



**DESH BHAGAT UNIVERSITY AMERICAS**  
**School of Medicine**  
FAIMER ID: F0006367

# #DBUA PULSE

The DBU Americas Medical Review

**Connecting Knowledge, Care,  
and Global Medical Excellence**



# NEWSLETTER

**APRIL 2025**

“ Message from the Chancellor ”

# Vision for Global Medical Education & Commitment to Excellence

It gives me immense pride to witness the launch of the first batch of our MD program at Desh Bhagat University Americas – School of Medicine, Saint Vincent and the Grenadines. This initiative is more than a milestone—it is a mission to prepare global citizens in healthcare who are not only competent in clinical skills but also compassionate in service.

We envision DBUA as a hub for transformative medical education where ethics, research, and patient-centered learning converge. Our commitment is to nurture a generation of physicians who can confidently serve humanity across borders. I welcome our pioneering students and assure them of our unwavering support as they begin this noble journey.

**Dr. Zora Singh**  
Chancellor, DBU and DBUA



“ Message from the Pro Chancellor ”

# Campus Life & Student Well-being

At DBUA School of Medicine, we believe that the learning environment is as crucial as the curriculum. Our Saint Vincent campus is a vibrant, safe, and supportive space where students can thrive academically and personally. From state-of-the-art classrooms and laboratories to well-planned residential and recreational spaces, every corner of our campus echoes with opportunity.

We are dedicated to student wellness, peer learning, and fostering a culture of inclusivity and global camaraderie. Your journey here will not only make you a doctor but also a well-rounded leader ready to serve with empathy and cultural sensitivity.

**Dr. Tajinder Kaur**  
Pro-Chancellor, DBU and DBUA





## Message from the President



# Innovation, Technology & Future of Medicine



The future of medicine lies at the intersection of science, technology, and human touch. At DBUA, we are integrating advanced simulation labs, AI-supported learning tools, and international best practices into our curriculum to ensure our students are future-ready.

Our faculty are not just teachers—they are mentors, researchers, and global professionals bringing real-world experience into the classroom. This first batch of MD students is setting a precedent for innovation and global outreach. We are proud to walk this journey with you, shaping the next generation of healthcare pioneers.

**Dr. Sandeep Singh**  
President, DBU and DBUA

# Shaping Excellence: A Commitment to Quality in Global Medical Education

As we proudly welcome our first batch of MD students at Desh Bhagat University Americas School of Medicine, we step into a new chapter—one defined by a deep commitment to quality, global standards, and transformative learning experiences.

In today's world, the definition of a successful medical professional is not limited to clinical knowledge. It encompasses ethics, cultural sensitivity, research aptitude, and a readiness to embrace evolving technologies. Our responsibility as a medical institution is not only to prepare students for examinations, but also to mold them into capable, compassionate, and globally competent physicians.

At the heart of this mission lies Quality Assurance—a continuous, institution-wide effort to maintain and elevate the academic and operational benchmarks that define our identity. From faculty recruitment to curriculum design, from student assessments to infrastructure development, every process at DBUA is guided by international best practices.

We follow a transparent, outcome-based education model aligned with global medical standards. Continuous feedback from students and faculty is integrated into our systems. We conduct regular academic audits, skill-based evaluations, and maintain a strong culture of mentorship and support.

Our partnerships and pathway opportunities for clinical rotations in the USA, UK, and the Caribbean further reflect our global outlook and commitment to excellence.

To our students, I say this: you are pioneers. Your journey will shape not just your own future, but also the legacy of this institution. And we are with you every step of the way—ensuring that quality is not just a goal, but a lived experience.

Let us together build a center of medical learning that the world recognizes and respects.

**Dr. Harsh Sadawarti**  
Dean-Quality Assurance  
Vice Chancellor, DBU



Dear Students, Faculty, and Esteemed Readers,

It gives me immense pleasure to share the inaugural edition of Pulse: The DBU Americas Medical Review, a platform dedicated to celebrating academic excellence, clinical insights, and the global journey of our medical students.

As we build a vibrant and globally connected School of Medicine in the Caribbean, our focus remains on nurturing compassionate physicians who are not only clinically competent but also socially conscious and globally relevant. This newsletter reflects our commitment to sharing knowledge, fostering innovation, and staying connected with our growing academic and healthcare community.

