Nguyen Viet Hoang, MD, MBA

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Physician and medical device leader in product development, quality and clinical affairs, graduate of Hanoi Medical University (MD) and VinUniversity (MBA), with more than 6 years leading operations, quality systems, regulatory affairs and clinical coordination for personalized 3D-printed medical devices. Brought the personalized surgical guide to a Class B medical device declaration and commercial supply to 18 hospitals, now leading the registration roadmap for personalized titanium implants (Class C/D); built certified ISO 9001 and ISO 13485 systems; coordinated 09 draft national standards (TCVN) and serve on the Ministry of Health national standards drafting team for medical devices. **Trained in quality management, additive manufacturing and 3D surgical planning in Israel, Germany and India.**

PROFESSIONAL EXPERIENCE

Chief of Office, Executive Committee | Vietnam Association of 3D Technology in Medicine • **Built and ran the Association** from the founding committee to official operation: organizational structure, a 30-member Executive Committee and a network of more than 200 experts, clinicians, engineers and companies; completed the legal set-up with the Ministry of Home Affairs within 01 year. • **Head of the Technical Subcommittee on Standards**: completed 09 draft TCVN national standards submitted to the Ministry of Health and launched 11 more, forming the standards framework for medical 3D printing in Vietnam. **Member, National Standards (TCVN) Drafting Team | Institute of Medical Equipment and Health Works (Viện Trang thiết bị và Công trình y tế), Ministry of Health** **Representing the Association, 04/2026 – present (Decision No. 177/QĐ-VTTB dated 10/4/2026)** • Ministry of Health science and technology task on national standards for medical devices (Decision No. 3041/QĐ-BYT), 33-member drafting team. • **Software and reusable surgical instruments:** IEC 62304 (software life cycle), IEC 62366-1 (usability), ISO 17664-1 (reprocessing), ASTM F86 (metallic implant surfaces). • **Metal and polymer additive manufacturing:** ISO/ASTM 52920 (process qualification), 52910 (design for AM), 52907 (metal powders), ASTM F2924, F3001 (Ti-6Al-4V), F2026 (PEEK).	2025 – now
Operations Manager | Operations, Quality Management & Data Systems *Institute of 3D Technology in Medicine, VinUniversity (Research Assistant, 3D Technology in Medicine Center, 2022 – 10/2026)* • ***Product and regulatory roadmap:*** *brought the personalized surgical guide from development to a Class B declaration and manufacturing and trading eligibility, supplying 18 hospitals; leading the registration roadmap for personalized titanium implants, Class C/D (ISO 10993 biological evaluation, ASTM F2924/F3001 mechanical testing, metal AM process validation, clinical evaluation), toward FDA and CE-MDR submissions.* • ***Quality system:*** *ISO Lead who built the QMS from scratch to ISO 9001:2015 and ISO 13485:2016 certification, covering design controls, risk management, traceability, internal audits, CAPA and management review; track quality KPIs (defect rate, lead time, equipment) on an executive dashboard.* • ***Regulatory affairs:*** *dossiers under Decree 98/2021/ND-CP (classification, declaration of applicable standards, manufacturing and trading eligibility) and in-house standards*	2022 – now

for 5 product lines; working with the Hanoi Department of Health and the Ministry of Health. • ***Clinical affairs:*** *work with surgeons at 18 hospitals on surgical planning and design approval; post-operative follow-up, complaint and incident handling, root cause investigation and CAPA; clinical data for research.* • ***Program and operations:*** *coordinate design, simulation, polymer and metal manufacturing and QA/QC to surgery dates for more than 1,300 cases across 7 product lines in 10 provinces; built the VCMS system for schedule, resources, SLAs, costing, contracts and revenue; lead a team of 6; revenue grew from VND 2.4 billion (AY24–25) to VND 3.2 billion (AY25–26).* • ***Strategy and organization:*** *led the dossier establishing the Institute of 3D Technology in Medicine as a science and technology organization (registered 10/2026): charter, organizational structure, job descriptions, headcount and budget; prepared submissions to University and Group leadership; advise on R&D strategy, product portfolio and business model.* • ***Software and AI:*** *developed AI software for automated lower-limb alignment measurement to support knee arthroplasty planning, and a cranial defect reconstruction application based on statistical shape models.* • ***Partners:*** *18 hospitals, the Ministry of Health, the Hanoi Department of Health, ASTM International, Sheba Medical Center (Israel), NTTF (India), SLM Solutions, Stratasys; training and collaboration in Germany, Israel, India, Taiwan, Singapore and China.* **Research Data Manager | College of Health Sciences, VinUniversity** **Research Data Systems & Research Intelligence** • Built and run the CHS research data system and research intelligence dashboards (Scopus, Crossref, OpenAlex, PubMed, SJR) for the Dean and leadership. **Researcher / Biostatistician | College of Health Sciences, VinUniversity** • Statistical analysis and methods consulting for immunology, pediatrics, medical education, epidemiology and 3D technology projects in R/Python.	

