

CURRICULUM VITAE

Elliott Miller, MD, MHS

Version Date: 9/25/2024

Contact Information:

Address Yale University, Section of Cardiovascular Medicine
789 Howard Avenue, Ste 338
New Haven, CT 06519
Phone: 1 (330) 417-6228
Email: elliott.miller@yale.edu

School: Yale School of Medicine

Education:

08/2005 - 05/2008 BS, University of North Carolina at Chapel Hill, Chapel Hill, NC
08/2008 - 05/2012 MD, Georgetown University, Washington, DC
07/2019 - 06/2021 MHS, Yale University, New Haven, CT

Career/Academic Appointments:

07/2012 - 06/2015 Internal Medicine Residency, Johns Hopkins Hospital, Baltimore, MD
07/2015 - 06/2016 Instructor of Medicine, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD
07/2016 - 06/2017 Critical Care Medicine Fellow, Critical Care Medicine, National Institutes of Health, Bethesda, MD
07/2017 - 06/2020 Clinical Fellow, Cardiology (Medicine), Yale School of Medicine, New Haven, CT
07/2017 - 06/2020 Cardiovascular Medicine Fellow, Cardiology, Yale University, New Haven, CT
07/2019 - 05/2021 NCSP Research Fellow, Yale University, New Haven, CT
07/2020 - 06/2021 Instructor, Cardiology (Medicine), Yale School of Medicine, New Haven, CT
07/2020 - 06/2021 Postdoctoral Fellow, General Medicine, Yale School of Medicine, New Haven, CT
07/2021 - 06/2027 Assistant Professor, Cardiology (Medicine), Yale School of Medicine, New Haven, CT

Administrative Positions:

2013 - 2015 Feedback Committee, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD
2015 - 2016 Residency Selection Member, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD
2021 Associate Medical Director, Cardiac Intensive Care Unit, Yale School of Medicine, New Haven, CT

2022 - Present	Medical Director, Cardiac Intensive Care Unit, Yale School of Medicine, New Haven, CT
2022 - Present	Firm Chief, CICU, Internal Medicine, Yale School of Medicine, New Haven, CT

Board Certification:

2015 - 2024	AB of Internal Medicine, Internal Medicine
2020 - 2024	AB of Internal Medicine, Cardiovascular Disease
2021 - 2024	AB of Internal Medicine, Critical Care Medicine (Internal Medicine)

Professional Honors & Recognition:

International/National/Regional

2011	Alpha Omega Alpha, Alpha Omega Alpha Honor Medical Society
2012	William P. Argy Award, Georgetown University School of Medicine
2014	Osler Housestaff Research Award, Johns Hopkins Hospital
2015	Resident/Fellow National Clinical Research Winner, American College of Physicians (ACP)
2016	NIH Loan Repayment, National Institutes of Health
2019	Emerging Investigator, Circulation: Heart Failure
2019	Cournand and Comroe Early Career Investigator Finalist, American Heart Association
2023	First Place Conference Research Prize, European Heart Society - Acute Cardiovascular Care
2024	Top 5 Review of 2023, JACC: Advances

Yale University/Yale School of Medicine/Hospital System

2022	Fred S. Kantor Internal Medicine Teacher of the Year Award, Yale School of Medicine
2024	Francis Gilman Blake School of Medicine Teacher of the Year Award, Yale School of Medicine

Grants/Clinical Trials History:

Current Clinical Trials

Agency:	Yale University School of Medicine
I.D.#:	1506016080REG
Title:	Multimodal Outcome CHAracterization (MOCHA) in comatose cardiac arrest patients
P.I.:	Rachel Beekman
Role:	Sub-Investigator
Percent effort:	N/A
Total costs:	-
Project period:	01/01/2004 - ongoing

Agency: University of Michigan
 I.D.#: 2000028905
 Title: Influence of Cooling Duration on Efficacy in Cardiac Arrest Patients - A Multicenter, Randomized, Adaptive Clinical Trial to Identify the Optimal Duration of Induced Hypothermia for Neuroprotection in Comatose Survivors of Cardiac Arrest (ICECAP)
 P.I.: Rachel Beekman
 Role: Sub-Investigator
 Percent effort: N/A
 Total costs: -
 Project period: 11/23/2020 - ongoing

