

## *Curriculum vitae*

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### **Education**

Year	Degrees (Honors)	Field of Study	Institution
2008-2012	B.A. (Honors)	Computer Science	Bucknell University, Lewisburg, PA
2012-2014	M.S. (Honors)	Bioinformatics	Indiana University, Indianapolis, IN
2014-2018	M.D.	Medicine	Indiana University, Indianapolis, IN

### **Postdoctoral Training**

Year	Title	Specialty/Discipline	Institution
2018-2021	Intern/Resident	Internal Medicine	UT Southwestern, Dallas, TX
2021-Current	Fellow	Cardiology	Texas Heart Institute, Houston, TX
Incoming	Fellow	Cardiac Electrophysiology	Texas Heart Institute, Houston, TX

### **Current Licensure and Certification**

Year	Licensure/Certification
<i>Licensure</i>	
2020-present	Texas
<i>Medical Certification</i>	
2022-present	Board Certification – Internal Medicine
2023-present	Board Certification – American Society of Echocardiography
<i>Other Certification</i>	
2022	Epic Systems (EHR) – Cogito Fundamentals
2023	Epic Systems (EHR) – Caboodle Data Model

2023	Epic Systems (EHR) – Notecraft for Physician Builders
2023	Epic Systems (EHR) – Physician Builder: Analytics
2023	Epic Systems (EHR) – Extension-Based Cognitive Computing
2023	Epic Systems (EHR) – Registries-Based Cognitive Computing
2023	Amazon Web Services (AWS) – Cloud Practitioner
2024	Databricks – Lakehouse Fundamentals

### **Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
2011, 2012	Mid-Major All-American, swimming	NCAA
2012	Olympic Trials Qualifier, swimming 200M freestyle	USA Swimming
2012	Robert A. Latour Service Award	Bucknell University
2012	Harold W. Miller Prize	Bucknell University
2015	Best Oral Abstract (3 <sup>rd</sup> place)	Academic Medicine Research Program, Indiana University School of Medicine
2016	Best Oral Abstract (3 <sup>rd</sup> Place)	IU Simon Cancer Center Research Day
2017	Gold Humanism Honor Society	Indiana University School of Medicine
2018	Dean’s Award	Indiana University School of Medicine
2019	Travel Grant Award	Artificial Intelligence in Cardiology, Mayo Clinic
2019	Best Oral Abstract (1 <sup>st</sup> place)	UTSW-THR Cardiovascular Symposium
2019, 2020	Best Oral Abstract (1 <sup>st</sup> place)	Donald W. Seldin Symposium, UT Southwestern Medical Center
2020	Elizabeth Barrett-Connor Early Career Research Award finalist	American Heart Association
2020	Big Data Analysis Challenge in Heart Failure, Award Winner	National Institute of Health
2021	Most Published Resident	Dept. of Internal Medicine, UT Southwestern Medical Center
2021	Lifestyle and Cardiometabolic Health Early Career Research Award finalist	American Heart Association
2021	Heart Failure Challenge, Grand Prize Winner	American Heart Association
2022	Clinical Cardiology Early Career Research Award Winner	American Heart Association
2023	Research Challenge – Finalist	American Medical Association
2024	Abstract Award – Finalist	Heart Rhythm Society

### **Committee Service**

Year	Name of Committee	Institution/Organization
<u>National</u>		
2022-2023	Cardiology Steering Committee	Epic EHR Systems
<u>Regional</u>		
2023-Current	AI in Health Conference	Rice University
<u>Institutional</u>		
2014-2016	Vice President, Medical Student Council	Indiana University School of Medicine
2015-2017	LCME Continuous Quality Improvement Team	Indiana University School of Medicine
2016-2017	President, Medical Student Council	Indiana University School of Medicine
2017-2018	Admissions Committee	Indiana University School of Medicine
2022-Current	THI Research Database (THIRDbase)	Texas Heart Institute
2023-Current	CV Quality and Safety Subcommittee	Baylor-St. Luke's Medical Center

