

**EMORY UNIVERSITY SCHOOL OF MEDICINE
STANDARD CURRICULUM VITAE FORMAT**

Revised: January 2023

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3. **E-mail address:** heather.Bloom@gmail.com, HBloom@emory.edu

4. **Current Titles and Affiliations:**

a. Academic appointments

1. Associate Professor of Medicine, Emory University School of Medicine, 2012-present
2. Clinical Assistant Professor, Morehouse School of Medicine, 2017-present

b. Clinical Appointments

1. Director of Clinical Electrophysiology, Atlanta VA Medical center (VAMC), July 2005-present
2. Clinical Electrophysiologist, Grady Memorial Hospital, July 2006-present

5. **Past appointments:**

- a. Assistant Professor of Medicine, Emory University School of Medicine, July 2005-July 2012

6. **Licensures/Boards:**

a. Medical Licenses

1. ACTIVE: Georgia, exp 06/21
2. INACTIVE: CA exp 06/04, MA exp.6/1997

b. Medical Boards

1. INACTIVE: Internal Medicine: obtained 12/2002

7. **Specialty Boards- ACTIVE:**

- a. Cardiology Board Certification obtained: 12/2003
- b. Cardiac Electrophysiology Board obtained: 12/2005

8. **Education:**

- a. 1987-1991 University of Vermont, Burlington VT
BA in Chemistry and English
- b. 1989-1990 University of Kent in Canterbury England
(jr year abroad)
- c. 1991-1996 University of Vermont College of Medicine

9. Postgraduate Training:

- a. 1996-1997 General Surgery Internship Berkshire Medical Center, Pittsfield MA Dr. P Sadighi
- b. 1997-2000 Internal Medicine Residency St. Mary's Medical Center, San Francisco CA Dr. A Cosentino
- c. 2000-2003 Cardiology Fellowship University of California, Davis. Sacramento CA, Dr. W Bommer
- d. 2003-2005 Cardiac Electrophysiology Fellowship, Emory University Atlanta GA Dr. J Langberg

10. Committee Memberships:

a. National and International

- i. American College of Cardiology (ACC) Women in Cardiology 2005 – present
- ii. American Heart Association (AHA) Women in Cardiology Committee for the Council on Clinical Cardiology 2007-present
- iii. Heart Rhythm Society (HRS) Women's Leadership Initiative Task Force/ Committee 2007 - present
- iv. Clinical Events Committee (CEC) Board Member 2007-2009. Sponsor: Biotronik. Study: REPLACE.
- v. Heart Rhythm Society (HRS) Membership Committee 2007-2009
- vi. Clinical Events Committee (CEC); Board Chair: 2008-2018; Sponsor: Biotronik. Study: Galaxy.
- vii. Clinical Events Committee (CEC); Board Chair: 2008-2019 Sponsor: Biotronik Study: Celestial.
- viii. ACC Electrophysiology Committee 2009-2012

- ix. Clinical Events Committee (CEC) Board Chair 2009-2010
Sponsor: TyRX pharma. Study: COMMAND.
- x. Clinical Events Committee (CEC) Board Chair: 2010-2013; Sponsor: TyRX Pharma. Study: Centurion.
- xi. Clinical Events Committee (CEC) Board Chair: 2010-2013; Sponsor: TyRX Pharma. Study: Citadel.
- xii. HRS Educational Programs and Services Subcommittee: 2015-2019; Catheter Ablation Section Leader 2017-2019
- xiii. International- Cardiac Implantable Electronic Device (CEID- pacemakers/Defibrillators) Infection Risk Score Scientific Committee 2018 - present

b. Regional and State

- i. Sudden Cardiac Arrest Association (SCAA) – Medical Advisor for the Greater Atlanta Area Chapter 2009-present

c. Institutional

- i. Internal Review Board (IRB) Emory University 2005-present
- ii. Committee for Faculty Salary Determination Atlanta VAMC 2006-2007, reconvened 12/2011 for 1 session
- iii. Faculty Life Committee Emory University 2006-2010; secretary 2007-2009
- iv. Root Cause Analysis Committee VAMC 2007-present

11. Peer Review Activities:

a. Manuscripts

- i. *HEART* 2005-present
- ii. *Pacing and Clinical Electrophysiology (PACE)* 2005-present
- iii. *Journal of Clinical Electrophysiology (JCE)* 2005-present
- iv. *Heart Rhythm* 2005- present
- v. *American Geriatric Cardiology Society* 2006- present
- vi. *International Journal of COPD* 2007- present
- vii. *Circulation- CIRC EP* 2007-present

- viii. *Cardiology Research and Practice 2010-present*
- ix. *Combination Products in Therapy 2011-present*
- x. *Journal of Clinical Trials 2012-present*
- xi. *Journal of Neurocardiovascular Disease (NCVD) 2014-present*

- b. Invited Peer Reviewer for Heart Rhythm Consensus Document: HRS Expert Consensus Statement on Diagnosis and Treatment of Postural Tachycardia Syndrome, Inappropriate Sinus Tachycardia and Vasovagal syncope, 2014. (published 2015). Invited expert peer reviewer to review draft of the consensus statement, provide feedback, and participate in conference call to discuss final draft.

12. Consultantships:

- a. New Mentor (formerly Motive Mentor) 2010-2018

This private company worked with hospitals to develop educational documents and tools. As a consultant, I reviewed and edited clinical management and treatment guidelines for use by hospitalists and house staff; prepared patient education hand outs and on-line programs (20-40/year) and reviewed or created hospital protocols for management of cardiology conditions.

- b. Expert Witness in General Cardiology and Cardiac Electrophysiology 2007 to present

13. Editorial Board Member:

- a. Journal of Innovations in Cardiac Rhythm Management (JCRM) 2013-present
- b. Journal of Neurocardiovascular Disease (NCVD) 2014-present
- c. Arrhythmia: Open Access 2015-present
- d. Circulation: Arrhythmia and Electrophysiology: Advisory Panel on Devices 2020 - present

14. Honors and Awards:

- a. VAMC Certificate of Appreciation for VAMC Federal Women's Program 2/2008
- b. Excellence in Teaching Award from Department of Medicine Cardiovascular Medicine Fellowship Program 6/2008
- c. Excellence in Teaching Award from Department of Medicine Cardiovascular Medicine Fellowship Program 6/2009
- d. REPLACE Clinical Events Committee- In recognition of work efforts and dedication.. presented 12/15/2009
- e. Certificate of Appreciation, Atlanta VAMC Service during the Great Atlanta Snow 2011

- f. Excellence in Teaching Award from Department of Medicine
Cardiovascular Medicine Fellowship Program 6/2011
- g. Daisy Team Finalist Award, Cath lab team-in recognition of team's efforts that make a meaningful difference to the lives of our Veterans, 6/2015
- h. Excellence in Teaching Award from Department of Medicine
Cardiovascular Medicine Fellowship Program 6/2017
- i. Emory IRB Frequent Flyer award for Outstanding Service 3/ 2018
- j. Certificate of Commitment: In recognition of exhibiting the Core Value of Commitment working diligently to serve Veterans 7/6/2018
- j. Excellence in Teaching Award from Department of Medicine
Cardiovascular Medicine Fellowship Program 6/2023

