

CURRICULUM VITAE

Aline Pedroso, PhD

Version Date: 4/8/2025

Contact Information:

Address 195 Church Street
Fl 6th
New Haven, CT 06510
Phone: 1 (203) 785-4114
Email: aline.pedroso@yale.edu

School: Yale School of Medicine

Education:

08/2009 - 09/2014 BSc, Federal University of Vales do Jequitinhonha e Mucuri, Pharmacy,
Diamantina, MG, Brazil
03/2017 - 02/2019 MS, Federal University of Sao Joao del Rei, Health Sciences, Divinópolis, MG, Brazil
03/2019 - 04/2024 PhD, Federal University of Sao Joao del Rei, Health Sciences, Divinópolis, MG,
Brazil

Career/Academic Appointments:

09/2022 - 08/2023 Postgraduate Associate, Internal Medicine, Cardiovascular Data Science (CarDS)
Lab, New Haven, CT
09/2022 - 03/2023 Postgraduate Fellow, Cardiology (Medicine), Yale School of Medicine, New Haven,
CT
09/2023 - 04/2024 Postgraduate Associate, Cardiology (Medicine), Yale School of Medicine, New
Haven, CT
09/2023 - 09/2024 Postdoctoral Research Associate, Internal Medicine, Cardiovascular Data Science
(CarDS) Lab, New Haven, CT
04/2024 - 09/2024 Postdoctoral Associate, Cardiology (Medicine), Yale School of Medicine, New
Haven, CT
10/2024 - 06/2028 Associate Research Scientist, Cardiology (Medicine), Yale School of Medicine, New
Haven, CT

Administrative Positions:

2024 - Present Lead, Scientific Operations, Cardiovascular Data Science (CarDS) Lab, Yale School
of Medicine, New Haven, CT

Professional Honors & Recognition:

International/National/Regional

2012	Award from the Science Without Borders Program, Brazilian Ministry of Education
2019	International travel grant to attend the 35th International Conference of Pharmacoepidemiology, International Society of Pharmacoepidemiology (ISPE)
2022	Research Scholarship from the PDSE-CAPEF, Brazilian Ministry of Science and Technology
2024	American Heart Association QCOR Travel Award, American Heart Association, Council of Quality of Care and Outcomes (QCOR)

Grants/Clinical Trials History:

Pending Clinical Trials

Agencies:	-
I.D.#:	2000038634
Title:	Deep learning enhanced detection of aortic stenosis The DETECT-AS-Diagnostic Study
P.I.:	Rohan Khera
Role:	Sub-Investigator
Percent effort:	N/A
Total costs:	-
Project period:	12/13/2024 - ongoing
Agencies:	National Institute on Aging (NIA)
I.D.#:	2000038730
Title:	Deep learning enhanced personalized monitoring of aortic stenosis - The DETECT-AS-Prognostic Study
P.I.:	Rohan Khera
Role:	Sub-Investigator
Percent effort:	N/A
Total costs:	-
Project period:	01/06/2025 - ongoing

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

International/National

1. "Large-scale evidence generation and evaluation across a network of databases for type 2 diabetes mellitus - LEGEND-T2DM". OHDSI Global Symposium 2024, New Brunswick, NJ, October 2024 - December 2024. (Oral Presentation)
2. "Building and Integrating Scalable Community Care Solutions with AI for Wearable Technology". American Medical Informatics Association (AMIA) Annual Symposium, San Francisco, CA, November 2024. (Oral Presentation)

3. "The Critical Evaluation of AI Innovation from an Epidemiological Lens". QCOR Pre-symposia: American Heart Association Scientific Sessions 2024, Chicago, IL, November 2024. (Oral Presentation)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. **Pedroso A** . Racial Disparities in Cardiovascular Disease Mortality: Mediation By Socioeconomic Factors And Statin Use (The ELSA-Brasil Study). American Heart Association Epi-Lifestyle Scientific Sessions, Boston, MA, March 2023. (Poster Presentation)
2. **Pedroso A** . Performance of Current Cardiovascular Risk Scores Among the Brazilian Population: Findings From the ELSA-Brasil Study. In: American Heart Association Scientific Sessions, Philadelphia, PA, November 2023. (Poster Presentation)
3. **Pedroso A** . Digital Registry for Cardiometabolic conditions – Diabetes Mellitus (DIRECT-DM): A Large, Pragmatic, Multisite, Diverse Longitudinal Registry of Type 2 Diabetes. American Heart Association Scientific Sessions, Chicago, IL, November 2024. (Oral Presentation)
4. **Pedroso A** . National Patterns of Remote Patient Monitoring Service Availability at US Hospitals and their Readmission Performance for Cardiovascular Conditions. American Heart Association Scientific Sessions, Chicago, IL, November 2024. (Oral Presentation)