### **Professional Societies**

Dates	Society
2018-Current	American Heart Association
2018-Current	American College of Cardiology
2021-Current	Heart Rhythm Society

### **Editorial Activities**

Journal Name
<u>Ad Hoc Reviewer</u>
European Heart Journal
Cardiovascular Research
European Journal of Preventative Cardiology
Journal of the American College of Cardiology (JACC)
JACC: Cardiovascular Imaging
JACC: Heart Failure
Circulation
BMJ Open Diabetes Research & Care
Diabetes, Obesity, and Metabolism

Journal of Cardiac Failure
Scientific Reports
JAMA: Cardiology
Cardiovascular Diabetology
JAMA: Network Open

**Grant Support**

Present	<i>Grantor:</i> American Heart Association
	<i>Title of Project:</i> Machine Learning-based Models with SDOH to Improve Incident AF Prediction
	<i>Role:</i> Project Lead
	<i>Funding Dates:</i> 2023-2024
	<i>Total Amount:</i> \$50,000
	<i>Grantor:</i> The Cullen Trust for Healthcare
	<i>Title of Project:</i> The Texas Heart Institute Relational Database and Warehouse for Cardiovascular Disease (THIRDbase)
	<i>Role:</i> Co-PI
	<i>Funding Dates:</i> 2023-2025
	<i>Total Amount:</i> \$250,000

**Clinical Trials/Studies Activities**

Dates	Trial
<u>Sub-Investigator</u>	
2021-2023	Electronic Alerts for Heart Failure Prevention in Diabetes (NCT04791826)
2023-2024	Furoscix in Heart Failure Patients with Diuretic Resistance (NCT05528588)

**Intellectual Property/Trademarks**

Dates	Property/Name
<u>Trademarks</u>	
2022	WATCH-DM

## **Bibliography**

### **Citation Metrics (per [Google Scholar](#))**

<b>Total No. of Publications</b>	63
<b>No. of Citations</b>	1544
<b>H-index</b>	20

### **Peer-Reviewed Publications**

#### Original Research Articles

NCBI Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/1XMhwV-kmYiQs/bibliography/public/>

\* Indicates co-first author

1.	Liu X, <b>Segar MW</b> , Li SC, Kim S. Spectral probabilities of top-down tandem mass spectra. <i>BMC Genomics</i> , 15, S9. (2012)
2.	Cardenas H, Vieth E, Lee J, <b>Segar MW</b> , Liu Y, Kenneth P, Matei D. TGF- $\beta$ induces global changes in DNA methylation during the epithelial-to-mesenchymal transition in ovarian cancer cells. <i>Epigenetics</i> , (December), 37–41. (2014)
3.	Nephew KP, Wang Y, Cardenas H, Fang F, Condello S, Taverna P, <b>Segar MW</b> , Liu Y, Matei D. Epigenetic Targeting of Ovarian Cancer Stem Cells. <i>Cancer Research</i> , 74(14), 4922–4936. (2014)
4.	<b>Segar MW</b> , Sakofsky C J, Malkova A, Liu Y. MMBIRFinder: a tool to detect microhomology-mediated break-induced replication. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 12(4), 799-806. (2014)
5.	Burgess K, Philips S, Benson E, Desta Z, Gaedigk A, Gaedigk R, <b>Segar MW</b> , Liu Y, Skaar T. Age-Related Changes in MicroRNA Expression and Pharmacogenes in Human Liver. <i>Clinical Pharmacology &amp; Therapeutics</i> , 98(2), 205–215. (2015)
6.	Benson EA, Eadon MT, Desta Z, Liu Y, Lin H, Burgess K, <b>Segar MW</b> , Gaedigk A, Skaar TC. Rifampin Regulation of Drug Transporters Gene Expression and the Association of MicroRNAs in Human Hepatocytes. <i>Frontiers in Pharmacology</i> , 7, 1-13. (2016)
7.	De Leon M, Cardenas H, Vieth E, Emerson R, <b>Segar MW</b> , Liu Y, Nephew K, Matei D. Transmembrane protein 88 (TMEM88) promoter hypomethylation is associated with cisplatin resistance in ovarian cancer. <i>Gynecologic Oncology</i> , 137, 173. (2016)
8.	<b>Segar MW</b> , Patel KV, Berry JD, Grodin JL, Pandey A. Generalizability and Implication of the H <sub>2</sub> FPEF Score in a Cohort of Patients with Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 139, 1851-1853. (2019)
9.	<b>Segar MW</b> , Vaduganathan M, Patel KV, McGuire DK, Butler J, Fonarow GC, Basit M, Kannan V, Grodin JL, Everett B, Willett D, Berry J, Pandey A. Machine Learning to Predict the Risk of Incident Heart Failure Hospitalization Among Patients With Diabetes: The WATCH-DM Risk Score. <i>Diabetes Care</i> , 42, 2298-2306. (2019)