15. Society Memberships:

- a. American College of Cardiology (ACC): 2001- 2005; resident
- b. American College of Cardiology 2006-present, Fellow (FACC)
- c. Heart Rhythm Society (HRS) 2003-present
- d. Electrophysiology Society (EPS) 2006-2014
- e. Metro-Atlanta Pacing Society (MAPS) 2007-2010
- f. American Heart Association (AHA) 2007-2013

16. Organization of Conferences:

- a. International:
 - i. Administrative Positions:
 - 1. Annual International Conference on Cardiology & Cardiovascular Medicine Research (CAMR) Singapore – conference board member responsible for reviewing and selecting abstract submissions December 2015
 - 2. Annual Heart Rhythm Scientific sessions invited Abstract reviewer 2023
- b. National
 - 1. Invited Peer reviewer challenge questions for the ACC2020/WCC (Women in Cardiology) State Chapter Fellow-In-Training Competition for ACC20 Spring 2020

17. Clinical Service Contributions: 2005-Present except where noted

- a. VAMC Electrophysiology consult service:- 12 months per year
- b. VAMC General Cardiology consult service:1 months per year
- c. VAMC Cardiac Intensive Care Unit: 1.5 months per year
- d. VAMC Electrophysiology Clinics: 3 simultaneous - ½ day clinics per week
- e. VAMC Pre-ICD clinic: ½ day per week
- f. VAMC Pacer/ICD clinic: 3 days per week

- g. Invasive procedures/surgeries: 4 days per week (3.5 days VAMC, ½ day Grady Hospital)
- h. VAMC Non-invasive procedures (cardioversions, tilt table tests): 3-10 per week
- i. VAMC Loop recorder insertions in clinic 2-6 per week (2011-present)
- j. Formal VAMC Hospital Protocols Written
 - 1. Protocol for Treatment of rapid atrial fibrillation 5/2006
 - 2. Protocol for Use of IV beta-blockers on telemetry 2007
 - 3. Protocol for CRM Device Deactivation 2007
 - 4. Protocol of initiation of Dofetilide 2008
 - 5. Protocol for cardiac device deactivation for hospice 2009
 - 6. Protocol for use of Precidex 2010
 - 7. Protocol for CEID device management after hours 2012
 - 8. Standard Operating Protocol (SOP) for MRI scans in patients with Cardiac Electronic Implantable Devices (CEIDs) Atlanta VAMC 2014
 - 9. SOP for administration of therapeutic radiation for CEID patients Atlanta VAMC 2017
 - 10. SOP for Cardiac Electronic Implantable Device Clinic services Atlanta VAMC January 2019
- k. Cardioversion template for CPRS (Electronic Medical Record for VA) 2008
- l. Tilt table template for CPRS 2011
- m. Template for prescribing dofetilide in hospital CPRS 2013

18. Community Outreach:

- a. General:
 - i. ICD support group for Veterans: Atlanta VAMC 6/2007-2011; met every 4-8 weeks with topics and discussion for patients
 - ii. SCAA Gwinnett County Summer Safety Fair June 5, 2010; community lectures on Sudden Cardiac Arrest (SCA) and CPR
 - iii. SCAA Community SCA/AED presentation (2011, 2015, 2016, 2017, 2018)
 - iv. AAHL (Atlanta Area Hockey League) 2011-present
 - 1. Medical Advisor 2011-present; provide ongoing first aid and CPR lectures biannually 2011-present

2. First Responder Committee, Chair 2018-present; medical education general health, screening, exercises for injury prevention and recovery, quarterly newsletter publication
- v. Workshop: Basic Anatomy, bones, organs, heart model and pacemakers! Cub Scouts, Tiger Den#2 Meeting, March 15, 2013 Oak Grove UMC (United Methodist Church) Scout Hall
- vi. Workshop: CPR/AED “friends and family” class Midtown International School, middle/high school grades/teachers. Hands-on CPR with AHA kit dummies, and model AED May 7, 2015, October 13, 2016
- vii. Workshop: Hands-on cardiac dissection lab, sheep hearts Midtown International School October 27, 2016, Led 3 sections of science classes 5th-8th grade on dissection of the heart, with sheep heart specimens
- viii. Hospital tours of the Atlanta VA Medical Center- ER/ICU/Floors/Cardiology 3 student groups, middle school/high school Midtown International School December 15, 2016

Booklets/hand outs

- i. Patient Hand out “What you need to know about your Pacemaker” 2005
- ii. Patient Hand out “What you need to know about your ICD” 2005
- iii. DVD- filmed my 40 min talk for patients “What do you need to know about ICDS?” 2009. Given out at pre-ICD clinic to answer ICD questions
- iv. EP booklet for Staff 2010, updated 2013. 82 pages
- v. Atrial fibrillation Pre-procedure patient education handouts 2012
- vi. Staff Education hand out for anticoagulation 2008, updated 2012, 2017, 2019
- vii. Staff Education hand out- protocol for performing tilt table testing for Adrenergic POTS (Postural Orthostatic/Tachycardia Syndrome) 2017

19. Formal Teaching:

- a. Medical Student
 - i. Emory University Cardiology Series: Arrhythmia April 6, 2009-2011
- b. Graduate Programs
 - 1. Residency Programs:
 - 1) Formal lectures for residents, fellows, medical students during service months, Department of Medicine 2005-present; 1-2 hourly lectures per day when on service
 - 2) VA house staff noon conference: SVT or VT or Devices, Department of Medicine, 2005-present, 1-5x/year
 - 3) VA Clinical Core Lecture Cardiology- Ventricular Tachycardia, Department of Medicine 2005-2008; (1hr/yr)
 - 4) Grady Grand Rounds- Cardiac Rhythm Management Devices, Department of Medicine 2005-2010; (1hr/yr)
 - 5) Grady Clinical Core Lecture Cardiology- Ventricular Tachycardia, Department of Medicine 2005-2014; (1hr/yr)
 - 6) Grady Clinical Core Lecture Cardiology- Supraventricular Tachycardia, Department of Medicine 2007; (1hr/yr)
 - 7) VA Clinical Core Lecture Cardiology- Supraventricular Tachycardia, Department of Medicine 2007; (1hr/yr)
 - 8) VA Clinical Core Lecture Cardiology- Wide Complex Tachycardia, Department of Medicine 4/7/2009; (1hr/yr)
 - 9) VA noon conference- Atrial Arrhythmias and Ablation, Department of Medicine 2010; (1hr/yr)
 - 10) ENT surgical residents Grand Rounds: Atrial fibrillation, Department of Surgery, 2010; (1hr/yr)
 - 11) VA Clinical Core lecture house staff: Electrocardiograms, Department of Medicine 2011; (1hr/yr)
 - 12) VA Clinical Core lectures Ventricular Arrhythmias 2014; (1hr/yr)
 - 2. Fellowship Programs:

- i. Clinical Cardiology Fellow: a series of 3 formal talks per week, 12 months a year; 2005-present (1 hr/each)
- ii. VA cardiology Fellow weekly noon conference: EGC for the boards, Monday 12-1 pm; (1hr/yr)
- iii. Atlanta VAMC staff conferences: ECG and arrhythmia question of the month; 2007, 2010, 2013; (1hr/yr)
- iv. General Cardiology Fellows Core Lecture: Syncope 2007, 2010, 2011; (1hr/yr)
- v. General Cardiology Fellows Core Lecture: Supraventricular arrhythmias 2007-2009; (1hr/yr)
- vi. VA Cardiology Journal Club 2006 Microvolt T wave alternans testing; (1hr/yr)
- vii. Electrophysiology Journal Club Emory University School of Medicine 8/15/2007 REPLACE study; (1hr/yr)
- viii. VAMC Journal Club Long QT syndrome 2007; (1hr/yr)
- ix. General Cardiology Fellows Core Lecture: Ventricular arrhythmias 2009; (1hr/yr)
- x. General Cardiology Fellows Core Lecture: Bradycardia 2011; (1hr/yr)

20. Supervisory Teaching:

- a. Postdoctoral Fellows Directly Supervised:
 - i. Raul Blanco 2006-2008, Currently Cardiologist at Piedmont Heart Institute, Atlanta GA
 - ii. Samantha Svarczkopf Lucas MD, 2006-2007 Cardiology Fellow, completed Electrophysiology (EP) Fellowship University of Louisville 2009-2011 Columbus Regional Hospital, Indiana. Currently EP attending at Southern Indiana Heart and Vascular Center 2012-present
 - iii. Richard Vest MD, 2007-2009, Cardiology Fellow, EP fellowship MSSC 2009-2011. Currently Director of the Electrophysiology Laboratory at St. Vincent's Hospital 2017-present

b. Other:

Clinical Research Coordinators

- i. Radhika Gadesam MD, 2007-2009, accepted to Internal Medicine residency Morehouse College of Medicine, currently Hospitalist at Geisinger-Community Medical Center, Scranton PA, Clinical affiliation of University of Maryland, Capital Region Healthy Prince George's Hospital Center 2009-present
- ii. Ravindar Reddy MD 2005- 2011 completed Family Medicine Residency at Scranton Temple Residency Program. Currently Family Medicine practice in Pennsylvania 2011-present
- iii. Irfan Shukrullah MD, 2006-2009 proceeded to Internal Medicine (IM) training University of IL at Chicago, Fellowship at University of Maryland (U Md), Nephrology fellowship. Currently an Assistant Professor of Medicine at U MD 2018-present

Premedical College students

- i. Summer intern 2011: Jesus Arroyo, went to Nursing School, 2011-2013 Currently Cardiac Catheterization Lab Nurse in Nashville Tn, HCA Healthcare 2015-Present
- ii. Summer intern 2012: Jessica Parker accepted to Medical School 2013, currently in her third year of Family Medicine Residency at Southern Regional in Fayetteville NC 2019-20

Medical Student Summer Intern

- i. William Jang, Summer 2006, resulted in American College of Cardiology Oral Abstract Presentation. Virginia Mason Medical Center residency, Currently an Anesthesiologist at Pearce Health Southwestern Medical Center Vancouver WA 2014-present

Nurse, involved with research and developed Veterans ICD support group

- i. Lisa Williams, RN 2007-2010 mentored involving research, resulted in Lisa's participation on several research studies, and two publications in EP Lab Digest. Went on to complete MBA, BSN, now Program Manager, Medical Department of Homeland Security Automated External Defibrillator Program, Workforce Health & Safety, US Department of Homeland Security 2015-present

Exam Preparation and Grading

- i. Weekly Board Review Course for Fellows, ECG practice for general Cardiology Boards, Mondays, 12-1 pm 2005-present
- ii. Assisted with writing questions for EP fellows end of year exam 2008-2012

21. Lectureships, Seminar Invitations and Visiting Professorships:

a. National/International:

- i. Cognis-Teligen educational lecture for HRS Allied Professionals 8/18/2008; Houston, TX
- ii. HRS Invited Physician Panel Discussion: Hospital Acquired Infections: Heart Rhythm Society Annual Sessions; Denver CO 5/13/2010
- iii. TYRX, live webinar on Cardiac Rhythm Management Device Infections; presented online and recorded 6/21/2010
- iv. Medtronic Women in Electrophysiology; Annual conference. Invited faculty speaker, case presentations; Austin, TX September 25, 2011
- v. Medtronic Women in Electrophysiology. Annual conference. Invited faculty speaker "Mobile Applications in Cardiac Electrophysiology"; Austin, TX October 19, 2013

b. Regional:

1. Birmingham VAMC: Electrophysiology Studies: 6/19/2006
2. Heart Failure Management Symposium 2008 (Morehouse School of Medicine) Debate: Implant ICDs in all Heart Failure Patients according to LV Ejection Fraction Only: Protagonist. Panel Discussion on Heart Failure

c. Institutional:

1. Emory Crawford-Long Hospital Management Course: Rate Control of Atrial Fibrillation April 20, 2007

22. Invitations to National/International, Regional, and Institutional Conferences

a. National and International:

- i. Several prior to 2010
- ii. Update on Device Infections: TyRX Pharma, presented during HRS Scientific Sessions May 6, 2011, San Francisco, CA
- iii. Los Angeles CA, Anticoagulation Forum National Conference: What to do with Oral Anticoagulation in patients undergoing Cardiac Electrophysiology procedures, April 20, 2017
- iv. Invited presenter for HRS Scientific Sessions April 30 2022 3:30 pm , San Francisco, CA Optimization of CHF medications prior to ICD implantation
- v. Invited Faculty Chair for HRS Scientific Sessions May 1-3, 2022, San Francisco, CA Session Complex Cardiac Arrhythmia Management in Heart Failure
- vi. Invited Faculty Chair for HRS Scientific Sessions May 17-19 2023 Ventricular Arrhythmia Cases,
- vii. Invited Faculty Chair for HRS Scientific Sessions May 17-19 2023 Uses for AI in clinical diagnosis with ECGs
- viii. Invited Faculty Chair for HRS scientific Sessions may 14-17 2024
- ix. Invited speaker for Tyrx antimicrobial pouch HRS Scientific sessions May 15, 2024

b. Regional:

- i. Emory University IM board review course (Annual); 2006-2011
- ii. South Atlantic Society for Allied Professionals in EP (SASEAPS): End of Life issues with Cardiac Rhythm Management Devices September 2011, Myrtle Beach, SC
- iii. South Atlantic Society for Allied Professionals in EP (SASEAPS): Care of Women in EP; Effects of Sex Hormones on Arrhythmia; September 2015; Myrtle Beach, SC
- iv. South Atlantic Society for Allied Professionals in EP (SASEAPS): Updates in Anticoagulation for EP procedures, prepared for September 2018, cancelled due to hurricane; Myrtle Beach, SC

23. Other Activities

a. Other Teaching

1. Lecturer, Fellows Conference, Dates. Prepared and presented multiple lectures and accompany visual materials at monthly fellows' conferences. Prepared over 80 powerpoint lectures for daily teaching on CCU, COnsult and EP services,(Sample Titles listed on teaching portfolio.)

