

# RESEARCH EXPERIENCE AND BACKGROUND

## I. General information

1. Full name: Hai Nguyen Ngoc Dang
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3. Phone: +84 358762292
4. Date of birth: February 26, 1995
5. Address: 19/107 Duy Tan Street, Hue City, Vietnam
6. Nationality: Vietnamese
7. Academic Profiles
  - 7.1. Google Scholar: [Google Scholar](#)
  - 7.2. ResearchGate: [Research Gate](#)
  - 7.3. ORCID: 0009-0006-4512-4658



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## II. Research focus and achievements

My research activities are primarily focused on internal medicine, with a particular concentration in cardiology and metabolic disorders. I have engaged extensively in both clinical and translational research, aiming to bridge real-world clinical practice with scientific inquiry.

To date, I have authored and co-authored over 17 peer-reviewed articles published in internationally recognized journals ranked Q1, Q2, and Q3. Several additional manuscripts have been accepted and are currently in the production stage, thus not included in the current publication count.

In the field of academic publishing, I actively contribute as a peer reviewer for multiple scientific journals. I have also led numerous investigator-initiated clinical studies and currently serve as a member of the scientific committees for major Vietnamese cardiovascular societies, including those specializing in atherosclerosis, heart failure, and general cardiology.

Furthermore, I hold the position of principal investigator for projects dedicated to innovations in medical education, particularly focusing on the integration of digital health technologies and active

learning methodologies. I am also a key coordinator for municipal and regional-level research projects, facilitating collaboration between universities and hospitals.

Throughout my academic journey, I have been honored with several awards for excellence in scientific research and mentorship awards for supervising undergraduate students in national scientific competitions in Vietnam.

### III. Peer-reviewed publications

#### PUBLISHED

1. **Dang HNN**, Luong TV, Ho BA. Evaluation of the relationship between left atrial stiffness, left ventricular stiffness, and left atrioventricular coupling index in type 2 diabetes patients: a speckle tracking echocardiography study. **Front Cardiovasc Med**. 2024 Apr 25;11:1372181. doi: 10.3389/fcvm.2024.1372181. PMID: 38737712; PMCID: PMC11084270. **First Author**
2. **Dang HNN**, Viet Luong T, Cao MTT, Bui VT, Tran TT, Nguyen HM. Assessing red blood cell distribution width in Vietnamese heart failure patients: A cross-sectional study. **PLoS One**. 2024 Jul 23;19(7):e0301319. doi: 10.1371/journal.pone.0301319. PMID: 39042640; PMCID: PMC11265657. **First Author**
3. **Dang HNN**, Luong TV, Nguyen Khoi Q, Nguyen UNP, Pham NNK, Tran HTN, Tran HK, Cao MTT, Ho BA, Doan TC, Nguyen HM, Anh Hoang T, Van Huynh M. Alterations in aortic elasticity indices among type 2 diabetes patients in a low and middle income country using M-mode echocardiography: A cross-sectional comparative study. **PLoS One**. 2024 Oct 24;19(10):e0305799. doi: 10.1371/journal.pone.0305799. PMID: 39446822; PMCID: PMC11500911. **First Author**
4. **Nguyen Ngoc Dang, H.**, Viet Luong, T., Kiem Pham, A. et al. Exploring the bidirectional link between erectile dysfunction and 10-year cardiovascular risk in men with diabetes and hypertension. **Sci Rep** 14, 28816 (2024). <https://doi.org/10.1038/s41598-024-78182-z> **First Author**
5. **Dang, H. N.**, Luong, T. V., & Tran, T. T. (2024). Evaluating left atrial function changes by speckle tracking echocardiography in type 2 diabetes patients in Central Vietnam: A cross-sectional comparative study. **The Egyptian Heart Journal**, 76(1), 1-9. <https://doi.org/10.1186/s43044-024-00470-w> **First Author**
6. Doan CT, Tran KH, Luong VT, **Dang-Nguyen NH**, Ton-Nu V. Efficacy of Artificial Intelligence Software in the Automated Analysis of Left Ventricular Function in Echocardiography in Central Vietnam. **Acta Inform Med**. **Co-Author**

2023;32(1):32-36. doi: 10.5455/aim.2024.32.32-36. PMID: 38585607; PMCID: PMC10997171.