10.	<b>Segar MW</b> , Patel KV, Ayers C, Basit M, Tang WH, Willet D, Berry J, Pandey A. Phenomapping of patients with heart failure with preserved ejection fraction using machine learning-based unsupervised cluster analysis. <i>European Journal of Heart Failure</i> , 22, 148-158. (2020)
11.	<b>Segar MW</b> , Patel KV, Vaduganathan M, Caughey MG, Butler J, Fonarow GC, Grodin JL, McGuire DK, Pandey A. Association of Long-Term Change and Variability in Glycemia with Risk of Incident Heart Failure among Patients with Type 2 Diabetes Mellitus – A Secondary Analysis of the ACCORD Trial. <i>Diabetes Care</i> , 43, 1920-1928. (2020)
12.	<b>Segar MW</b> , Patel RB, Patel KV, Fudim M, DeVore AD, Martens P, Hedayati S, Grodin JL, Tang WH, Pandey A. Predictors and Prognostic Implications of Visit-to-Visit Variability in Kidney Function and Serum Electrolytes among Patients with Heart Failure with Preserved Ejection Fraction. <i>JAMA Cardiology</i> (2020)
13.	<b>Segar MW*</b> , Rao S*, Bress A, Arora P, Vongpatanasin W, Agusala V, Essien UR, Correa A, Morris AA, de Lemos JA, Pandey A. Association of Genetic West African Ancestry, Blood Pressure Response to Therapy, and Cardiovascular Risk Among Self-Reported Black Individuals in the Systolic Blood Pressure Reduction Intervention Trial (SPRINT). <i>JAMA Cardiology</i> (2020)
14.	Sumarsano A, Lalani H, <b>Segar MW</b> , Rao S, Vaduganathan M, Wadhwa RK, Das SR, Navar AM, Fonarow GC, Pandey A. Association of Medicaid Expansion with Rates of Utilization of Cardiovascular Therapies Among Medicaid Beneficiaries Between 2011 and 2018. <i>Circulation: Cardiovascular Quality and Outcomes</i> (2020)
15.	<b>Segar MW</b> , Rao S, Navar AM, Michos ED, Lewis A, Correa A, Sims M, Khera A, Hughes AE, Pandey A. County-level phenomapping to identify disparities in cardiovascular outcomes: An unsupervised clustering analysis. <i>American Journal of Preventative Cardiology</i> , (2020)
16.	Sumarsano A, <b>Segar MW</b> , Xie L, Atem F, Messiah SE, Francis JKR, Keshvani N. Medicaid expansion and provision of prescription contraception to Medicaid beneficiaries. <i>Contraception</i> (2020)
17.	Hendren NH, <b>Segar MW</b> , Zhong L, Drazner MH, Young JB, Tang WH, Pandey A, Grodin JL. Phenomapping a Novel Classification System for Patients with Destination LVADs: An Unsupervised Machine Learning Cluster Analysis. <i>Journal of Cardiac Failure</i> (2020)
18.	Mody P, Pandey A, Slutsky AS, <b>Segar MW</b> , Kiss A, Dorian P, Parsons J, Scales DC, Rac VE, et al. Gender Based Differences in Outcomes among Resuscitated Patients with Out-of-Hospital Cardiac Arrest, <i>Circulation</i> (2020)
19.	<b>Segar MW</b> , Patel KV, Vaduganathan M, Caughey MC, Jaeger BC, Basit M, Willett D, Butler J, Sengupta P, Wang TJ, McGuire DK, Pandey A. Development and Validation of Optimal Phenomapping Methods to Estimate Long-term Atherosclerotic Cardiovascular Disease Risk in Patients with Type 2 Diabetes, <i>Diabetologia</i> (2021)
20.	<b>Segar MW</b> , Jaeger BC, Patel KV, Nambi V, Ndumele CE, Correa A, Butler J, Chandra A, Ayers C, Rao S, et al. Development and Validation of Machine Learning-Based Race-Specific Models to Predict 10-Year Risk of Heart Failure: A Multi-Cohort Analysis, <i>Circulation</i> (2021)
21.	Pandey A, Kagiya N, Yanamala N, <b>Segar MW</b> , Cho JS, Tokodi M, Sengupta P. Deep-Learning Models of Diastolic Dysfunction: Development and Validation in NHLBI-Funded Heart Failure Clinical Trials, <i>JACC: Cardiovascular Imaging</i> (2021)