Through Pulse, we aim to highlight the achievements of our students and faculty, share research perspectives, and keep you informed about important developments, events, and collaborations that define the DBU Americas experience.

Together, let us continue to grow, learn, and make a meaningful impact in the field of medicine—across borders and beyond boundaries.

Warm regards,

**Er Arun Malik**

**Director, Operations**  
**Desh Bhagat University Americas School of Medicine**



“ An inspiring chance to meet the Prime Minister,  
a moment to cherish and remember. ”

# Dr. Zora Singh Chancellor, DBU and DBUA with Dr. Ralph Gonsalves. Hon'ble Prime Minister of St. Vincent and the Grenadines



A momentous day for Desh Bhagat University as Chancellor **Dr. Zora Singh**, Pro Chancellor **Dr. Tajinder Kaur**, and DBUA Director Operations **Mr. Arun Malik** had the privilege to interact with Hon'ble Prime Minister of St. Vincent and the Grenadines, **Dr. Ralph Gonsalves**.



Desh Bhagat University is pleased to announce a significant milestone in its international collaborations. Our esteemed **President, Dr. Sandeep Singh**, recently held a productive meeting with the **Honorable Camillo Gonsalves, Minister of Finance, Economic Planning, and Information Technology of Saint Vincent and the Grenadines**, who is also the son of Prime Minister Ralph Gonsalves. This engagement underscores our commitment to global educational excellence and strengthens our presence in the Carribean Region, North America.



# Worthy Pro Chancellor, DBU and DBUA lead delegation meets First Lady of St.Vincent Hon'ble Eloise Harris





*Where The*  
**WORLD COMES  
TO LEARN**

# MEDICINE



**DR. SANDEEP SINGH, PRESIDENT AND DR HARSH SADAWARTI, VICE PRESIDENT  
WITH TEAM DBU AMERICAS CAMPUS, ST. VINCENT**



**DR. SANDEEP SINGH, PRESIDENT AND DR HARSH SADAWARTI, VICE PRESIDENT  
WITH TEAM DBU AMERICAS CAMPUS, ST. VINCENT**

## Vice President *Engages with Future* Doctors at **DBU Americas**

# WHERE THE *World* COMES TO LEARN MEDICINE

DR. SANDEEP SINGH, PRESIDENT AND  
DR HARSH SADAWARTI, VICE PRESIDENT  
WITH TEAM DBU AMERICAS CAMPUS, ST. VINCENT

Vice President Inspires  
MD Students for Global  
Medical Careers



AI & Healthcare:  
Vice President's Vision for  
*Future Doctors*



VICE PRESIDENT  
DISCUSSES GLOBAL  
MEDICAL PATHWAYS  
WITH MD STUDENTS



# AI IN MEDICINE: MIRACLES MEET MAYHEM

Picture a time when a machine finds cancer quicker than a doctor's glance, alerts you to a heart attack days ahead, or picks up a dangerous infection in a flash. It is the awesome power of Artificial Intelligence that makes these brilliant dreams real and changes medicine with incredible skill.

AI is blowing minds at medical centers everywhere. At Beth Israel Deaconess in Boston, an AI powered microscope checks blood samples and spots dangerous bacteria like E. coli with 95% accuracy, beating humans at their own game. At Cleveland Clinic, smart programs look at patient info and warn doctors about heart risks, helping save lives before trouble starts. And at Parkland Health in Dallas, AI makes sure no one is missed on scan follow ups, keeping patients safe. These are not just gadgets, they are like a lifeline, making care faster and better than ever.

Here is my cybersecurity view: AI needs data, and weak protection can turn good into bad. In 2021, hackers attacked Scripps Health in San Diego with ransomware. The staff could not access AI tools and patient records; hence, medical care was put to a hold for weeks while the hackers got paid. In 2023, University of Vermont Medical Center had an incident, where patient data used by AI was stolen, slowing everything down and costing a lot. These are not just small problems; they are big red flags. Without strong cybersecurity, AI's great work can be attacked, putting lives at risk.

AI is the next great leap in medicine, but it is not perfect. For St. Vincent's doctors, students, and staff, using this tech means adding super strong security. As someone who cares about cybersecurity, I know what is at risk: keep the data safe, and you keep the future safe. Let us enjoy AI's amazing benefits while stopping the trouble.