7. **Dang HNN**, Luong TV, Tran TT, Hoang TA. The correlation between liver fibrosis and the 10-year estimated risk of cardiovascular disease in adults with metabolic-associated fatty liver disease: A cross-sectional study in Vietnam. *Health Sci Rep*. 2024 May 8;7(5):e2102. doi: 10.1002/hsr2.2102. PMID: 38725561; PMCID: PMC11079443. **First Author**

8. Luong TV, Nguyen NVD, Le LD, Nguyen Hoang Minh H, **Dang HNN**. Enhancing global hepatocellular carcinoma management: Bridging Eastern and Western perspectives on dexamethasone and N-acetylcysteine before transarterial chemoembolization. *World J Gastroenterol* 2024; 30(47): 4983-4990. doi:10.3748/wjg.v30.i47.4983. **Corresponding author**

9. Nguyen NTY, Luong TV, Nguyen DX, Le LD, **Dang HNN**. Understanding gastric metastasis of small cell lung carcinoma: Insights from case reports and clinical implications. *World J Gastroenterol* 2024; 30(47): 5092-5096. DOI: 10.3748/wjg.v30.i47.5092 **Corresponding author**

10. Hoang AT, Bui TV, Ho HB, Pham TMD, Le TPT, Cao TTM, **Dang NNH**, Luong VT, Huynh TNG. The association of red cell distribution width with high cardiovascular risk according to SCORE2, SCORE2-OP scoring systems in hypertensive patients. *Vietnam Medical Journal*. 2024 ; 544 (Special Issue), 5-  
<https://tapchihocvietnam.vn/index.php/vmj/article/view/11645> **Co-Author**

11. Thang LV, **Hai DNN**. Research for the value and safety of endoscopic ultrasound and endoscopic ultrasound fine-needle aspiration (EUS-FNA) in the diagnosis of pancreatic cancer. *Vietnam Journal of Community Medicine*. 2023;64(Special Issue 9):115-123. **Co-Author**

12. **Hai DNN**, Thang LV. Early identification of left atrial functional abnormalities by two-dimensional speckle tracking echocardiography in patients with type 2 diabetes mellitus. *Vietnam Journal of Community Medicine*. 2023;64(Special Issue 9):139-145. **First Author**

13. **Dang HNN**, Luong TV, Pham NC, Nguyen HT, Hoang TA, Ho BA, et al. Double Kissing Crush Versus Provisional Stenting for Coronary Bifurcations: A One-Year Follow-Up Study in Vietnam. *J Soc Cardiovasc Angiogr Interv*. 2024. 10.1016/j.jscai.2024.102500 **First Author**

14. Luong TV, Nguyen NVD, Le LD, **Dang HNN**. Persistent challenges in diagnosing acute pancreatitis due to primary hyperparathyroidism in pregnancy. **Corresponding author**  
*World J Gastroenterol* 2024. 10.3748/wjg.v31.i7.100973
15. **Hai NND**, Thang VL, Nhi TY, Hung KT, Hieu TN, Hung MV, Thanh VH, Ngoc TMV, Thanh TT, Toan SD, Van TT, Tien AH, Phuoc LH, Binh AH, Hung MN. Assessment of the Right Ventricular Strain, Left Ventricular Strain, and Left Atrial Strain Utilizing Speckle Tracking Echocardiography in Patients with Chronic Obstructive Pulmonary Disease. **BMJ Open Respiratory Research**. **First Author**  
10.1136/bmjresp-2024-002706
16. Nguyen Tran T, Luong TV, Nguyen NVD, **Dang HNN**. Complex relationship between childhood obesity and the gut microbiota. **Corresponding author**  
*World J Clin Pediatr* 2025; 14(2): 100975 [DOI: 10.5409/wjcp.v14.i2.100975]
17. Luong TV, Cao MTT, Nguyen NVD, Dang HNN, Nguyen TT. Roles of autophagy and long non-coding RNAs in gastric cancer. **Corresponding author**  
*World J Gastroenterol* 2025; 31(11): 101124 [PMID: 40124267 DOI: 10.3748/wjg.v31.i11.101124]