22.	<b>Segar MW</b> , Sing S, Goyal P, Hummel SL, Maurer MS, Forman DE, Butler J, Pandey A. Prefrailty, impairment in physical function, and risk of incident heart failure among older adults, <i>Journal of the American Geriatrics Society</i> (2021)
23.	<b>Segar MW</b> , Khan MS, Patel KV, Butler J, Tang WHW, Vaduganathan M, Lam, CSP, Verma S, McGuire DK, Pandey A. Prevalence and Prognostic Implications of Diabetes with Cardiomyopathy in Community-Dwelling Adults, <i>JACC</i> (2021)
24.	<b>Segar MW*</b> , Coniglio AC*, Loungani RS, Savla JJ, Grodin JL, Fox ER, Garg S, De Lemons JA, Berry JD, Drazner MH, Shah S, Hall ME, Khan SS, Mentz RJ, Pandey A. Transthyretin V142I Genetic Variant and Cardiac Remodeling, Injury, and Heart Failure Risk in Black Adults, <i>JACC: Heart Failure</i> (2021)
25.	<b>Segar MW*</b> , Patel KV*, Lavie CJ, Kondamudi N, Neeland IJ, Almondoz JP, Martin CK, Carbone S, Butler J, Powell-Wiley TM, Pandey A. Diabetes Status Modifies the Association Between Different Measures of Obesity and Heart Failure Risk Among Older Adults: A Pooled Analysis of Community-Based NHLBI Cohorts. <i>Circulation</i> (2021)
26.	<b>Segar MW</b> , Khan MS, Patel KV, Vaduganathan M, Kannan V, Willett D, Peterson E, Tang WH, Butler J, Everett BM, Fonarow GC, Wang TJ, McGuire DK, Pandey A. Incorporation of Natriuretic Peptides with Clinical Risk-scores to Predict Heart Failure Among Individuals with Dysglycemia. <i>European Journal of Heart Failure</i> (2021)
27.	Hendren NS, <b>Segar MW</b> , Zhong L, Michelis KC, Drazer MC, Young JB, Tang WH, Pandey A, Grodin JL. Phenomapping a Novel Classification System for Patients with Destination Therapy Left Ventricular Assist Devices. <i>The American Journal of Cardiology</i> (2021)
28.	Rao S, Hughes A, <b>Segar MW</b> , Wilson B, Ayers C, Das S, Halm EA, Pandey A. Longitudinal Trajectories and Factors Associated with US County-Level Cardiovascular Mortality, 1980 to 2014. <i>JAMA Network Open</i> (2021).
29.	<b>Segar MW*</b> , Khan MS*, Usman MS, Singh S, Greene SJ, Fonarow GC, Anker SD, Felker GM, Januzzi JL, Butler J, Pandey A. Frailty, Guideline-Directed Medical Therapy, and Outcomes in Heart Failure with Reduced Ejection Fraction: The GUIDE-IT Trial. <i>JACC: Heart Failure</i> (2022).
30.	Pandey A, <b>Segar MW</b> , Singh S, Reeves G, O'Connor C, Pina I, Whellan D, Karus W, Mentz R, Kitzman D. Frailty Status Modifies the Efficacy of Exercise Training Among Patients with Chronic Heart Failure and Reduced Ejection Fraction: An Analysis from the HF-ACTION Trial. <i>Circulation</i> (2022).
31.	<b>Segar MW</b> , Kolkailah AA, Frederich R, Pong A, Cannon CP, Cosentino F, Dagogo-Jack S, McGuire DK, Pratley RE, Liu CC, Maldonado M, Liu J, Carter NB, Pandey A, Cherney DZI. Mediators of ertugliflozin effects on heart failure and kidney outcomes among patients with type 2 diabetes. <i>Diabetes, Obesity, and Metabolism</i> (2022).
32.	<b>Segar MW</b> , Patel KV, Hellkamp AS, Vaduganathan M, Lokhnygina Y, Green JB, Wan, S, Kolkailah, AA, Holman RR, Peterson ED, Kanna V, Willett D, McGuire DK, Pandey A. Validation of the WATCH-DM and TRS-HF <sub>DM</sub> Risk Scores to Predict The Risk of Incident Hospitalization for Heart Failure Among Adults with Type 2 Diabetes: A Multi-cohort Analysis. <i>JAHA</i> (2022)
33.	<b>Segar MW</b> , Hall JL, Jhund PS, Powell-Wiley TM, Morris AA, Kao D, Fonarow GC, Hernandez R, Ibrahim NE, Rutan C, Navar AM, Stevens LS, Pandey A. Using Machine Learning-based Models with Social Determinants of Health to Predict In-Hospital Mortality in Heart Failure: The American Heart Association Get with The Guidelines Registry. <i>JAMA Cardiology</i> (2022)