**Author: Chahak Mittal, CISSP**  
(Manager of Security Engineering,  
Learning Care Group, USA)

## A NEW ERA OF HEALING: HOW AI IS REVOLUTIONIZING NEURONREPAIR AND NERVOUS SYSTEM TRAUMA RECOVERY

Imagine the arduous journey of recovery following a significant nervous system injury. Conditions like spinal cord damage or stroke present profound challenges, often leading to long and complex paths toward healing. Now, a powerful ally is emerging in this critical field: artificial intelligence (AI).

This revolutionary technology is poised to transform our understanding and treatment of neurological conditions, offering innovative approaches to repair damaged neurons and facilitate healing after trauma. AI is proving invaluable in the initial stages of diagnosis and assessment. By analyzing intricate medical images and vast datasets, AI algorithms can precisely determine the extent of nerve damage, providing doctors with a much clearer and more detailed picture than traditional methods. This enhanced diagnostic capability is fundamental, as an accurate understanding of the injury is the crucial first step in formulating effective repair strategies.

Furthermore, AI can go beyond simply identifying damage; it can also predict a patient's likely recovery trajectory. By analyzing various factors, AI models can forecast potential outcomes, enabling clinicians to develop personalized treatment plans tailored to each individual's unique needs and circumstances.

This predictive power shifts the approach from reactive to proactive, allowing for timely interventions and optimized resource allocation. The burgeoning field of AI-assisted nerve regeneration therapy further exemplifies this progress. Here, machine learning algorithms actively guide and optimize the intricate process of nerve repair, demonstrating particular promise in cases of peripheral nerve injuries and spinal cord trauma.

This therapy utilizes AI for advanced diagnostics, predictive modeling of recovery, and the control of neuroprosthetics and robotic rehabilitation systems, offering a comprehensive strategy to enhance nerve regeneration. Beyond diagnostics and guidance, AI is also powering groundbreaking tools for healing and restoring lost function. Neuroprosthetics, which aim to bridge the gap between the nervous system and external devices, are being significantly enhanced by AI. Sophisticated AI algorithms can now decode the complex neural signals generated by the nervous system, allowing individuals with injuries to control prosthetic limbs with remarkable intuitiveness. Moreover, AI is enabling these devices to provide sensory feedback, making them feel like a natural extension of the body. Robotic rehabilitation systems are another

area where AI is making a profound impact. These intelligent systems can deliver personalized and adaptive exercises designed to promote neuroplasticity, the brain's remarkable ability to rewire itself after injury. By understanding and leveraging this natural adaptability, AI can optimize rehabilitation protocols for more effective recovery. Additionally, the development of AI-powered wearable devices offers continuous monitoring of a patient's condition, providing real-time feedback that allows for timely adjustments to therapy and potentially prevents complications. Looking to the future, the potential of AI in revolutionizing neurological care is immense.

We can anticipate even faster and more accurate diagnoses, increasingly personalized and effective treatments, and significantly enhanced rehabilitation outcomes, all contributing to an improved quality of life for patients. Future possibilities include AI-driven implantable devices that provide continuous feedback and autonomously adjust treatments, as well as AI's crucial role in accelerating the discovery of new drugs for a wide range of neurological conditions. As AI becomes more deeply integrated into healthcare, it is crucial to address ethical considerations such as data privacy, algorithmic bias, and the need for transparency to ensure responsible and equitable implementation. In conclusion, artificial intelligence offers a transformative potential in the realm of neuron repair and nervous system trauma healing. These advancements bring a renewed sense of hope for individuals striving to recover from debilitating neurological injuries, promising a future where intelligent technology works hand-in-hand with medical expertise to facilitate healing and enhance lives.



**ANSHU VISHWAS**  
4 yr MD student at DBU

# TECHNOLOGY IN DERMATOLOGY

**Introduction:-**In this modern time, each and every person wants to be updated in all the facilities... It can be health wealth and most important thing is... Looks!. Skin care, skin products are manufactured and used in very large scale. Dermatology is one of the Branch in Medical field which deals with both the medical and surgical aspects and treatments on Skin hair and nails



Here we're going to see one of the popular technology which is used in Dermatology. That is laser treatments.



Laser treatments are basically used to cut, destroy or to burn the skin tissues For treating various skin problems and medical conditions. Most popular are Electrosurgery, Excision surgery, mole removal, scar removal, skin grafting, etc.

## ELECTROSURGERY:

This is the method which is used to destroy, cut the tissue for removal of the skin cancer, warts and skin tags. In this the high frequency electric current is used for the removals.