## IN PRESS

1. **Nguyen Ngoc Dang H**, Viet Luong T, Ho BH, Anh Hoang T, Xuan Mai A, Minh Nguyen H. Comparing the value of left atrial strain and HFA-PEFF score in diagnosing heart failure with preserved ejection fraction: a cross-sectional study. medRxiv. 2024 May 16:2024-05. **First Author**
2. Thang VL, **Hai NND**, Ngoc TBN, My TL, Quang LVT. Quantifying Left Atrial Dysfunction in Heart Failure: A Comparative Analysis of Heart Failure with Preserved and Reduced Ejection Fraction Using Speckle Tracking Echocardiography. **Journal of Diagnostic Medical Sonography** **Co-Author**

## UNDER REVIEW

1. **Nguyen Ngoc Dang H**, Viet Luong T, Khanh Tran H, Ha Tuyet Le N, Hoang Nhat Nguyen M, Chi Doan T, Minh Nguyen H. Left Atrioventricular Coupling Index in Heart Failure Patients Using Echocardiography: A Simple Yet Effective Metric. medRxiv. 2024 Jun 28:2024-06. **First Author**
2. **Hai Nguyen Ngoc Dang**, Thang Viet Luong, The Trung Le et al. Association between Adiposity Indices and Metabolic Syndrome Risk in Type 2 Diabetes: Insights from the PREDICT-DANANG Cohort Study in Vietnam **First Author**

3. **Hai Nguyen Ngoc Dang** et al. Cardiovascular risk reassessment in patients with type 2 diabetes using the SCORE2-Diabetes model in a low-to-middle-income country: a Vietnamese multicenter cross-sectional study **First Author**
4. Thang Viet Luong, **Hai Nguyen Ngoc Dang** The bilirubin-to-albumin ratio: A potential biomarker for predicting all-cause mortality in acute decompensation patients with liver cirrhosis **Corresponding author**
5. Action to Address Elevated Lipoprotein(a): Findings from a Pilot Study of Physicians Participating in the Vietnam Atherosclerosis Society Congress **Co-Author**

## **FORTHCOMING**

1. **Dang HNN**, Thang VL. Aggressive LDL-C Control and Major Cardiovascular Events in Patients with Heart Failure with Preserved Ejection Fraction (HFpEF) **First Author**
2. **Dang HNN**. Thang VL. Malnutrition and Major Cardiovascular Events in Patients with Heart Failure with Preserved Ejection Fraction (HFpEF). **First Author**
3. **Dang HNN**. Thang VL. The Role of Heart Rate in Predicting Major Cardiovascular Events in Patients with Heart Failure with Preserved Ejection Fraction (HFpEF). **First Author**
4. **Dang HNN**. Thang VL. The Role of Sodium-Glucose Cotransporter-2 (SGLT2) Inhibitors in Patients with Atrial Fibrillation. **First Author**
5. **Dang HNN**. Thang VL. Integrating Liver and Heart Health: Cardiovascular Risk Reduction in Patients with Metabolic-associated Steatotic Liver Disease (MASLD) **Co-Author**
6. **Dang HNN**. Thang VL. Continuous Positive Airway Pressure (CPAP) Therapy for Patients with Obstructive Sleep Apnea and Coronary Artery Disease **Co-Author**
7. Thang VL, **Dang HNN**, Pham NNN, Mai SNT, Bao TQ, Tien AH. Eosinophilic Myocarditis Due to Parasitic Infection: A Case-Based Brief Review **Co-Author**
8. Prognostic Value of the QRS-T Angle on Surface Electrocardiogram in Patients with ST-Segment Elevation Myocardial Infarction **First Author**
9. Layer-Specific Left Ventricular Myocardial Strain by Speckle Tracking Echocardiography in Patients with Chronic Coronary Artery Disease **First Author**
10. A comparative study on the role of AI-simulated patients versus standardized patients in preclinical education: a randomized controlled trial **First Author**