34.	<b>Segar MW*</b> , Shah S, Kondamudi N, Ayers C, Chandra A, Matulevicius S, Agusala K, Peshock R, Abbara S, Michos ED, Drazner EH, Lima J, Longstreth WT, Pandey A. Supranormal Left Ventricular Ejection Fraction, Stroke Volume, and Cardiovascular Risk: Findings From Population-Based Cohort Studies. <i>JACC: Heart Failure</i> (2022)
35.	Stevens SR, <b>Segar MW</b> , Pandey A, Lokhnygina Y, Green JB, McGuire DK, Standl E, Peterson ED, Holman RR. Development and validation of a model to predict cardiovascular death, nonfatal myocardial infarction, or nonfatal stroke in patients with type 2 diabetes mellitus and established atherosclerotic cardiovascular disease. <i>Cardiovascular Diabetology</i> (2022).
36.	Patel KV, Khan MS, <b>Segar MW</b> , Bahnson JL, Garcia KR, Clark JM, Balasubramanyam A, Bertoni AG, Vaduganathan M, Farkouh ME, Januzzi JL, Verma S, Espeland M, Pandey A. Optimal Cardiometabolic Health and Risk of Heart Failure in Type 2 Diabetes: An Analysis from the Look AHEAD Trial. <i>European Journal of Heart Failure</i> (2022).
37.	<b>Segar MW</b> , Keshvani N, Rao S, Fonarow G, Das SR, Pandey A. Race, Social Determinants of Health, and Length of Stay among Hospitalized Patients with Heart Failure: An Analysis from the Get With The Guidelines – Heart Failure Registry. <i>Circulation: Heart Failure</i> (2022).
38.	Khan MS, Singh S, <b>Segar MW</b> , Usman MS, Keshvani N, Ambrosy AP, Fiuzat M, Van Spall H, Fonarow GC, Zannad F, Felker GM, Januzzi JL, O’Connor C, Butler J, Pandey A. Polypharmacy and Optimization of Guideline-Directed Medical Therapy in Heart Failure: The GUIDE-IT Trial. <i>JACC: Heart Failure</i> (2023).
39.	Raygor V, Ayers C, <b>Segar MW</b> , Agusala K, Khera A, Pandey A, Joshi JP. Impact of Family History of Premature Coronary Artery Disease on Non-Invasive Testing in Stable Chest Pain: a PROMISE analysis. <i>JAHA</i> (2023)
40.	<b>Segar MW*</b> , Khan MS, Usman MS, Patel KV, Van Spall HG, DeVore A, Vaduganathan M, Lam CSP, Zannad F, Verma S, Butler J, Tang W, Pandey A. Effect of Canagliflozin on Heart Failure Hospitalization in Diabetes According to Baseline Heart Failure Risk. <i>JACC: Heart Failure</i> (2023).
41.	<b>Segar MW</b> , Zhang A, Paisley RD, Badjatiya A, Lambeth KD, Mullins K, Razavi M, Molina-Razavi JE, Rasekh A, Saeed M. Risk Stratification in Patients Undergoing Percutaneous Left Atrial Appendage Occlusion. <i>American Heart Journal</i> (2023).
42.	Balachandran IC, <b>Segar MW</b> , Diakos NA, Rogers JG. Conditional Survival after HeartMate3 Implantation: An Analysis of the MOMENTUM3 Trial. <i>Journal of Cardiac Failure</i> (2023).
43.	Jaeger BC, Welden S, Lenoir K, Speiser JL, <b>Segar MW</b> , Pandey A, Pajewski NM. Accelerated and Interpretable Oblique Random Survival Forests. <i>Journal of Computational and Graphical Statistics</i> (2023)
44.	<b>Segar MW</b> , Keshvani N, Singh S, Patel L, Parsa S, Betts T, Reeves G, Mentz RJ, Forman DE, Razavi M, Saeed M, Kitzman DW, Pandey A. Frailty Status Modifies the Efficacy of Primary Prevention ICD Therapy Among Patients with Heart Failure. <i>JACC: Heart Failure</i> (2023).
45.	Gregg LP, Worsley ML, Ramsey DJ, <b>Segar MW</b> , Matheny ME, Virani SS, Navaneethan S. Racial and Ethnic Disparities and Facility-Level Variation in GLP-1 RA Prescription among US Veterans with CKD. <i>Journal of the American Society of Nephrology</i> (2023).
46.	<b>Segar MW</b> , Marzec A, Razavi M, Mullins K, Molina-Razavi JE, Shafii AE, Cozart JR, Moon MR, Rasekh A, Saeed M. Incidence, Risk Score Performance, and In-Hospital Outcomes