Agency: Yale University School of Medicine
 I.D.#: 2000032567
 Title: Extubation Echo Parameters for Patients with Heart Failure with Reduced Ejection Fraction in the Cardiac Intensive Care Unit
 P.I.: Elliott Miller
 Role: Principal Investigator
 Percent effort: N/A
 Total costs: -
 Project period: 07/07/2022 - ongoing

Past Grants

Agency: National Center for Advancing Translational Science (NCATS), a component of the National Institutes of Health (NIH)
 I.D.#: TL1 TR001864
 Title: Yale National Clinician Scholars Program
 P.I.: Cantley, Lloyd
 Role: Research Fellow
 Percent effort: N/A
 Total costs: \$96,195.00
 Project period: 07/01/2020 - 06/30/2021

Past Clinical Trials

Agency: Zoll Foundation
 I.D.#: 2000028970
 Title: Assessing Synaptic Density in Cardiac Arrest Survivors Using [11C]UCB-J PET: a Pilot Study
 P.I.: Rachel Beekman
 Role: Sub-Investigator
 Percent effort: N/A
 Total costs: -

Project period: 11/18/2020 - 07/27/2023

Pending Clinical Trials

Agency: Fisher & Paykel Healthcare Limited
 I.D.#: 2000038572
 Title: The EXTUBATE-HF Trial A Prospective Randomized Controlled Trial Comparing High-Flow Nasal Cannula Versus Noninvasive Ventilation on Reintubation and Post-Extubation Respiratory Failure in High-Risk Patients with Systolic Heart Failure
 P.I.: Elliott Miller
 Role: Principal Investigator
 Percent effort: N/A
 Total costs: -

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

1. "Critical Care Cardiology: The Why; The Where; and The How.". American College of Cardiology Scientific Sessions, American College of Cardiology Scientific Sessions 2018, Orlando, FL, January 2018. (Lecture)
2. "Practical Knowledge for the CICU". NYU, Critical Care Cardiology Symposium 2021, International symposium on critical care cardiology., November 2021. (Oral Presentation)
3. "Beyond the Heart: How to Manage Respiratory, Renal and Multisystem Failure in the Critically Ill Cardiac Patient". Sponsored by Zoll, Critical Care Cardiology Virtual Summit: Optimizing Care in Today's CICU, Three day conference detailing advances in critical care cardiology., March 2022. (Lecture)
4. "FDA Town Hall 5: The Conundrum of Cardiogenic Shock Trials – Complexities in Design and Execution". Transcatheter Cardiovascular Therapeutics (TCT), Transcatheter Cardiovascular Therapeutics (TCT) Conference 2022, Boston, MA, September 2022. (Oral Presentation)
5. "Developing a Research Program in Your CICU". NYU, Critical Care Cardiology Symposium 2022, New York, NY, October 2022. (Other)
6. "Mechanical ventilation strategies in acute right heart failure". American Heart Association, American Heart Association Scientific Sessions 2022, Chicago, IL, November 2022. (Lecture)
7. "After the Device Goes In, What's Next? Keys to Successfully Transitioning the Patient to the Cardiac ICU". SCAI Shock 2023, Dallas, TX, October 2023. (Oral Presentation)
8. "The Cardiogenic Shock Team". SCAI Shock 2023, Dallas, TX, October 2023. (Other)
9. "The Shock ICU". SCAI Shock 2023, Dallas, TX, October 2023. (Other)
10. "Post Cardiotomy Emergencies". Critical Care Cardiology Symposim 2023, New York, NY, October 2023. (Lecture)
11. "Mechanical Ventilation in single ventricle physiology and cyanotic heart disease: does anything change?". American Heart Association Scientific Sessions 2023, Philadelphia, PA, November 2023. (Oral Presentation)
12. "Critical Care Cardiology Simulation Stations POCUS". American Heart Association Scientific Sessions 2023, Philadelphia, PA, November 2023. (Demonstration)