## EXCISION SURGERY:

This treatment is used for removal of the skin tissues, moles and some skin cancers. But the scalpel is used for the removal of those.

## MOLE REMOVAL :

as per its name... This treatment is used widely and common for the removal of moles. Which is nothing but the clusters which are formed by the pigmentation of the skin by melanocytes pigments.



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## Are these treatments safe?

- If they are performed by the professionals, of course they are!
- The skin treatments are safe and have no harm to the skin. Also, the modern techniques and the new technologies have decreased the rates of damage and safety. However, there are some risks and side effects of these treatments.

## Risks and side effects:-

- **Infections:** There is a small risk of infection which is caused by the breaking of skin barrier. But it's rare and happens very few times.
- **Temporary swelling and redness :** Many processes may lead to redness and swelling. But it is temporary and subsides after few days.
- **Allergic Reactions:** Some people may be allergic to some products which are used in the treatment. Consulting to the doctor before treatment can be useful for such cases.
- **Skin pigmentation:** Some can cause the skin pigmentation after the treatment but there are rare cases of it and it is temporary.

So, if you want to look gorgeous and flawless, the skin treatment can be a good option. But one of the drawbacks in skin treatment is, some treatments like laser resurfacing are costly and money consuming. That's why it is important to gain the information before the treatment... Otherwise the skin treatments are modern, smart and very effective and can change your life.



**SAIVIRAJ M. BHANDARE**  
MD Student and Researcher

# AI IN HEALTHCARE: A POWERFUL ALLY FOR THE DOCTORS OF TODAY AND TOMORROW



**REHANA AMEER**  
*Founder, SMAART Healthcare,  
United Kingdom*

Artificial Intelligence (AI) is transforming healthcare by optimizing decision-making, advances diagnostic accuracy, and deliver personalized care. From interpreting imaging studies to analysing psychological patterns, AI is advancing healthcare capabilities by making it more efficient, responsive, and patient-friendly.

While AI was once seen as a tool mainly for tech companies, it's now creating meaningful impact in physiotherapy. Real-time motion tracking enables therapists to monitor joint movements during rehabilitation, while telerehabilitation ensures continuity of care even at a distance. These innovations not only enhance clinical precision but also increase patient involvement and access. AI is helping physiotherapists become more data-driven while still staying connected to the human aspects of healing.

There is a growing interest in the integration of artificial intelligence (AI) within the field of physiotherapy, particularly among emerging professionals and students. As one of our interns, a budding physiotherapy student, mentioned, "I believe AI can ease our workload and redefine physiotherapy by making it more accessible. What was once discussed only in AI tech conferences is now becoming part of our clinical conversations among my batchmates. Many of my friends are genuinely interested in how AI can support our practice. It's not about replacing human care, but about enhancing our efficiency and enabling more personalized, patient-centred treatment" This insight reflects the mindset of the younger generation—curious, adaptive, and open to blending innovation with empathy. For them, AI is not viewed as a replacement for human expertise but as a powerful tool to refine clinical decision making and enrich the therapist–patient connection.

Alongside physiotherapy, other medical fields are also embracing AI-powered solutions. In radiology, AI enables the ability to detect abnormalities in X-rays, MRI, and CT scans with great accuracy. These systems enhance clinicians' efficiency by identifying potential

issues, lowering the likelihood of diagnostic errors and quickening the interpretation process.

Similarly, in the complex landscape of oncology, AI is analysing patterns in large datasets, improving the early detection of cancer, and predicting tumour responses to various treatments. This advancement support oncologist to adapt treatment of each patient, resulting in better treatment effectiveness and ensuring more individualized care.

The role of AI is also proving critical in cardiology. It is being used to monitor heart rhythms, predicting cardiac events and providing real time alert to healthcare providers. These innovations facilitate early intervention, enhancing patient outcomes and decreasing the risk of complications.

In mental health, AI monitors behaviour, analyse communication cues for emotional distress, and bridge gaps between appointments. These developments help in early detection and guiding patients towards expert care.

In the realm of primary and general care settings, AI assists in sorting symptoms, manage patient records automatically, and support consistent care by reminding healthcare providers to necessary evaluations and follow-ups.

At the core of all these advancements is a shared goal, enhancing patient-centred care. These innovations support care that is aligned with patients' values and preferences, enabling them to actively participate in healthcare decisions. As a result, patient engagement, satisfaction, and health outcomes are significantly improved.