	of Post-Operative Atrial Fibrillation after Cardiac Surgery. <i>The Journal of the Texas Heart Institute</i> (2023)
47.	Nagori A, <b>Segar MW</b> , Keshvani N, Patel L, Patel KV, Chandra A, Willett D, Pandey A. Prevalence and Predictors of Subclinical Cardiomyopathy in Patients With Type 2 Diabetes in a Health System. <i>Journal of Diabetes Science and Technology</i> (2023).
48.	<b>Segar MW*</b> , Patel KV*, Klonoff D, Khan MS, Usman MS, Lam CS, Berma S, DeFillipis AP, Nasir K, Bakker SJL, Westenbrink BD, Dullaart RPF, Butler J, Vaduganathan M, Pandey A. Optimal Screening for Predicting and Preventing the Risk of Heart Failure among Adults with Diabetes without Cardiovascular Disease: A Pooled Cohort Analysis. <i>Circulation</i> (2023)
49.	<b>Segar MW</b> , Khan MS, Patel KV, Butler J, Ravichandran AK, Walsh MN, Willett D, Fonarow GC, Drazner MH, Mentz RJ, Hallf J, Farr MA, Hedayati S, Yancy C, Allen L, Tang WH, Pandey A. A Validated Phenomapping Tool and Clinical Score to Identify Low Diuretic Efficiency in Acute Decompensated Heart Failure: A Multi-Cohort Analysis. <i>JACC: Heart Failure</i> (2023)
50.	Saha S, Keshvani N, <b>Segar MW</b> , Patel KV, Fudim M, Rohatgi A, Ayers A, VanWagner LB, Rao VN, Drazner MH, Garg S, Singal AG, Rich NE, Browning JD, Neeland IJ, Pandey A. Association of Hepatic Triglyceride Content With Cardiac Structure and Function Among Community-Dwelling Adults. <i>JACC: Heart Failure</i> (2024)
51.	Subramanian V, Keshvani N, <b>Segar MW</b> , Kondamudi NJ, Chandra A, Maddineni B, Matulevicious SA, Michos ED, Lima JAC, Berry JD, Pandey A. Association of Global Longitudinal Strain by Feature Tracking MRI with Adverse Outcomes among Community-Dwelling Adults without Cardiovascular Disease. <i>European Journal of Heart Failure</i> (2024)
52.	Patel L, <b>Segar MW</b> , Keshvani N, Subramanian V, Pandey A, Chandra A. Association of Beta Blocker Use with Exercise Capacity in Participants with Heart Failure and Preserved Ejection Fraction: A Post-Hoc Analysis of the RELAX Trial. <i>American Journal of Cardiology</i> (2024)
53.	Chunawala ZS, Segar MW, Keshvani N, Patel KV, Raygor V, Chandra A, Pandey A. Association of Diabetes-Specific Heart Failure Risk Score with Presense of Subclinical Cardiomyopathy in Individuals with Diabetes – A Prospective Study. <i>European Journal of Heart Failure</i> (2024)
54.	Pandey, A. Patel KV, <b>Segar MW</b> , Ayers C, Linge J, Leinhard OD, Anker SD, Butler J, Verma S, Joshi PH, Neeland IJ. Effect of liraglutide on thigh muscle fat and muscle composition in adults with overweight or obesity: results from a randomized trial. <i>Journal of Cachexia, Sarcopenia and Muscle</i> (2024)
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#### Reviews, Chapters, Monographs, and Editorials