13. "Critical Care Cardiology Simulation Stations Hemodynamics - Pulmonary Artery Catheter". American Heart Association Scientific Sessions 2023, Philadelphia, PA, November 2023. (Demonstration)
14. "Pulmonary Hypertension in the Pregnant Patient". ACC'S RH and Cardio-OB Webinar, ACC Webinar, January 2024. (Lecture)
15. "Cardio-Protective Ventilation During VA-ECMO: "Fact or Fiction?"". ACC Scientific Sessions 2024, Atlanta, GA, April 2024. (Lecture)
16. "CCC Training Fellowship Design, the Application Process, and Things to Consider for Job Preparation". Critical Care Cardiology Education Summit, Minneapolis, MN, May 2024. (Other)
17. "Critical Care Cardiology Education". Critical Care Cardiology Education Summit, Minneapolis, MN, May 2024. (Lecture)

Regional

1. "Clinical Outcomes and Cost Associated With an Intravascular Microaxial Left Ventricular Assist Device vs Intra-aortic Balloon Pump in Patients Presenting With Acute Myocardial Infarction Complicated by Cardiogenic Shock". Inova Heart and Vascular Institute, Inova Cardiovascular Fellows' Journal Club, Invited guest to discuss my recent publication in JAMA Internal Medicine., July 2022. (Lecture)
2. "Temporary mechanical circulatory support". Norwalk Hospital, Norwalk Internal Medicine Noon Lecture, Norwalk, CT, September 2022. (Lecture)
3. "Cardiogenic Shock and Mechanical Circulatory Support". Norwalk Resident Noon Conference, Norwalk, CT, September 2023. (Lecture)

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

International/National

1. Incidence and outcomes for patients presenting with heart failure and requiring respiratory support.. American Heart Association Scientific Sessions, American Heart Association Scientific Sessions 2018, Chicago, IL, January 2018. (Oral Presentation)

Regional

1. Arterial remodeling in patients with HIV: a multicenter AIDS cohort study (MACS) substudy.. American College of Physicians - Maryland Chapter, Maryland American College of Physicians Resident Meeting, Baltimore, MD, January 2014. (Oral Presentation)

Professional Service:

Advisory Boards

2021 - Present Editorial Board, JACC: Advances, Journal of the American College of Cardiology

Journal Services

Reviewer

2014 - Present	Reviewer, Circulation
2014 - Present	Reviewer, American Journal of Cardiology
2017 - Present	Reviewer, American Heart Journal
2019 - Present	Reviewer, European Journal of Acute Cardiovascular Care
2020 - Present	Reviewer, Journal of the American Heart Association
2020 - Present	Reviewer, Journal of the American College of Cardiology
2020 - Present	Reviewer, JACC Heart Failure
2020 - Present	Reviewer, AHA Scientific Statements
2021 - Present	Reviewer, Journal of Cardiac Failure
2022 - Present	Reviewer, European Heart Journal
2022 - Present	Reviewer, JACC: Advances
2022 - Present	Reviewer, Journal of Intensive Care Medicine
2023 - Present	Reviewer, CHEST Critical Care
2023 - Present	Reviewer, American Journal of Respiratory and Critical Care Medicine

Professional Organizations

ACC Cardiac Critical Care Working Group

2017 - Present	Committee Member, ACC Cardiac Critical Care Working Group
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ACC Critical Care Cardiology Council Research & Publications Taskforce

2022 - Present	Co-Chair, ACC Critical Care Cardiology Council Research & Publications Taskforce
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American College of Cardiology

2012 - Present	Member, American College of Cardiology
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American Heart Association

2012 - Present	Member, American Heart Association
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Critical Care Cardiology Leadership Council

2023 - Present	Member, Critical Care Cardiology Leadership Council
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Critical Care Cardiology Trials Network

2018 - Present	Investigator, Critical Care Cardiology Trials Network
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Society of Critical Care Cardiology

2024 - Present	Executive Board Member, Society of Critical Care Cardiology
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Yale University / Hospital System

University

2021 - Present	Member, Core Fellowship Selection Committee
2022 - Present	Member, ACGME Core Faculty

Medical School

2022 - Present	Firm Chief, CICU Firm Chief
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Department

2022 - Present	Committee Member, Intern Selection Committee
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Hospital