24. Abstract Presentations at National/International, Regional, and Institutional Conferences:

a. National and International:

1. **Bloom** H; Heeke B; Leon A; Mera F; De Lurgio D; Beshai J; Langberg JJ Renal Insufficiency: A Potent and Previously Unrecognized Risk for Infection after Device Implantation. *HRS 2005*. (Oral Presentation) *Heart Rhythm* 2005;4(52)
2. **Bloom** H; Langberg JJ; Preoperative BNP Levels Correlate with Degree of Fractional Improvement in Hall walk in Patients Undergoing Cardiac Resynchronization Therapy (CRT). *ACC 2005*. (Poster Presentation) *JACC* 2005;45(Supplement B1);321B
3. **Bloom** H Shukrullah I; Cuellar J; Lloyd M; Dudley SC; Zafari AM Long Term Survival After In-Hospital Cardiac Arrest. *HRS 2007*. (Oral Presentation) *Heart Rhythm* 2007;4(5S) 3-7
4. **Bloom** HL; Shukrullah I; Cuellar J; Veledar El Guttman R; London BI Dudley jr SC, Statins Decrease Oxidative Stress and ICD Events. *HRS 2008*. (Poster Presentation) *Heart Rhythm* 45 (5) S May 2008
5. **Bloom** H, Fan TM Using Ventricular Sense Response™ to optimize Biventricular Pacing in a Patient with no Atrial lead. *HRS 2008*. (Poster Presentation) *Heart Rhythm* 5 (5S) May 2008
6. Vest RN, Blanco RR; Valadri RR; Gutmann R; Dudley SC; London B; Zafari AM; **Bloom** HL. African Americans with Heart Failure, Racial Differences in ICD Therapies and Inflammatory and Oxidative Stress Markers. European Society of Cardiology Heart Failure Annual Scientific Session, Nice France. (Oral Presentation) May 30 2009
7. **Bloom** HL; Vest RN; Blanco R; Valadri R; Shukrullah I; Gutmann R; Gutmann R; London B; Dudley SC; Zafari AM. African-Americans with Cardiomyopathy Have More Ventricular Arrhythmias than Caucasians and Have Higher Levels of Inflammatory and Oxidative Stress Markers Genetic Syndromes in SCD: Brugada and Other Factors. *HRS 2009*. (Oral Presentation) *Heart Rhythm* 6 (5S) May 2009 s16-17

8. Vest RN*, Gadesam R, Valadri R, **Bloom** HL, Obesity does not increase risk of ventricular arrhythmias in a veteran patient population with ICDs. Keystone Symposium, Vancouver BC, Feb 25, 2009
9. Gleva MJ* for the REPLACE investigators (Poole JE; Theofanie M; Chung MK, Bloom H; Uslan D; Borge R; Govipaly V; Shinn T; Feldman L; Siede H; Winston SA, Langberg JJ; Mitchell K; Holcomb R.), Complication Rates Associated with Pacemaker and Implantable Defibrillator Generator Replacement: Results from the REPLACE Registry: Late Breaking Clinical Trials. HRS 2009, May 14, 2009. (Oral Presentation)
10. Vest RN*, Blanco RR, Valadri RR, Gutmann R, Dudley SC; London B, Zafari AM, **Bloom** HL, African Americans with Heart Failure, Racial differences in ICD therapies and inflammatory and oxidative stress markers. European Society of Cardiology-Heart Failure Annual Scientific Sessions; Nice, France; May 30, 2009
11. Vest RN*, Blanco RR, Valadri RR, Gutmann R, Dudley SC, London B, Zafari AM, **Bloom** HL, Influence of elevated BMI on ventricular arrhythmias in a veteran patient population with heart failure and internal cardioverter-defibrillators. European Society of Cardiology- Heart Failure Annual Scientific Sessions; Nice, France; May 30, 2009
12. **Bloom** H*, Lerner D; Constatin L; Delrugio DB; Hackett K; Kanuru NK; Rasekh. AIGISRx Anti-bacterial Envelope Retrospective Registry Results. Transcatheter Cardiovascular Therapeutics September 22 2009. (Oral Presentation) San Francisco, CA
13. Refaat MM*, Mehdi H; Halder I, Islam Z; Friehling M; Lieu J; Gutmann R, **Bloom** H, Dudley S, Ellinor P, Saba S, Shalaby A, Weiss D, McNamara D, Halder I, London B. Variations in Cardiac Calcium-Handling Genes are Associate with Ventricular Arrhythmias in Patients with Severe Cardiomyopathy HRS May 4 2011 (Oral Presentation)
14. **Bloom** H*, Cardiac Rhythm Management Device infections, old techniques meet new technology. HRS 2011. May (Oral Presentation)
15. Valadri R*, Veledar E, Gadesam R, Cross JA, Cardona S, Strayhorn G, **Bloom** HL, Delurgio DB, Butler J, Ofili E; Onwuanyi A, Is there a mortality benefit with Renin-Angiotensin System (RAS) inhibition in African Americans (AA) with heart failure with preserved ejection fraction (HFPEF) American College of Cardiology Annual Scientific Sessions, Chicago IL, March 2012
16. Valadri R*, Veledar E, Gadesam R, Cross JA, Cardona S, Strayhorn G, **Bloom** HL, Delurgio DB, Butler J, Ofili E; Onwuanyi A, Effect of Angiotensin Receptor Blocker (ARB) therapy on long