1.	<b>Segar MW</b> , Pandey A. Omics, Machine Learning, and Personalized Medicine in HFpEF: Promising Future or False Hope? <i>European Journal of Heart Failure</i> (2021)
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2.	<b>Segar MW</b> , Krajcer V. Sex Differences in Trans-septal Transcatheter Mitral Valve Replacement: Closing the Disparity Gap. <i>Catheterization and Cardiovascular Interventions</i> (2022)
3.	<b>Segar MW</b> , Coulter SA. Inflammatory Pathways and Their Implications in Heart Failure with Preserved Ejection Fraction. <i>The Journal of the Texas Heart Institute</i> (2023)
4.	<b>Segar MW</b> , Keshvani N, Pandey A. From Prediction to Prevention: The Role of Heart Failure Risk Models. <i>European Journal of Heart Failure</i> (2023)
5.	<b>Segar MW</b> , Pandey A. Understanding the Language of the Heart: Using Natural Language Processing to Diagnose HFpEF. <i>European Journal of Heart Failure</i> (2024)
6.	<b>Segar MW</b> , Nair A, Pandey A. An Exercise Enigma: Unraveling the Complexity of Exercise Intolerance in HFpEF. <i>European Journal of Heart Failure</i> (2024)
7.	Suero OR, Ali AK, Barron LR, <b>Segar MW</b> , Moon MR, Chatterjee S. Postoperative atrial fibrillation (POAF) after cardiac surgery: Clinical practice review. <i>Journal of Thoracic Disease</i> (2023)
8.	Zhang A, Kalil R, Marzec A, Coulter SA, Virani S, Patel KV, <b>Segar MW</b> . Cardiovascular Disease Management with Sodium-Glucose Cotransporter 2 Inhibitors in Patients with Type 2 Diabetes: A Cardiovascular Primer. <i>The Journal of the Texas Heart Institute</i> (2024)