Professional Service:

Journal Services

Reviewer

2022 - Present	Reviewer, Arquivos Brasileiros de Cardiologia (Brazilian Society of Cardiology's Journal)
2024 - Present	Reviewer, Journal of Racial and Ethnic Health Disparities
2024 - Present	Reviewer, Heart
2025 - Present	Reviewer, JAMA

Professional Organizations

American Heart Association

2023 - Present	Member, American Heart Association
----------------	------------------------------------

Bibliography:

Peer-Reviewed Original Research

1. Pedroso AF, Barreto SM, Telles RW, Machado LAC, Haueisen Sander Diniz MF, Duncan BB, Figueiredo RC. Uncovering the Relationship Between Statins and Muscle Problems in the ELSA-Brasil MSK Cohort. Cardiovasc Drugs Ther 2023 [PMID: 37261675](#) , DOI: 10.1007/s10557-023-07476-7.
2. Camargos A, Barreto S, Brant L, Ribeiro A, Dhingra L, Aminorroaya A, Bittencourt M, Figueiredo R, Khera R. Performance of contemporary cardiovascular risk stratification scores in Brazil: an

- evaluation in the ELSA-Brasil study. *Open Heart* 2024, 11: e002762. [PMID: 38862252](#) , [PMCID: PMC11168182](#) , [DOI: 10.1136/openhrt-2024-002762](#) .
3. Khera R, Aminorroaya A, Dhingra L, Thangaraj P, Pedroso Camargos A, Bu F, Ding X, Nishimura A, Anand T, Arshad F, Blacketer C, Chai Y, Chattopadhyay S, Cook M, Dorr D, Duarte-Salles T, DuVall S, Falconer T, French T, Hanchrow E, Kaur G, Lau W, Li J, Li K, Liu Y, Lu Y, Man K, Matheny M, Mathioudakis N, McLeggon J, McLemore M, Minty E, Morales D, Nagy P, Ostropolets A, Pistillo A, Phan T, Pratt N, Reyes C, Richter L, Ross J, Ruan E, Seager S, Simon K, Viernes B, Yang J, Yin C, You S, Zhou J, Ryan P, Schuemie M, Krumholz H, Hripcsak G, Suchard M. Comparative Effectiveness of Second-Line Antihyperglycemic Agents for Cardiovascular Outcomes A Multinational, Federated Analysis of LEGEND-T2DM. *Journal Of The American College Of Cardiology* 2024, 84: 904-917. [PMID: 39197980](#) , [DOI: 10.1016/j.jacc.2024.05.069](#) .
 4. Dhingra L, Aminorroaya A, Sangha V, Pedroso A, Asselbergs F, Brant L, Barreto S, Ribeiro A, Krumholz H, Oikonomou E, Khera R. Heart failure risk stratification using artificial intelligence applied to electrocardiogram images: a multinational study. *European Heart Journal* 2025, 46: 1044-1053. [PMID: 39804243](#) , [DOI: 10.1093/eurheartj/ehae914](#) .
 5. Khera R, Sawano M, Warner F, Coppi A, Pedroso A, Spatz E, Yu H, Gottlieb M, Saydah S, Stephens K, Rising K, Elmore J, Hill M, Idris A, Montoy J, O’Laughlin K, Weinstein R, Venkatesh A, Weinstein R, Gottlieb M, Santangelo M, Koo K, Derden A, Gottlieb M, Gatling K, Ahmed Z, Gomez C, Guzman D, Hassaballa M, Jerger R, Kaadan A, Venkatesh A, Spatz E, Kinsman J, Malicki C, Lin Z, Li S, Yu H, Mannan I, Yang Z, Liu M, Venkatesh A, Spatz E, Ulrich A, Kinsman J, Malicki C, Dorney J, Pierce S, Puente X, Salah W, Nichol G, Stephens K, Anderson J, Schiffgens M, Morse D, Adams K, Stober T, Maat Z, O’Laughlin K, Gentile N, Geyer R, Willis M, Zhang Z, Chang G, Lyon V, Klabbers R, Ruiz L, Malone K, Park J, Rising K, Kean E, Chang A, Renzi N, Watts P, Kelly M, Schaeffer K, Grau D, Cheng D, Shutty C, Charlton A, Shughart L, Shughart H, Amadio G, Miao J, Hannikainen P, Elmore J, Wisk L, L’Hommedieu M, Chandler C, Eguchi M, Roldan K, Moreno R, Rodriguez R, Wang R, Montoy J, Kemball R, Chan V, Chavez C, Wong A, Arreguin M, Hill M, Site R, Kane A, Nikonowicz P, Sapp S, Idris A, McDonald S, Gallegos D, Martin K, Saydah S, Plumb I, Hall A, Briggs-Hagen M. Assessment of health conditions from patient electronic health record portals vs self-reported questionnaires: an analysis of the INSPIRE study. *Journal Of The American Medical Informatics Association* 2025, ocaf027. [PMID: 40036551](#) , [DOI: 10.1093/jamia/ocaf027](#) .
 6. Dhingra LS, Aminorroaya A, Sangha V, Pedroso AF, Shankar SV, Coppi A, Foppa M, Brant LCC, Barreto SM, Ribeiro ALP, Krumholz HM, Oikonomou EK, Khera R. Ensemble Deep Learning Algorithm for Structural Heart Disease Screening Using Electrocardiographic Images: PRESENT SHD. *J Am Coll Cardiol* 2025, 85: 1302-1313. [PMID: 40139886](#) , [DOI: 10.1016/j.jacc.2025.01.030](#) .
 7. Vasisht Shankar S, Dhingra LS, Aminorroaya A, Adejumo P, Nadkarni GN, Xu H, Brandt C, Oikonomou EK, Pedroso AF, Khera R. Automated transformation of unstructured cardiovascular diagnostic reports into structured datasets using sequentially deployed large language models. *Eur Heart J Digit Health*. 2025;ztaf030.