- term survival in African Americans (AA) with Heart Failure (HF). American College of Cardiology Annual Scientific Sessions, Chicago IL, March 2012
17. Refaat MM*, Alam SE, Habib RH, Al-Shaar L, Singh M, Gutmann R, **Bloom** H, Dudley S, Ellinor P, Saba S, Shalaby A, Weiss D, McNamara D, Halder I, London D, Heart rate effect as Predictor for mortality in patients with severe systolic Cardiomyopathy: Insights from the GRADE multicenter study. International Academy of Cardiology, 20th World Congress on Heart Disease, Vancouver, July 25, 2015
 18. Valadri R*, **Bloom** H, et al, Prevalence of Intense Systolic Blood Pressure Control in Unselected Real World Non-Diabetic Hypertensive Patients. AHA-QCOR conference, Arlington VA, April 2, 2017. (Poster Presentation)
 19. Valadri R*, **Bloom** H, et al, Temporal Trends in Electrical Dyssynchrony in Heart Failure with Preserved Ejection Fraction. HRS Scientific Sessions, May 12, 2017. (Poster Presentation)
 20. Ahmed, F; **Bloom H**;; Cooper ; Ellis C, Goette A, Greenspon A, Love CJ, Johansen J; Philippon F, Tarak JK, Lundqvist C, Krahn, A Oral presentation, Accepted, *CIED Infection Risk Score Validation Using US Health Claims Data* for presentation at European Heart Rhythm Association Congress, European Cardiology Society in Vienna, Austria from 29 to 31 March 2020
 21. Mehdi, H; Arayamudhan VR, Gutman, R; Breheny P; Morgan GM; Greiner AM; Bloom HL; Shalaby A; Weiss R; Dudley, SC; Saba, S; McNamera DM; Singh, M; Lubitz, S; Ellinor T; London B; *SNPs in Dipeptidyl Peptidase-like Protein-6 are Associated with Arrhythmia in Heart Failure Patients*. Heart Rhythm Society Annual Sessions May 2020 (Oral Presentation)
 22. Hanna H, Desai R, Sachdeva S, Singh S, Gangani K, Taha Y, Echols M, Paul TK, Berman A, **Bloom H**, Kumar G, Sachdeva R. Pulmonary artery injury in left atrial appendage closure device implantation: a systematic review of a potentially fatal complication. *European Society of Cardiology Congress 2020 Amsterdam, Netherlands August 2020*. (Pending, Oral Presentation)
 - 23.
- b. Regional:
1. Vest RN*, **Bloom** HL, African-Americans with Nonischemic cardiomyopathy have more ventricular arrhythmias than Caucasians and have higher levels of inflammatory and oxidative stress markers. ACC GA Chapter Annual Scientific Sessions, November 22, 2008

c. Institutional:

1. Shukrullah I*; **Bloom H**,; Vassiliades T, Langberg J, Vega D, Harrison D, Dudley S, Comparison of Markers of Oxidative Stress Present in Left Atrial Appendage Tissue from Subjects With and Without Atrial Fibrillation. Emory University, 3/17/2006. (Poster Presentation)
2. Jackson C*, Ali B, **Bloom H**, Zafari AM, Automatic External Cardiac Defibrillation Monitoring in cardiac Arrest. J Willis Hurst Internal Medicine Residency Program Annual Research Day, Emory University School of Medicine, 1/18/2007.
3. Valadri RV*, Gadesam R, McLraith T, Onwuanyi A, **Bloom HL**, Delurgio DB, Diastolic Dysfunction can predict ventricular arrhythmias in Sarcoidosis, Emory University, September 2010

25. Research Focus: Research interests 1. Risk factors for sudden cardiac death and atrial fibrillation, including the complex interactions of oxidative stress with arrhythmia and the relationship of diastolic dysfunction with arrhythmia 2. CRM (cardiac rhythm management) device infection risk reduction. 3. Autonomic Dysfunction and arrhythmia/syncope correlations.

26. Patents:

a. Issues:

1. Marker for Arrhythmia Risk: 111828-00156, VA ID#07-129

27. Grant Support:

a. Active Support

1. Federally Funded:

- i. NIH-R01 HL077398, 8/15/2004 to 2011 Primary PI Dr. Barry London. Co-PI for Emory site (1 of 2 sites for entire grant) Dr. Heather Bloom
*Awarded Direct: \$446,440. Percent of time: 5%
GRADE: **Genetic Risk Assessment of Defibrillator Events. Adult patients with depressed ejection fraction referred for internal cardioverter-defibrillator (ICD) placement will undergo 5+ year follow up for arrhythmia events and provide DNA samples for multiple evaluations of polymorphisms that lead to increased risk of arrhythmias. Inclusive dates: 2007-2012, private grant support 2012-current***

2. Contracts:

- i. ARTESIA- Apixaban for the Reduction of Thrombo-Embolism in Patients with Device-detected sub-clinical

atrial fibrillation, Site PI, Funded in part by: Bristol-Myers Squibb, Pfizer, Medtronic and the Canadian Institutes of Health Research, through the C-SPIN Network. 2019 ongoing

3. Put that heart failure trial with Priya that you just agreed to do here

b. Prior Support

- i. Grant- Pfizer Pharmaceuticals. Award Amount: \$75,000. Dr. Samuel Dudley, PI, Dr. Heather Bloom, Co-PI 2006-2010. (Sole PI after Dr. Dudley departed 2007) Single center trial. Atorvastatin Therapy for the Prevention of Atrial fibrillation (STOPAF) published 12/2010 (See CV publication # 12); Percent of time 2%
- ii. Education Grant: 2007. \$10,000. Sponsor: St. Jude Medical. This was an unlimited educational grant designed to support EP training for fellows and staff entirely at my discretion. Funds have been allocated to date for EP textbooks and educational conferences.
- iii. Emory University Research Committee (URC): Award amount: \$30,000 Bloom PI. 2007-2008. Observational clinical study examining co morbidities for mortality in ICD patients.
- iv. RIGHT (**R**hythm **I**D **G**oing **H**ead **T**o **H**ead) – Boston Scientific, Multicenter trial. Co-PI, site PI for Atlanta VAMC. Assessed arrhythmia discrimination in Guidant and Medtronic devices. 2005 -2008. Contact payment per patient visit, \$5000 Percent of time 1%.
- v. Sorin Group (ELA Medical). OPTION: 2008-2013 Multicenter trial, site PI for Atlanta VAMC. VA contract for payment per visit. Do ICD patients benefit from dual chamber ICD therapy- comparing ICD therapies with the PARAD algorithm? Contract: \$3592.
- vi. TyRX Pharmaceuticals: Sponsor two multicenter trials: I am the site PI for Atlanta VAMC. VA contract for payment per visit.
 - a. Centurion: inclusive dates: 2009 to 2014 Prospective observational trial examining the Aigis™ antimicrobial envelope effects on cardiac rhythm management device infections in Cardiac

- Resynchronization Therapy (CRT) devices.
Contract: \$5265 Percent of time:1%
- b. Citadel: inclusive dates 2009 to 2013: Prospective observational trial examining the Aigis™ antimicrobial envelope effects on cardiac rhythm management device infections in Internal-Cardioverter Defibrillator (ICD) infections. Contract \$5265 Percent of time: 1%.
- c. ANSAR: 2012 to 2015: Evaluating correlation of autonomic dysfunction with arrhythmia risk in Internal-Cardioverter Defibrillator (ICD) patients. Percent of time:1%