Letters to the Editor

1.	<b>Segar MW</b> , Vaduganathan M, McGuire DK, Basit M, Pandey A. Predicting Heart Failure in Diabetes: A Reply. <i>Diabetes Care</i> , 43, e26-e27. (2020)
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Non-peer reviewed scientific publications/materials in print or other media

1.	<b>Segar MW</b> . A Commentary on Benefit of Sodium-Glucose Cotransporter-2 Inhibitors on Survival Outcome is Related to the Type of Heart Failure. <i>PracticeUpdate</i> (2023)
2.	<b>Segar MW</b> . Frailty Status Modifies the Efficacy of ICD Therapy Among Patients with HFrEF. <i>PracticeUpdate</i> (2023)

**Invited Talks**

Year	Title	Location
<b>International</b>		
2022	Ertugliflozin Digital Diabetes Dialogue, Merck, July 11	Webcast
2022	EASD Symposium, “New Insights on Heart Failure from the VERTIS CV Study”, September 19	Stockholm, Sweden
<b>National</b>		
2016	Eastern-Atlantic Student Research Forum, “Clinical utility of alternative splicing events across tumor types”, March 7	Miami, FL

2019	Mayo Clinic - Artificial Intelligence in Cardiology, “Phenomapping patients with heart failure with preserved ejection fraction”, June 21	San Francisco, CA
2019	AHA Scientific Sessions, “Variability in Hemoglobin A1c and Risk of Incident Heart Failure among Patients with Type 2 Diabetes Mellitus”, November 17	Philadelphia, PA
2020	AHA Scientific Sessions, “Development and Validation of Machine Learning-based Race-specific Models to Predict 10-year Risk of Heart Failure: A Multi-cohort Analysis “, November 17	(Online) Dallas, TX
2021	AHA Scientific Sessions, “Incorporation of Natriuretic Peptides with Clinical Risk Scores to Improve Heart Failure Risk Prediction in Patients with Dysglycemia”, November 18	(Online) Boston, MA
2022	ACC Scientific Sessions, “Effect of Ertugliflozin across the Spectrum of WATCH-DM Risk Scores: An Analysis of VERTIS-CV”, April 2	Washington, D.C.
2022	Heart Rhythm Society, “Trajectories of Atrial Fibrillation Quality of Life”, April 30	(Online) San Francisco, CA
2022	ADA Scientific Sessions, “WATCH-DM Predicts Risk of Diabetic Cardiomyopathy”, June 6	New Orleans, LA
2022	AHA Scientific Sessions, “Development and Validation of Phenomapping Tool to Predict Diuretic Resistance”, November 5	Chicago, IL
2022	AHA Scientific Sessions, “Frailty Modifies the Efficacy of ICD Therapy in HFpEF”, November 6	Chicago, IL
2023	THI Symposium on Cardiovascular Regenerative Medicine, “Inflammation in HFpEF – Circumstantial or Key?”, May 11	Houston, TX
2023	Heart in Diabetes, “Obesity, Diabetes, and Risk of Heart Failure in Older Adults”, June 9	Philadelphia, PA
<b>Regional/Local</b>		
2016	IU Cancer Center, “Association of splicing upregulation of LASP1 in breast cancer prognosis”, May 9	Indianapolis, IN
2019	Seldin Symposium, UTSW Grand Rounds, “Phenomapping of patients with heart failure with preserved ejection fraction using machine learning-based unsupervised cluster analysis”, May 6	Dallas, TX
2020	Seldin Symposium, UTSW Grand Rounds, “Race-specific and machine learning-based models to predict 10-year risk of incident heart failure”, May 29	Dallas, TX