2019 - Present	Committee Member, Cardiac Arrest (TTM) Committee
2019 - 2020	Committee Member, Cardiac Arrest Bundle Committee
2020 - Present	Committee Member, ICU Leadership Committee
2021 - Present	Committee Member, Code and Rapid Response Committee
2022 - Present	Board of Directors, ELSO Steering Committee for the ELSO Center of Excellence

Public Service / Media Presence

Public Service

2005 - 2008	Founder, Project HEAL, Project Heal is a 501(c)3 non-profit organization, which shipped over thousands of pounds of medical supplies donated from the Cleveland Clinic's WedWish International program. Today, it remains a student group at UNC under the Campus Y (center for social justice), which continues to send yearly service trips to Ghana. After I left, the non-profit wing became MedPLUS Connect, and has since shipped over 97,000 pounds of medical supplies.
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Bibliography:

Peer-Reviewed Original Research

1. **Miller PE**, Budoff M, Zikusoka M, Li X, Palella F, Kingsley LA, Witt MD, Sharrett AR, Jacobson LP, Post WS. Comparison of Racial Differences in Plaque Composition and Stenosis Between HIV-Positive and HIV-Negative Men from the Multicenter AIDS Cohort Study. The American Journal Of Cardiology 2014, 114: 369-375. [PMID: 24929623](#), [PMCID: PMC4143765](#), [DOI: 10.1016/j.amjcard.2014.04.049](#).
2. **Miller PE**, Haberlen SA, Metkus T, Rezaeian P, Palella F, Kingsley LA, Witt MD, George RT, Jacobson LP, Brown TT, Budoff M, Post WS. HIV and coronary arterial remodeling from the Multicenter AIDS Cohort Study (MACS). Atherosclerosis 2015, 241: 716-722. [PMID: 26132282](#), [PMCID: PMC4509808](#), [DOI: 10.1016/j.atherosclerosis.2015.06.022](#).
3. **Miller PE**, Martin SS, Toth PP, Santos RD, Blaha MJ, Nasir K, Virani SS, Post WS, Blumenthal RS, Jones SR. Screening and advanced lipid phenotyping in familial hypercholesterolemia: The Very