28. Bibliography:

- a. Published and accepted Research Articles (clinical, basic science, other) in peer reviewed refereed journals:
1. **Bloom H**, Glatter K, Shofofsky S, Gold M, Rashba E Letters regarding LQT, *Journal of Cardiovascular Electrophysiology* 13[7]:732 01 Jan 2002
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 5. **Bloom H**, Chiamvimonvat N, Whitcomb C, Glatter K. Malignant vasovagal syncope. *Circulation.* 2003 June 17; 107(23):2987-8. PubMed PMID: 12814986 Endeshaw YW,
 6. **Bloom HL**, Bliwise DL, Anasn F. Sleep disordered breathing and cardiovascular disease in the Bay Area Sleep Cohort. *Gerontology* 44:312 1 October 2004
 7. **Bloom H**, Heeke B, Leon A, Mera F, DeLurgio D, Beshai J, Langberg J; Chronic Renal Insufficiency and the Risk of Infection from Pacemaker or Defibrillator Surgery. *Pacing ClinElectrophysiol.* 2006 Feb; 29(2):142-5. PubMed PMID: 12814986
 8. **Bloom H**, Shukrullah I, Cuelar J, Lloyd M, Dudley Jr, S, Zafari M, Long-term survival after Successful In-hospital Arrest

- Resuscitation. *Am Heart J.* 2007 May 1153 (5):831-6. PubMed PMID: 16492298
9. Neuman R, **Bloom HL (co First Authors)**, Shukrullah I, Darrow LA, Kleinbaum D, Dudley SC. Oxidative Stress markers are associated with persistent atrial fibrillation. *Clinical Chemistry* June 28, 2007;53;1652-57 PubMed PMID: 17452161
 10. Endeshaw YW, **Bloom HL**, Bliwise DL. Sleep disordered breathing and cardiovascular disease in the Bay Area Sleep Cohort. *Sleep.* 2008 April 31(4):563-568 PubMed PMID: 17599958
 11. Ali B, **Bloom HL**, House D, Veledar E, Norval R, Dudley SC, Zafari AM. Automated External Cardioversion Defibrillation Monitoring in Cardiac Arrest: A Randomized Trial. *Trials* 2008 9:36. PubMed PMID: 18523216
 12. **Bloom HL**; Shukrullah I, Cuellar J, Veledar E, Gutmann R, London B, Dudley Jr. SC. Statins Decrease Oxidative Stress and ICD Therapies. *Cardiol Res Practic.* 2010; 2010:253803. Epub 2010 Mar 25. PubMed PMID: 20369058.
 13. Shukrullah I, Jang W, Vest RN, Dudley SC, **Bloom HL**. Left Atrial Enlargement Correlates with Inflammation and Oxidative Stress in Patients at High Risk for Atrial Fibrillation. *Journal of Clinical and Experimental Cardiology.* August 29, 2010
 14. **Bloom HL** Constantin L, Dan D, De Lurgio DB, El-Chami M, Ganz LI, Gleed KJ, Hackett FK, Kanuru NK, Lerner DJ, Rasekh A, Simons GR, Sogade FO, Sohail MR. Incidence of Implantation Success and Infection in Cardiovascular Implantable Electronic Device Procedures with the Aegis rx Anti-bacterial Envelope. *Pacing Clin Electrophysiol.* 2011 Feb; 34(2): 133-42. doi: 10.1111/j.1540-8159-2010.02931.x. Epub 2010 October 13. PubMed PMID: 20942819
 15. Negi S, Shukrullah I, Veledar E, **Bloom HL**, Jones D, Dudley S, Statin Therapy for the Prevention of Atrial Fibrillation Trial (SToP AF trial). *J Cardiovasc Electrophysiol.* 2011 Apr; 22(4):414-9. doi: 10.1111/j.1540-8167.2010.01925.x. Epub 2010 Oct 13. PMID: 20946227
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24. Zhang X, Yoon JY, Morley M, McLendon JM, Mapuskar KA, Gutmann R, Mehdi H, **Bloom HL**, Dudley SC, Ellinor PT, Shalaby AA, Weiss R, Tang WHW, Moravec CS, Singh M, Taylor AL, Yancy CW, Feldman AM, McNamara DM, Irani K, Spitz DR, Breheny P, Margulies KB, London B, Boudreau RL.

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 30. Smith JS , **Bloom HL** et Al The genomics of heart failure: design and rationale of the HERMES consortium.*ESC Heart Fail*. 2021 Dec;8(6):5531-5541. doi: 10.1002/ehf2.13517. Epub 2021 Sep 3.PMID: 34480422
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32. Smith JS , **Bloom HL** et als. "Mapping the aetiology of heart failure and its subtypes using human genetics" *Nature Genetics*. 2024

b. Invited Editorials

1. **Bloom, H.L.** Concise review of atrial fibrillation: treatment update considerations in light of AFFIRM and RACE. *Clin Cardiol*. 2004 Sep;27(9):495-500. PMID: 15471159
2. **Bloom HL** Beyond Beta-blockade: nerve growth factor and arrhythmia. *Heart Rhythm*, 2007 Sept;4(9):1214-5 2007 July 4 PMID 1776567
3. Wilson PW, **Bloom HL**. Caffeine Consumption and Cardiovascular Risks: Little Cause for Concern. *J Am Heart Assoc*. 2016 Jan 26;5(1). pii: e003089. doi: 10.1161/JAHA.115.003089.

c. Review Articles

1. **Bloom HL** Differential Entrainment Pacing, two great paces that pace great together. *Heart Rhythm* 2009 April;6(3):501-2 PMID 19324310
2. **Bloom HL** Treatment of Ventricular Tachycardia, consider ablation sooner. *F1000 Medicine Reports* 2009, 1:71 PMID 20948708
3. Jordan RJ; **Bloom HL** Prevention of bacterial infections in patients with cardiac implantable devices; old traditions meet new technology. *The Journal of Innovations in Cardiac Rhythm Management* 1 (2010):63-71
4. Hirsh DS; **Bloom HL** Clinical use of absorbable mesh envelope in cardiovascular devices at Implant, *Med Devices (Auckl)*. 2015 Jan 12;8:71-8. doi: 10.2147/MDER.S58278. eCollection 2015. Review. PMID:25624774

29. Manuals, videos, computer programs and other teaching aids:

- a. Clinical Electrophysiology Manual for EP staff (80 pages) 2006
- b. EP and ECG questions for Cardiology Fellows In-service Exam, 2008-2014
- c. PowerPoint presentations- 82 complete presentations prepared for fellows between 2005 and 2019 (Topics: Anti-arrhythmics, The Sicilian Gambit, Sotalol, Amiodarone for Atrial and Ventricular Arrhythmias, Pacemaker Timing cycles, Device Troubleshooting part 1 (and 2), SCDHeFT, EP Study Basics, EP Study Technology, Atrial Fibrillation Ablations, Diagnostic Maneuvers in SVT, etc. Can provide full list if desired)