EDUCATION AND TRAINING

Year	Degree / Training	Notes
2025 – 2026	**Master of Business Administration (MBA) – VinUniversity**	**Scholarship:** Full Industry Scholarship **Capstone Project:** V-Prevent: development and feasibility evaluation of a digital platform for remote cardiovascular monitoring, triage and early risk detection in adult cardiovascular patients in Vietnam. **Funding:** VinUni CHS Seed Grant AY2025-26, **USD 20,000** (study code CHS.UNI.2026.DA016G)
6-year program	**Doctor of Medicine – Hanoi Medical University**	Graduation Thesis: Assessment of Knowledge, Attitude, and Practices of Healthcare Workers in Preventing Hospital-acquired Tuberculosis Infections at the National Lung Hospital in 2020 Thesis Score: **9.8/10.**
2022 (09 – 14/05/2022)	**Implementing ISO 9001 (QMS), ISO 14001, ISO 45001 for 3D Printing Centre, 48 hours, Competency Certificate No. 4084**	**Nettur Technical Training Foundation (NTTF), Electronics City, Bangalore, India**
2023 (02 – 13/07)	3D Technology in Surgical Planning and Preparation Training	Sheba Medical Center, Tel HaShomer, Israel, at the PlanNeT surgical 3D planning center. *Dr. Dina Orkin (Head of surgical 3D planning center PlanNeT), Or Benifla (Senior Clinical Designer)*

RESEARCH AND PUBLICATIONS

17 publications (14 international, 3 national) | h-index: 3 (ResearchGate) | 6 international publications in 2025, including 5 Q1 and 1 Q2 | Selected:

- Spatiotemporal dynamics of water quality in the lower Mekong Basin: a decadal multi-parameter analysis (2011–2020) - Duy Mai Hoang#, **Hoang Viet Nguyen**#, Ly QV*, Ly K, Phan LN, Diep PD, Huynh DC DOI: 10.1016/j.teadva.2026.200184 (Total Environment Advances, 2026; #co-first author)
- Suboptimal knee prosthesis design for Vietnamese women: a computed tomography-based arthrometric study - Tu Hoang Thanh Pham, Hieu Trung Pham, Nam Tu Vu, **Hoang Viet Nguyen**, Dung Trung Tran, Nang Vo Sy Quyen DOI: 10.5603/fm.103066 (Folia Morphol – Warsz: IF = 1.2)
- Outcomes of modified single trocar laparoscopic catheter placement for maintenance peritoneal dialysis in children - Quang Thanh Nguyen, Viet Duy Nguyen, Hoan Xuan Vu, Hung Manh Do, Trang Thu Dang, **Hoang Viet Nguyen**, Dung Anh Le DOI: 10.1007/s00467-026-07590-2 (Pediatric Nephrology, accepted September 2026, in press)
- Surgical and functional outcomes of pediatric pancreatic solid pseudopapillary neoplasm: A retrospective study - Hoan Manh Vu, Hien Duy Pham, Son Cong Nguyen, Nhi Yen Bui, **Hoang Viet Nguyen**, Ngoc Luong Khanh Nguyen, Quang Thanh Nguyen DOI: 10.1371/journal.pone.0357019 (PLOS One, 2026)
- Quynh, T. A.; Pham, H. D.; Dang, T.; Nguyen, L.; Ly, D. B.; Nguyen, N.; **Nguyen, H**.; Nguyen, Q. What is the diagnostic accuracy of contrast enema for Hirschsprung disease during COVID-19 service disruption in Vietnam? A retrospective study. **BMJ Open. Original research.** DOI: 10.1136/bmjopen-2025-111494

In Progress

- Nguyen VH*, Nguyen QD, Do VL, Nguyen HL, Ngo TN, Nguyen HH, Nguyen THT, Le MBC, Vo SQN, Pham TH, Tran TD*. Cranial shape completion with calibrated patient-level uncertainty from a statistical shape model learned on pathological CT. Under review, 2026. *Corresponding author.
- Dang TH, Hoang VN, Nguyen SH, Dang KN, Tran DLD, Nguyen NLK, Nguyen QT. Long-Term Outcomes of Intralesional Bleomycin Sclerotherapy for Pediatric Cervical Lymphatic Malformations: A Large Cohort of 259 Patients. Submitted to Journal of Pediatric Surgery, May 2026.
- Dang TH, Tran DLD, Dang KN, Nguyen VKH, Hoang VN, Nguyen SH, Bui NY, Ngo MQ, Nguyen NLK, Nguyen QT. Safety and Effectiveness of Ultrasound-Guided Intralesional Bleomycin Sclerotherapy for Pediatric Chest Wall Lymphatic Malformations. Submitted to Journal of Vascular Surgery: Venous and Lymphatic Disorders, May 2026.
- Ly DB, Dang TH, Tran DLD, Dang KN, Nguyen VKH, Hoang VN, Nguyen QT. Clinical Outcomes of Ultrasound-Guided Bleomycin Sclerotherapy for Pediatric Lower Extremity Lymphatic Malformations: A Retrospective Cohort Study. Submitted to Scientific Reports, May 2026.