Peer-Reviewed Original Research In Press

1. Dhingra LS, Aminorroaya A, Sangha V, Camargos AP, Asselbergs FW, Brant LC, Barreto SM, Ribeiro ALP, Krumholz HM, Oikonomou EK, Khera R. Scalable Risk Stratification for Heart Failure Using Artificial Intelligence applied to 12-lead Electrocardiographic Images: A Multinational Study. *MedRxiv* 2024 [PMID: 38633808](#) , [DOI: 10.1101/2024.04.02.24305232](#).

2. Dhingra LS, Aminorroaya A, Camargos AP, Khunte A, Sangha V, McIntyre D, Chow CK, Asselbergs FW, Brant LC, Barreto SM, Ribeiro ALP, Krumholz HM, Oikonomou EK, Khera R. Using Artificial Intelligence to Predict Heart Failure Risk from Single-lead Electrocardiographic Signals: A Multinational Assessment. MedRxiv 2024 [PMID: 38854022](#) , DOI: 10.1101/2024.05.27.24307952.
3. Aminorroaya A, Dhingra LS, Camargos AP, Shankar SV, Khunte A, Sangha V, Sen S, McNamara RL, Haynes N, Oikonomou EK, Khera R. Study Protocol for the Artificial Intelligence-Driven Evaluation of Structural Heart Diseases Using Wearable Electrocardiogram (ID-SHD). MedRxiv 2024 [PMID: 38562867](#) , DOI: 10.1101/2024.03.18.24304477.
4. Dhingra LS, Aminorroaya A, Sangha V, Camargos AP, Shankar SV, Coppi A, Foppa M, Brant LC, Barreto SM, Ribeiro ALP, Krumholz HM, Oikonomou EK, Khera R. An Ensemble Deep Learning Algorithm for Structural Heart Disease Screening Using Electrocardiographic Images: PRESENT SHD. MedRxiv 2024 [PMID: 39417095](#) , DOI: 10.1101/2024.10.06.24314939.
5. Shankar SV, Dhingra LS, Aminorroaya A, Adejumo P, Nadkarni GN, Xu H, Brandt C, Oikonomou EK, Pedroso AF, Khera R. Automated Transformation of Unstructured Cardiovascular Diagnostic Reports into Structured Datasets Using Sequentially Deployed Large Language Models. MedRxiv 2024 [PMID: 39417094](#) , DOI: 10.1101/2024.10.08.24315035.
6. Aminorroaya A, Dhingra LS, Pedroso Camargos A, Vasisht Shankar S, Coppi A, Khunte A, Foppa M, Brant LC, Barreto SM, Ribeiro ALP, Krumholz HM, Oikonomou EK, Khera R. Development and Multinational Validation of an Ensemble Deep Learning Algorithm for Detecting and Predicting Structural Heart Disease Using Noisy Single-lead Electrocardiograms. MedRxiv 2024 [PMID: 39417103](#) , DOI: 10.1101/2024.10.07.24314974.

Peer-Reviewed Reviews, Practice Guidelines, Standards, and Consensus Statements

1. Aminorroaya A, Biswas D, Pedroso AF, Khera R. Harnessing artificial intelligence for innovation in interventional cardiovascular care. J Soc Cardiovasc Angiogr Interv. 2025;4:102562.