- Large Database of Lipids Study-17 (VLDL-17). Journal Of Clinical Lipidology 2015, 9: 676-683. [PMID: 26350814](#), [DOI: 10.1016/j.jacl.2015.06.015](#).
4. **Miller PE**, Martin SS, Joshi PH, Jones SR, Massaro JM, D'Agostino R, Sponseller CA, Toth PP. Pitavastatin 4 mg Provides Significantly Greater Reduction in Remnant Lipoprotein Cholesterol Compared With Pravastatin 40 mg: Results from the Short-term Phase IV PREVAIL US Trial in Patients With Primary Hyperlipidemia or Mixed Dyslipidemia. Clinical Therapeutics 2016, 38: 603-609. [PMID: 26922296](#), [DOI: 10.1016/j.clinthera.2016.02.001](#).
 5. Rezaeian P, **Miller PE**, Haberlen SA, Razipour A, Bahrami H, Castillo R, Witt MD, Kingsley L, Palella FJ, Nakanishi R, Matsumoto S, Alani A, Jacobson LP, Post WS, Budoff MJ. Extra-coronary calcification (aortic valve calcification, mitral annular calcification, aortic valve ring calcification and thoracic aortic calcification) in HIV seropositive and seronegative men: Multicenter AIDS Cohort Study. Journal Of Cardiovascular Computed Tomography 2016, 10: 229-236. [PMID: 26949197](#), [PMCID: PMC4893917](#), [DOI: 10.1016/j.jcct.2016.02.002](#).
 6. **Miller PE**, Haberlen SA, Brown TT, Margolick JB, DiDonato JA, Hazen SL, Witt MD, Kingsley LA, Palella FJ, Budoff M, Jacobson LP, Post WS, Sears CL. Brief Report. JAIDS Journal Of Acquired Immune Deficiency Syndromes 2016, 72: 114-118. [PMID: 26825179](#), [PMCID: PMC4836953](#), [DOI: 10.1097/qai.0000000000000937](#).
 7. **Miller PE**, Zhao D, Frazier-Wood AC, Michos ED, Averill M, Sandfort V, Burke GL, Polak JF, Lima JAC, Post WS, Blumenthal RS, Guallar E, Martin SS. Associations of Coffee, Tea, and Caffeine Intake with Coronary Artery Calcification and Cardiovascular Events. The American Journal Of Medicine 2016, 130: 188-197.e5. [PMID: 27640739](#), [PMCID: PMC5263166](#), [DOI: 10.1016/j.amjmed.2016.08.038](#).
 8. **Miller PE**, Houston BA, Schneider AL, Bush AL, Whitman GJ, Stevens GR, Tedford RJ, Russell SD. Associations of Preimplant Red Blood Cell Distribution Width with Clinical Outcomes Among Individuals with Left Ventricular Assist Devices. ASAIO Journal 2016, 62: 677-683. [PMID: 27798492](#), [DOI: 10.1097/mat.0000000000000431](#).
 9. Houston BA, Schneider AL, Vaishnav J, Cromwell DM, **Miller PE**, Faridi KF, Shah A, Sciortino C, Whitman G, Tedford RJ, Stevens GR, Judge DP, Russell SD, Rouf R. Angiotensin II antagonism is associated with reduced risk for gastrointestinal bleeding caused by arteriovenous malformations in patients with left ventricular assist devices. The Journal Of Heart And Lung Transplantation 2016, 36: 380-385. [PMID: 28169115](#), [DOI: 10.1016/j.healun.2016.12.016](#).
 10. Joshi PH, **Miller PE**, Martin SS, Jones SR, Massaro JM, D'Agostino R, Kulkarni KR, Sponseller C, Toth PP. Greater remnant lipoprotein cholesterol reduction with pitavastatin compared with pravastatin in HIV-infected patients. AIDS 2017, 31: 965-971. [PMID: 28121706](#), [DOI: 10.1097/qad.0000000000001423](#).
 11. Almahmoud MF, Soliman EZ, Bertoni AG, Kestenbaum B, Katz R, Lima JAC, Ouyang P, **Miller PE**, Michos ED, Herrington DM. Fibroblast Growth Factor-23 and Heart Failure With Reduced Versus Preserved Ejection Fraction: MESA. Journal Of The American Heart Association 2018, 7: e008334. [PMID: 30371180](#), [PMCID: PMC6222949](#), [DOI: 10.1161/jaha.117.008334](#).
 12. **Miller PE**, Pawar S, Vaccaro B, McCullough M, Rao P, Ghosh R, Warier P, Desai NR, Ahmad T. Predictive Abilities of Machine Learning Techniques May Be Limited by Dataset Characteristics: Insights From the UNOS Database. Journal Of Cardiac Failure 2019, 25: 479-483. [PMID: 30738152](#), [DOI: 10.1016/j.cardfail.2019.01.018](#).
 13. **Miller PE**, Guha A, Khera R, Chouairi F, Ahmad T, Nasir K, Addison D, Desai NR. National Trends in Healthcare-Associated Infections for Five Common Cardiovascular Conditions. The American