## **IV. Certifications**

## **Degrees Earned**

Doctor of Medicine (MD)

Master's Degree in Internal Medicine

Bachelor's Degree in English Language

Bachelor's Degree in Economics

## **Medical Education and Research Certifications**

Clinical Teaching and Learning Methods, Medical Pedagogy, Teaching Skills, Good Clinical Practice (GCP) certificate

## **Medical Certifications**

Electrocardiography, Holter ECG, Ambulatory Blood Pressure Monitoring, Echocardiography, Obstetric and Gynecological Ultrasound, Gastrointestinal Endoscopy

## **V. Conference and seminar papers**

<b>Central Vietnam Congress of Cardiology</b>	<b>2022</b>
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Complex Arrhythmia in an Ebstein Patient: A Case Report

<b>Imperial City Cardiology Conference</b>	<b>2023</b>
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Cardiac Magnetic Resonance: Current Status and Future Perspectives

<b>Vietnam Hypertension Conference</b>	<b>2023</b>
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Hypertension in Pregnant Women from an Internist's Perspective

<b>Vietnam Atherosclerosis Conference</b>	<b>2023</b>
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ApoB Levels and Coronary Artery Stenosis Severity

<b>Vietnam National Heart Association Conference</b>	<b>2023</b>
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Speckle tracking echocardiography in Diabetic Patients

<b>Vietnam Hypertension Conference</b>	<b>2024</b>
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Erectile Dysfunction and Cardiovascular Risk

**Vietnam Atherosclerosis Conference** 2024

Fatty Liver Disease and Cardiovascular Risk

**Vietnam National Heart Association Conference** 2024

SGLT2 Inhibitors and Cardiovascular Disease

**Vietnam Heart Failure Conference** 2024

Echocardiography and Heart Failure with Preserved Ejection Fraction

## VI. Awards

Young Researcher Award of the Vietnam Atherosclerosis Association 2023

Young Researcher Award of the Vietnam Atherosclerosis Association 2024

Young Researcher Award of the Vietnam Hypertension Association 2024

Supervised students who achieved First Prize in the Student Scientific Research Competition at Hue University of Medicine and Pharmacy 2025

## VII. Education

**Menzies Institute for Medical Research** From 2025

**Doctor of Philosophy**

Specialties: Cardiology and Oncology

**Hue University of Medicine and Pharmacy** 2021 – 2023

**Master of Science** (Internal medicine)

Dissertation: “Evaluating left atrial function changes by speckle tracking echocardiography in type 2 diabetes patients”

**Hue University of Medicine and Pharmacy** 2014 – 2020

**Medical Doctor**

## VIII. Work experience

Cardiovascular Center, Hue Central Hospital

2021 – Present

Cardiologist (Internal Cardiology)

## IX. Academic experience

Faculty of Medicine, Duy Tan University

2021 – Present

Lecturer (Department of Internal Medicine and Department of Preclinical Medicine)

Faculty of Medicine, Duy Tan University

2020 – 2021

Assistant Lecturer (Department of Internal Medicine and Department of Preclinical Medicine)

## X. Other professional experience

Member of the Vietnam National Heart Association

2021

## XI. Skills

Languages                      **English** (IELTS 7.0); **Vietnamese** (Native language)

IT Skills                        Microsoft Office (Word, Excel, Outlook, PowerPoint); Statistical (SPSS, R Studio, GraphPad Prism, MedCalc); Illustration Design (Photoshop, Illustrator)

Other skills                    Scientific writing; Research design; Data Analysis