congestion and microthrombosis after 4 hour of reperfusion. **b** Representative images of TUNEL positive cells in control and ECO kidneys after 4 hours perfusion. Control kidneys have significant renal injury as seen by increased tunel positive cells (apoptosis markers). **c.** Quantification of TUNEL positive cells in control and ECO kidneys showing that control kidneys have more apoptotic cells.

Fig. 3 | **ECO kidney transplants in human decedent: a** Following a 3 h treatment with 10µg/ml B-zyme during HMP, a type B kidney was enzymatically converted to type O and subsequently transplanted into a type O brain-dead recipient. **b** Gross view of the ECO kidney during enzymatic conversion and operation. The ECO graft turned pink after revascularisation. However, the recipient suffered from severe anemia and thrombocytopenia and the experiment terminated at 63 hours post transplantation due to systemic circulatory failure. No hyperacute rejection was observed for 63 hrs post- transplantation.**B antigens re-expressed within 48 hours,however, there was no immediate rejection**

CONCLUSION

B-zyme treated type B kidney was successfully transplanted into a type O brain dead recipient and it showed good tolerance without hyperacute rejection or early phase acute antibody-mediated rejection (AMR). This approach may expand the donor pool for ABO incompatible transplantation. But further studies are needed to optimise antigen re-expression control and assess long-term graft rejection and this could be promising. It may eliminate the need for aggressive immunosuppression reducing infection risks.

REFERENCES

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Quiz conducted by Indian Psychiatric Society

Dhruv Pathak and **Sankruti Malpani** from Batch 2020 came **first** in the College level round of Psychiatry quiz and were selected to represent our college Dr. ND Desai Faculty of Medical Sciences and Research at GCS Medical College, Ahmedabad where they received the Third Place in Central Division Round of IPS UG Quiz, West Zone on 28th July 2024.



Skit Champs: NDDFMSR Wins Big

A team comprising **Krisha Aghara, Krish Bhimani,** and **Aditya** from the 2024 batch of Dr.NDDFMSR won **first prize** in the intercollege skit competition. The event was hosted by the Anatomy Department of Pramukh Swami Medical College as part of its Anatomy Day celebrations.



Best Actor Award for Vedant Joshi at IMA Competition

At the inter-medical college skit competition, which was hosted by the Indian Medical Association (IMA), the distinction of Best Actor Award was presented to **Vedant Joshi** of the 2024 batch.



Medical Students Give Back to the Community

On April 28, 2023, **Hiren Solanki** from the MBBS Batch of 2021 and a group of students organized a free health camp for 44 orphaned children, aged 5 to 18, from the Hindu Anath Aashram in Nadiad. The camp offered comprehensive health services, including assessments of BMI, blood reports, developmental milestones, and nutritional status. Furthermore, the student volunteers educated the children on the importance of hygiene, provided crucial menstrual and sexual health awareness, and discussed the significant role of doctors in society.





State Victory for NDD in Biochemistry 2025

Patel Divenaben Sandipkumar and **Nagvadiya Palak Mansukhbhai** of Batch 2024 secured the prestigious **1st Rank** at the Biochemistry State Level Quiz Competition 2025. The competitive event was organized and hosted by GCS Medical College in Ahmedabad.This victory is a significant commendation of the students' rigorous preparation, depth of knowledge, and the quality of education imparted by the faculty at Dr. NDDFMSR.



Forensic Fundamentals: Institute Team Earns Recognition at State Level Competition

A team of undergraduate students from our institution participated in the State Level Competition on "Forensic Fundamentals: From Injury to Courtroom," held on April 9, 2025, at PSMC, Karamsad. This distinguished event evaluated student competencies across rigorous rounds, including multiple-choice questions, the practical composition of an injury certificate, and participation in a mock court trial featuring cross-examination by a public prosecutor. The ten-member team demonstrated commendable commitment and academic proficiency throughout the competition, culminating in a significant achievement: **Ms. Rhea Keloth, Ms. Jency Bhanderi, Ms. Ashka Padhiyar, Ms. Ishika Padhiyar,** and **Ms. Urmi Bhimani** secured the **Third Prize**. This attainment reflects the high caliber of our students and their collaborative excellence in the specialized discipline of Forensic Medicine.



Editor's Note

Dear Readers,

It is with great excitement that we present this newsletter, a reflection of the vibrant life and dynamic achievements within our NDD medical faculty. Each article, interview, and highlights in these pages captures the dedication, creativity, and spirit of excellence that define our students, faculty, and staff.

This issue brings together stories of academic accomplishments, innovative research, cultural celebrations, and inspiring journeys that showcase how our campus continues to grow as a hub of knowledge and collaboration. Our goal has been to create not just a record of events, but a source of inspiration for all who are part of this ever-evolving institution.

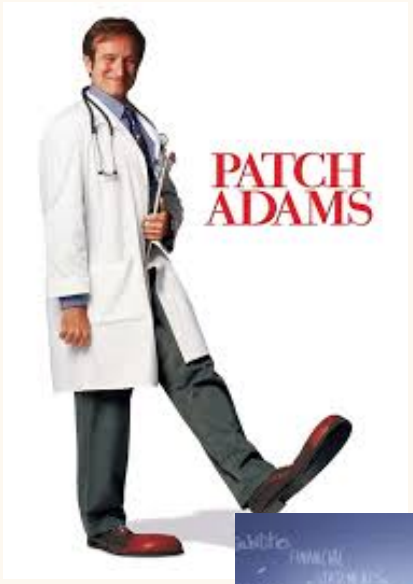
We extend our heartfelt gratitude to the contributors, and readers whose support makes this publication possible. May these pages encourage you to celebrate our shared successes and look forward to even greater milestones ahead.

Happy reading!



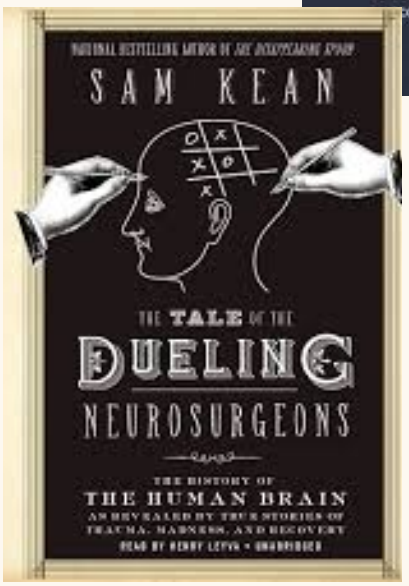
Stethoscope & Screen: Your Med School Entertainment Guide

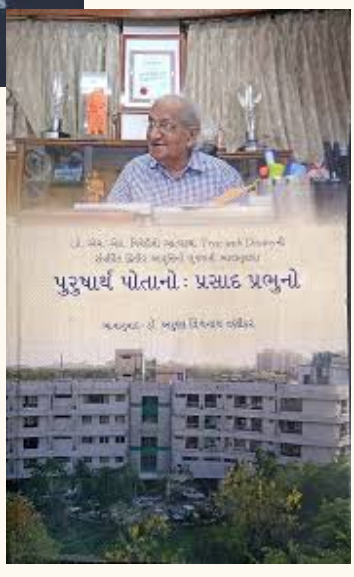
Between lectures, postings and late night study sessions everyone deserves a dose of good story-telling! Here's a curated list of movies, series and books that blend entertainment with inspiration.













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