- Journal Of Cardiology 2019, 124: 1140-1148. [PMID: 31371062](#), [PMCID: PMC7883647](#), [DOI: 10.1016/j.amjcard.2019.06.029](#).
14. **Miller PE**, Patel S, Saha A, Guha A, Pawar S, Poojary P, Ratnani P, Chan L, Kamholz SL, Alviar CL, van Diepen S, Nasir K, Ahmad T, Nadkarni GN, Desai NR. National Trends in Incidence and Outcomes of Patients With Heart Failure Requiring Respiratory Support. The American Journal Of Cardiology 2019, 124: 1712-1719. [PMID: 31585698](#), [DOI: 10.1016/j.amjcard.2019.08.033](#).
 15. Berg DD, Barnett CF, Kenigsberg BB, Papolos A, Alviar CL, Baird-Zars VM, Barsness GW, Bohula EA, Brennan J, Burke JA, Carnicelli AP, Chaudhry SP, Cremer PC, Daniels LB, DeFilippis AP, Gerber DA, Granger CB, Hollenberg S, Horowitz JM, Gladden JD, Katz JN, Keeley EC, Keller N, Kontos MC, Lawler PR, Menon V, Metkus TS, **Miller PE**, Nativi-Nicolau J, Newby LK, Park JG, Phreaner N, Roswell RO, Schulman SP, Sinha SS, Snell RJ, Solomon MA, Teuteberg JJ, Tymchak W, van Diepen S, Morrow DA. Clinical Practice Patterns in Temporary Mechanical Circulatory Support for Shock in the Critical Care Cardiology Trials Network (CCCTN) Registry. Circulation Heart Failure 2019, 12: e006635. [PMID: 31707801](#), [PMCID: PMC7008928](#), [DOI: 10.1161/circheartfailure.119.006635](#).
 16. **Miller PE**, Caraballo C, Ravindra NG, Mezzacappa C, McCullough M, Gruen J, Levin A, Reinhardt S, Ali A, Desai NR, Ahmad T. Clinical Implications of Respiratory Failure in Patients Receiving Durable Left Ventricular Assist Devices for End-Stage Heart Failure. Circulation Heart Failure 2019, 12: e006369. [PMID: 31707800](#), [DOI: 10.1161/circheartfailure.119.006369](#).
 17. Caraballo C, DeFilippis EM, Nakagawa S, Ravindra NG, **Miller PE**, Mezzacappa C, McCullough M, Gruen J, Levin A, Reinhardt S, Mullan C, Ali A, Maurer MS, Desai NR, Ahmad T, Topkara VK. Clinical Outcomes After Left Ventricular Assist Device Implantation in Older Adults An INTERMACS Analysis. JACC Heart Failure 2019, 7: 1069-1078. [PMID: 31779930](#), [DOI: 10.1016/j.jchf.2019.10.004](#).
 18. Owusu-Guha J, Guha A, **Miller PE**, Pawar S, Dey AK, Ahmad T, Attar H, Awan FT, Mitchell D, Desai NR, Addison D. Contemporary utilization patterns and outcomes of thrombolytic administration for ischemic stroke among patients with cancer. International Journal Of Stroke 2019, 16: 150-162. [PMID: 31868139](#), [PMCID: PMC7924729](#), [DOI: 10.1177/1747493019895709](#).
 19. McCullough M, Caraballo C, Ravindra NG, **Miller PE**, Mezzacappa C, Levin A, Gruen J, Rodwin B, Reinhardt S, van Dijk D, Ali A, Ahmad T, Desai NR. Neurohormonal Blockade and Clinical Outcomes in Patients With Heart Failure Supported by Left Ventricular Assist Devices. JAMA Cardiology 2020, 5: 175-182. [PMID: 31738366](#), [PMCID: PMC6865330](#), [DOI: 10.1001/jamacardio.2019.4965](#).
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 21. Giménez M, **Miller PE**, Alviar CL, van Diepen S, Granger CB, Montalescot G, Windecker S, Maier L, Serpytis P, Serpytis R, Oldroyd KG, Noc M, Fuernau G, Huber K, Sandri M, de Waha-Thiele S, Schneider S, Ouarrak T, Zeymer U, Desch S, Thiele H. Outcomes Associated with Respiratory Failure for Patients with Cardiogenic Shock and Acute Myocardial Infarction: A Substudy of the CULPRIT-SHOCK Trial. Journal Of Clinical Medicine 2020, 9: 860. [PMID: 32245139](#), [PMCID: PMC7141492](#), [DOI: 10.3390/jcm9030860](#).
 22. Metkus TS, **Miller PE**, Stephens RS, Schulman SP, Eid SM. Incidence, Predictors, and Outcomes of Failure of Noninvasive Ventilation in Acute Heart Failure Hospitalization. Respiratory Care 2020, 65: 1527-1533. [PMID: 32398254](#), [DOI: 10.4187/respcare.07661](#).

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24. Vallabhajosyula S, Dunlay SM, Barsness GW, **Miller P**, Cheungpasitporn W, Stulak JM, Rihal CS, Holmes DR, Bell MR, Miller VM. Sex Disparities in the Use and Outcomes of Temporary Mechanical Circulatory Support for Acute Myocardial Infarction-Cardiogenic Shock. *CJC Open* 2020, 2: 462-472. [PMID: 33305205](#), [PMCID: PMC7710954](#), [DOI: 10.1016/j.cjco.2020.06.001](#).
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