



UMCCTS-UMMH Health Systems KL2 Program Scholar Daniel Amante, PhD, MPH

"The KL2 program has provided me with many great opportunities by enabling me to complete specialized training in innovative areas such as clinical informatics and behavioral economics, strengthen collaborations with clinical partners, and conduct critical formative work on an intervention designed to support patients with the self-management of their diabetes."

Dr. Daniel Amante, Assistant Professor, Division of Health Informatics and Implementation Science, Department of Population and Quantitative Health Sciences at UMass Chan, was supported by UMass Memorial Health as a KL2 Health Systems Scholar for three years, through June, 2022. Dr. Amante's research focuses on development and implementation of technology-based behavioral Interventions optimized to support patient self-management of disease. Over the course of his career development award, Dr. Amante's research focused on developing and subsequently testing the acceptability and usability of [DM-BOOST](#), an intervention designed to improve implementation of diabetes self-management training. While conducting the randomized feasibility pilot study, he exceeded his target recruitment goal of n=60. Delivery of the intervention and data collection were completed in November 2022. During the award period, Dr. Amante published seven manuscripts; additional manuscripts are in preparation.

As an outcome of his work, Dr. Amante was awarded an NIH K01 award from the NIDDK in July 2022 (K01DK131318-01A1 7/1/22 – 4/30/25). Growing from his DM-BOOST work, the new project is [DM-BOOST para Latinx: a Diabetes Mellitus program using Behavioral economics to Optimize Outreach and Self-management support with Technology for Latinx patients](#). The specialized training and expert mentorship provided in his K01 career development award will guide the specific aims to culturally adapt, usability test and conduct a feasibility evaluation of the 'DM-BOOST para Latinx' intervention, designed to increase patient engagement and experience with diabetes self-management training among Spanish-speaking Latinx patients. The total amount of the award is \$492,432.

KL2 related Authorship:

- Amante DJ**, Harlan DM, Lemon SC, McManus DD, Olaitan OO, Pagoto SL, Gerber BS, Thompson MJ. [Evaluation of a Diabetes Remote Monitoring Program Facilitated by Connected Glucose Meters for Patients with Poorly Controlled Type 2 Diabetes: A Randomized Crossover Trial](#). JMIR Diabetes. 2021 Mar 11;6(1).
- Dabbagh Z, McKee MD, Pirraglia PA, Clements KM, Liu F, **Amante DJ**, Shukla P, Gerber BS. [The Expanding Use of Continuous Glucose Monitoring in Type 2 Diabetes](#). Diabetes Technol Ther. 2022 Jul;24(7):510-515. doi: 10.1089/dia.2021.0536. Epub 2022 Jun 9. PubMed PMID: 35231190.
- Houston TK, Chen J, **Amante DJ**, Blok AC, Nagawa CS, Wijesundara JG, Kamberi A, Allison JJ, Person SD, Flahive J, Morley J, Conigliaro J, Mattocks KM, Garber L, Sadasivam RS. [Effect of Technology-Assisted Brief Abstinence Game on Long-term Smoking Cessation in Individuals Not Yet Ready to Quit: A Randomized Clinical Trial](#). JAMA Intern Med. 2022 Mar 1;182(3):303-312. doi: 10.1001/jamainternmed.2021.7866. PubMed PMID: 35072714; PubMed Central PMCID: PMC8787683.
- Larkin, C., Wijesundara, J., Nguyen, H.L., Ha, D.A., Vuong, A., Nguyen, C.K., **Amante, D.**, Ngo, C.Q., Phan, P.T., Le Pham, Q.T. and Nguyen, B.N., 2021. [mHealth Messaging to Motivate Quitline Use and Quitting: Protocol for a Community-Based Randomized Controlled Trial in Rural Vietnam](#). JMIR Research Protocols, 10(10), p.e30947.
- Martinez RN, Smith BM, Etingen B, Houston TK, Shimada SL, **Amante DJ**, Patterson A, Richardson LM, Vandenberg G, Cutrona SL, Quintiliani LM, Frisbee KL, Hogan TP. [Health-Related Goal Setting and Achievement Among Veterans with High Technology Adoption](#). J Gen Intern Med. 2021 May 7
- Wright J, Volkman J, Leveille S, **Amante D.** [Predictors of Online Patient Portal Use among a Diverse Sample of Emerging Adults: A Cross-Sectional Survey](#). JMIR Formative. 2022 Feb 15;6(2):e33356. PMCID: 8889472.
- Zaidi M, **Amante DJ**, Anderson E, Ito Fukunaga M, Faro JM, Frisard C, Sadasivam RS, Lemon SC. [Association Between Patient Portal Use and Perceived Patient-Centered Communication Among Adults With Cancer: Cross-sectional Survey Study](#). JMIR Cancer. 2022 Aug 9;8(3):e34745. doi: 10.2196/34745. PubMed PMID: 35943789; PubMed Central PMCID: PMC9399875.

Dr. Amante's primary mentor, Ben Gerber, MD, had this to say:

"Dan is an incredibly valued member of the UMass Chan Medical School's faculty. The successful award of his NIH NIDDK K01 proposal is a substantial achievement. In January 2023, Dan switched to a tenure track assistant professor position. Dan has maintained a high level of collaborative, funded research in addition to his own studies. This has led to a number of co-authored publications. Dan's work in establishing the implementation science group has been terrific. Overall, his contributions to the division, department, and UMMHC are incredibly valued and appreciated!"



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