Importantly, AI works alongside healthcare providers, not instead of them. It handles the background work and increase the productivity of healthcare providers helping to stay focused on connecting with patient, better decision making, and providing patient-centric care.

As we look toward the future, it is essential for healthcare professionals to embrace Artificial

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Intelligence (AI) as a collaborative partner that enhances their capacity to deliver smarter, more personalized, and compassionate care. The future of healthcare is not solely digital; rather, it remains fundamentally human, supported and amplified by intelligent technology.

Importantly, the next generation of healthcare providers is already demonstrating a readiness to adapt, explore, and integrate AI into their clinical thinking and practice. From academic discussions to clinical internships, future clinicians are approaching AI not with resistance but with curiosity and a commitment to improving patient care through innovation.

At SMAART Healthcare, we lead this transformation as a next-generation advanced multi-specialty phygital clinic, bridging the physical and digital realms. By integrating the capabilities of AI with evidence-based practices and the gold standards of modern medicine, we are reshaping healthcare delivery to be more accessible, affordable, preventive, and centred around the unique needs of every patient. We are actively working alongside students and clinical professionals to support the evolving perspective on AI, ensuring that future healthcare providers are prepared to adapt, innovate, and provide care that is both technologically empowered and human-focused.

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# DESH BHAGAT UNIVERSITY AMERICAS (DBUA) SAINT VINCENT AND THE GRENADINES. WHY DBUA?



**DR. NIKOLOVA**  
Associate Dean, DBUA

## Before I answer this question, let me ask you:

1. Do you know how many physicians are needed for the USA? The answer is 64 000 just for the year 2026. The need for doctors in the USA is projected to increase due to population growth and aging. By 2036 there is expected to be a deficit of approximately 140,000 physicians, including primary care providers and specialists.
2. How about Canada? Here is the answer: The deficit between supply and demand for family physicians is 22, 823 for the year 2026, and only approximately 1,300 new graduates per year. Canada has an urgent need for doctors. In 2021, there were 93,998 doctors in Canada, with 246 doctors per 100,000 population. However, more than six million Canadians don't have a family doctor
3. Several European Union countries are facing a shortage in the health care sector, particularly specialist doctors and nursing professionals. Most countries in Europe need tens of thousands of doctors, nurses, and other medical staff due to aging populations, health problems, and workforce attrition. Some countries are attracting foreign talent to address these shortages
4. I know that you will ask about India. India will require 2.07 million additional doctors by 2030 to achieve a 1:1,000 doctor-to-population ratio. The shortage of doctors, especially in rural areas, is a critical issue.

We live in a situation of a high demand for Physicians around the globe. You can translate it as job security, social status, mutual respect with the community you are working at. I remember one of my students was dreaming of vacuum cleaner Rainbow (with water cleaning system). She studied and studied and then, with her first salary she bought the machine.

## What DBUA offers?

- A team of highly experienced faculty in any area of medical education and devoted Dean's Office.
- A possibility to do your rotations at top hospitals of your choice in the USA, Canada, SVG, India, etc.
- A team of highly experienced administrators is helping you in your journey toward your dream: a beautiful, freshly renovated building of DBUA, comfortable hostels for the students, home-cooked breakfast, lunch, and dinner delivered to you at school or home on Saturday and Sunday. Transportation to get from your home.
- A team of local professionals to help you to have a smooth transition from home to the Island.

So if you have that caring personality, are willing to help people when they are most vulnerable, and are ready to study hard and develop the skills needed to be a physician, you need to call us, provide all necessary transcripts and documents, come to the beautiful island of Saint Vincent, and start your journey toward becoming a Doctor.



**BEST UNIVERSITY IN NORTH AMERICA**

## **DBUA PROGRAMS OFFERED**

### **School of Medicine**

**DOCTOR OF MEDICINE  
(MD)/MBBS 5 Yrs  
PRE-MED COURSE  
BS-BIO MEDICINE SCIENCE**

### **School of Yoga**

**BS IN YOGA  
MS IN YOGA**

### **School of Nursing**

**RN ( REGISTERED NURSE)  
Certificate Programme**

### **School of Business**

**MBA 1.5 Yrs  
BBA 4 Yrs**



**CAMPUS:** DESH BHAGAT UNIVERSITY AMERICAS  
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