30. Published Abstracts:

- a. Sabapathy R, **Bloom H**, Lewis W, Amsterdam E. Right Precordial and posterior chest leads do not augment detection of ischemia in the exercise electrocardiogram. *Circulation Supplement* (104);3474, 2001
- b. Glatter KA, Ackerman MJ, Van Hare GF, **Bloom H**, Dorostkar PC, Scheinman MM. Type and reproducibility of symptoms in a genotyped congenital Long QT patients. *JACC* 2002:39 (supplement A):117A
- c. Bliwise DL, **Bloom HL**, Endeshaw YE, Ansari FP. Sleep Apnea and Cardiovascular disease in the Bay Area Sleep Cohort. *AGS* 2004
- d. **Bloom HL**, Langberg JJ, Preoperative BNP levels Correlate with Degree of Fractional Improvement in Hall walk in Patients undergoing Cardiac resynchronization therapy (CRT). *JACC* 2005:45 (Supplement B1);321B
- e. **Bloom H**, Heeke B, Leon A, Mera F, De Lurgio D, Beshai J, Langberg JJ. Renal Insufficiency, a potent and previously unrecognized risk for infection after device implantation. *Heart Rhythm* 2005:4(5s)
- f. Newman RB, **Bloom HL**, Darrow LA, Kleinbaum D, Dudley jr. SC, Oxidative Stress but not inflammatory markers predict persistent atrial fibrillation. *Heart Rhythm* May 2006: 3(5):S302-3
- g. Jang W, Dudley jr. SC, **Bloom HL**, Left Atrial Enlargement Correlates with Inflammation and Oxidative Stress in Patients at high risk for atrial fibrillation. *JACC* 2007:49(9) Supplement A;819-7
- h. **Bloom H**, Shukrullah I, Cuellar J, Lloyd M, Dudley SC, Zafari AM. Long term survival after in-hospital cardiac arrest. *Heart Rhythm* 2007:4(5S) p03-7
- i. Ali B, **Bloom H**, Veledar E, Norval R, Dudley jr. SC, Zafari AM. Automated External Cardioversion Defibrillation Monitoring in Telemetry (moderated poster session, Best Original Resuscitation Science). *Circulation*, Oct 2007; 116: II_927.
- j. Shukrullah I, Cuellar J, Veledar E, **Bloom H**, Dudley jr. SC. Plasma Redox state and the recurrence of atrial fibrillation. *JACC* March 11, 2008; 51: A1-A34
- k. **Bloom HL**, Shukrullah I, Cuellar J, Veledar E, Guttman R, London B, Dudley jr. SC. Statins decrease oxidative stress and ICD events. *Heart Rhythm* 45(5) S May 2008.
- l. **Bloom HL**, Fan TM Using Ventricular Sense Response™ to optimize Biventricular Pacing in a patient with no atrial lead. *Heart Rhythm* 5(5S) May 2008.
- m. Ali B, Vest RN, **Bloom HL**, Veledar E, House D, Norvel R, Dudley SC jr, Zafari AM. Automated External Cardioversion/Defibrillation Monitoring in telemetry Patients: Poster presentation 14th World Conference on Heart Disease July 2008. Published online: http://www.cardiologyonline.com/wchd08/final_prog_sun.htm
- n. Fangiskakis J, Niles K, Grimley S, Guttman R, **Bloom HL**, Dudley SC, Ellinor P, Shalaby A, Weiss R, Saba S; MacNamere A. African-Americans with Congestive Heart Failure have more arrhythmias than

Caucasians independent of the SCN5A S1103Y Genotype. *Circulation* 2008;118:S_718.

- o. Vest RN, Gadesam R, Valadri R, **Bloom HL**, Effect of Gender on Patients with systolic heart failure: women have more ventricular arrhythmias than men. *JACC* 2009;53:A136
- p. Refaat M, Frangiskakis JM, Grimley S, Gutmann R, **Bloom HL**, Dudley SC, Ellinor P, Shalaby A, Weiss R; McNameara D, London B. The β 2-Adrenergic Gln27 polymorphism is associated with increased ventricular arrhythmias in patients with severe heart failure (moderated poster session) May 15, 2009. *Heart Rhythm* vol. 6(5S): MP 02-01
- q. **Bloom HL**, Vest RN, Blanco R, Valadri R, Shukrullah I, Gutmann R, London B, Dudley SC, Zafari AM. African-Americans with cardiomyopathy have more ventricular arrhythmias than Caucasians and have higher levels of inflammatory and oxidative stress markers (Oral Presentation). *Heart Rhythm* 6(5S) May 2009 S16-7
- r. Lerner D, **Bloom HL**, Constantin L, Delurgio DB, Hackett K, Kanuru NK, Rasekh A, Sogade FO. Aigis Rx Anti-bacterial envelope retrospective registry results. TCT Sept 22, 2009.
- s. Blanco RR, Vest RN, Valadri R, Li W, Austin H, Song Q, Dudley SC, London B, **Bloom HL**, Zafari AM. The relationship between the AGTR1-A1166C polymorphism with implantable cardiac defibrillator therapies in patients with chronic heart failure. *Circulation*. 2009;120:S1468.
- t. Mehdi H, Frangiskakis JM, Grimley S, Gutmann R, **Bloom HL**, Dudley SC, Ellinor PT, Shalaby A, Weiss R, Saba S, McNamara DM, London B. NOS1AP is associated with arrhythmias in a heart failure population with severe LV dysfunction. *Circulation*. 2009;120:S571-2.
- u. Aleong RG, Halder I, **Bloom HL**, Dudley SC, Ellinor PT, Saba S, Shalaby A, Weiss R, London B. 2010. Left Ventricular Dilatation Increases the Risk of Ventricular Arrhythmias [Abstract]. *Heart Rhythm*. Vol. 7, no. 5, Supplement: S427
- v. Valadri R, **Bloom H**, Gadesam R, Delurgio D, Jones D, Bhadriraju S. Obstructive Sleep Apnea is associated with worsened oxidative stress and treatment resistance in atrial fibrillation. *Journal of Cardiac Failure* 16(8) S1: S61 August 2010.
- w. Bavikati VV, Jordan JR, Manocha P, Langberg JL, Vest RN, **Bloom HL**, Lloyd MS. Underlying coronary artery disease potentiates the antiarrhythmic effect of dofetilide on atrial fibrillation. *JACC* 2010; 55;A8.E80.
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- y. Valadri R, Gadesam R, Bali C, McIlwraith R, Onwuanyi A, Delurgio D, **Bloom H**. Cardiac Sarcoidosis presenting as cardiac dyssynchrony and failure of cardiac resynchronization therapy. *JMCC* 51(3): S20; September 2011.
- z. Valadri R, Gadesam R, **Bloom H**, Olatidoye A, Onwuanyi A. Heart Failure with preserved ejection fraction complicating peripartum; phenotypic variant of peripartum cardiomyopathy. *JMCC* 51(3): S30; September 2011.
- aa. Refaat MM, Benhayon D, Batal O, Purohit A, Halder I, Mehdi H, Gutmann R, El Masry H, **Bloom HL**, Dudley SC, Ellinor PT, Shalaby AA, Weiss R, McNamara D, Saba S, London B. Fragmented Wide QRS on a 12-Lead Electrocardiogram Increases the Risk of Ventricular Arrhythmias in Patients with Severe Systolic Dysfunction. Presentation: American Heart Association Annual Scientific Sessions; November 13, 2011.
- bb. Dai S, Mehdi H, Halder I, Singh M, Gutmann R, **Bloom HL**, Dudley SC, Ellinor PT, Shalaby A, Weiss R, Nerbonne JM, London B, Splice Site Insertion in FGF12 is Associated with Ventricular Arrhythmias in Heart Failure Patients. Presentation: American Heart Association Annual Scientific Session; November 14, 2011.
- cc. Valadri R, Veledar E, Gadesam R, Cross JA, Cardona S, Strayhorn G, **Bloom HL**, Delurgio DB, Butler J, Ofili E, Onwuanyi A. The Association of High Risk Berlin Score with Nocturnal Sudden Cardiac Death in Systolic Heart Failure Patients with Implantable Cardioverter Defibrillators, Heart Rhythm Society Annual Scientific Sessions, May 9-12 2012
- dd. Valadri R, Veledar E, Gutmann R, **Bloom HL**, Dudley SC, London B, Evidence for the Disparity in Implantable Cardioverter Defibrillator Efficacy in Patients above 60 Years and below 60 Years, 16th Annual Scientific meeting of the Heart Failure Society of America, September 16, 2012
- ee. AlJaroudi WA, Refaat MM, Habib RH, Al-Shaar L, Gutmann R, **Bloom H**, Dudley S, Ellinor P, Saba S, Shalaby A; Weiss, D; McNamara D, Halder I, London D. Effect of Angiotensin Converting Enzyme Inhibitors and Receptor Blockers on Appropriate Implantable Cardiac Defibrillator Shock: Insights from the GRADE Multicenter Study, ACC 2014
- ff. London B, RB, Halder I, Andres Vargas-Estrada A, Comellas A, Johnson FL, Zabner J, Gutmann RA, **Bloom HL**, Dudley SC, Ellinor PT, Shalaby A, Weiss R. High Mortality in Cardiomyopathy Patients Heterozygous for the $\Delta 508$ CFTR Cystic Fibrosis Mutation, presented AHA 2016
- gg. Valadri R, **Bloom H**, et al. Prevalence of Intense Systolic Blood Pressure Control in Unselected Real World Non-Diabetic Hypertensive Patients, American College of Cardiology scientific sessions, 2017
- hh. Mehdi H, Boudreau RL, Gutman R, Breheny P, Morgan GM, Greiner AM, **Bloom HL**, Shalaby A, Weiss R, Dudley SC, Saba S; McNamara

DM, Singh M, Lubitz S, Ellinor T, London B, GWAS Identifies GPC6 as a Novel Predictor of Arrhythmia in Heart Failure, American Heart Association 2017

31. Other Publications:

- a. **Bloom** HL: Strategies for Preventing Cardiac Device Implant Infections: Interview with Heather **Bloom**, MD. *EP Lab Digest* 12/03/2009.
- b. Williams L; **Bloom** HL. Moderate Sedation Pioneers for Atrial Fibrillation Ablations *EP Lab Digest* 9/10/2010
- c. **Bloom** HL. Clinical and Industrial News. *EP Lab Digest* 5/2/2010

EP lab Digest is a peer-reviewed publication reviewed by Chief Editor Bradley Knight, Distinguished Professor of Cardiology EP Faculty Northwestern, Chicago IL, and the academic physicians of their Editorial Board. It is not recognized by PubMed.

- d. **Bloom, H**, Glatter, K. J Arrhythmia of the month by Kirby et al. *J Cardiovasc Electrophysiol.* 2002 Jul; 13(7):732; author reply 732.

32. Online, Peer Reviewed Electronic Publications:

- a. **Bloom** HL. Severe dyspnea on exertion. Cardiosource Web Site, American College of Cardiology Foundation and Elsevier, Inc. <http://www.accardio.org/cs/casestudies/initPres.asp?studyID=381>. July 16, 2003
- b. **Bloom**, HL Faculty of 1000 Medicine, 29 May 2008 <http://www.f1000medicine.com/article/id/1108934>
- c. **Bloom**, HL Faculty of 1000 Medicine, 26 August 2008 <http://www.f1000medicine.com/article/id/1119287>
- d. **Bloom**, HL Faculty of 1000 Medicine, 17 October 2008 <http://www.f1000medicine.com/article/id/1124221>
- e. **Bloom**, HL Faculty of 1000 Medicine, 16 January 2009 <http://www.f1000medicine.com/article/id/1148137>
- f. **Bloom** HL Faculty of 1000 Medicine, 19 April 2009 <http://www.f1000medicine.com/article/id/1158807>
- g. **Bloom** HL: Faculty of 1000 Medicine, 9 Nov 2009 <http://www.f1000medicine.com/article/id/1163698/evaluation>
- h. **Bloom** HL: Faculty of 1000 Medicine 6 Jan 2010 <http://f1000medicine.com/article/id/1347963/evaluation>
- i. **Bloom** HL: Faculty of 1000 Medicine 17 Feb 2010 <http://www.f1000medicine.com/article/id/1968975/evaluation>
- j. **Bloom** HL: Faculty of 1000 Medicine X May 2010 <http://www.f1000medicine.com/article/id/3185964/evaluation>
- k. **Bloom** HL: Faculty of 1000 Medicine 9 July 2010 <http://www.f1000medicine.com/article/id/3900956/evaluation>

- l. Bloom** HL: Faculty of 1000 Medicine 15 November 2010
<http://f1000.com/6119956>
- m. Bloom** HL: Faculty of 1000 Medicine 7 February 2011
<http://f1000.com/8159959>
- n. Bloom** HL: F1000 23 June 2011 <http://f1000.com/11466957>
- o. Bloom** HL: F1000 11 October 2011 <http://f1000.com/13357297>
- p. Bloom** HL: F1000 19 January <http://f1000.com/13474956>
- q. Bloom** HL: F1000 14 April 2012. <http://f1000.com/14264112>

33. Contributions Not Otherwise Noted:

- a.** Research experience in Ablation and Pacemaker implantation in porcine model, 2003-2005.
- b.** Research experience in Right Bundle Branch Ablation in a Canine Model, 2013.
- c.** Research experience in irrigated ablation catheters in a Porcine Model, July 2015.
- d.** Research experience with basket catheters in a Porcine Model, September 2015.
- e.** GLP (Good Laboratory Practice) training, September 2015.
- f.** Research experience in 3D mapping in a Porcine Model, June 2016
- g.** GLP (Good Laboratory Practice) training, T3 Labs October 10, 2019
- h.** Mapping, balloon catheter manipulation and venography in a porcine Model October 10, 15-16 2019
- i.** Glp update 2021 T3 labs
- j.** Multipole catheter testing in a porcine model December 11 2021 Biosense Webster
- k.** In-vivo GLP Evaluation of the AcQBlate Force Sensing System in a Chronic Swine Model January 13-14 / April 26-27 2022 Autus Medical
- l.** In Vivo GLP evaluation of post ablation lesions, LA exit block and PV venograms in a canine model December 7-8 2022