

## CURRICULUM VITAE

The Johns Hopkins University School of Medicine

(Signature)



(Typed Name) Brian Thomas Garibaldi, MD

\_\_3/1/2021\_\_

**DEMOGRAPHIC AND PERSONAL INFORMATION****Current Appointments**

2015-present Director, Advancing Bedside Cardiopulmonary Physical Exam Skills (ACE), Osler Medical Service, JHH  
 2016-present Associate Program Director, Osler Medical Housestaff Training Program  
 2017-present Medical Director, [Johns Hopkins Biocontainment Unit](#)  
 2017-present Co-lead, Education Core, Johns Hopkins Center for Diagnostic Excellence, Armstrong Institute for Patient Safety and Quality  
 2017-present Board Member, [Society of Bedside Medicine](#)  
 2018-present Member, Pulmonary-Allergy Drugs Advisory Committee (PADAC) of the Food and Drug Administration (FDA)  
 2018-present Associate Professor of Medicine and Physiology, Division of Pulmonary and Critical Care Medicine  
 2020-present Director, [COVID-19 Precision Medicine Center of Excellence](#)  
 2020-present Associate Professor of Health Sciences Informatics  
 2020-present Clinical Lead, [Johns Hopkins Coronavirus Resource Center](#)

**Personal Data**

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**Education and Training**

## Undergraduate

1999 BA, Anthropology, Harvard College, Cambridge, MA

## Doctoral/graduate

2004 MD, Johns Hopkins University School of Medicine, Baltimore, MD  
 2018 Master of Education in the Health Professions (MEHP), Johns Hopkins University School of Education, Baltimore, MD  
 2018 Post-Masters Certificate in Evidence-Based Teaching, Johns Hopkins University School of Education, Baltimore, MD

## Postdoctoral

2004-2005 Internship in Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  
 2005-2007 Resident in Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  
 2007-2008 Post-Doctoral Fellow, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  
 2008-2009 Assistant Chief of Service (Chief Resident), The Longcope Firm, Johns Hopkins University School of Medicine, Baltimore, MD  
 2009-2012 ! Post-Doctoral Fellow, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  
 Primary Mentor: Landon S. King, MD  
 2011 ! Johns Hopkins Faculty Development Program in Teaching Skills, Bayview Hospital, Baltimore, MD

**Professional Experience**

2012-2013 ! Instructor in Medicine, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University

|           |   |
|-----------|---|
| 2013-2014 | Director, Genes to Society Curriculum, Perdana University Graduate School of Medicine, Selangor, Malaysia |
| 2013-2014 | Assistant Clerkship Director, Perdana University Graduate School of Medicine, Selangor, Malaysia          |
| 2013-2018 | Assistant Professor of Medicine, Division of Pulmonary and Critical Care Medicine                         |
| 2016-2018 | Assistant Professor of Physiology   |

## PUBLICATIONS:

### Original Research [OR]

1. ! Weiss DJ, **Garibaldi BT**, Hauser MD. The production and perception of long calls by cotton-top tamarins (*Saguinus oedipus*): acoustic analyses and playback experiments. *J Comp Psychol*. 2001 Sep;115(3):258-71. PMID: 11594495 (senior thesis for undergraduate degree)
2. ! **Garibaldi B**, Conde-Martel A, O'Toole TP. Self-reported comorbidities, perceived needs, and sources for usual care for older and younger homeless adults. *J Gen Intern Med*. 2005 Aug;20(8):726-30. PMID: 16050882
3. ! **Garibaldi B**, Malani R, Yeh HC, Lipson E, Michell D, Bennett M, Moliterno A, McDevitt MA, Kickler TS. Estimating platelet production in patients with HIV-related thrombocytopenia using the immature platelet fraction. *Am J Hematol*. 2009 Oct 9. PMID: 19890906
4. ! Files DC, D'Alessio F, Johnston LF, Kesari P, Aggarwal N, **Garibaldi B**, Mock JR, Simmers JL, DeGorordo A, Murdoch J, Willis M, Patterson C, Tanskersley C, Mess L, Liu C, Delbono O, Furlow JD, Bodine S, Cohm R, King LS, Crow MT. A Critical Role for Muscle Ring Finger-1 in Acute Lung Injury Associated Skeletal Muscle Wasting. *Am J Resp Crit Care Med*. 2012 Apr 15;185(8):825-34. PMID: 22312013 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
5. ! D'Alessio FR, Tsushima K, Aggarwal NA, Files DC, **Garibaldi BT**, Mock JR, Eto Y, Avalos CR, Rodriguez JV, Reddy SP, Pearse DB, Sidhaye VK, Hassoun PM, Crow MT, King LS. Resolution of experimental lung injury by Monocyte-derived inducible nitric oxide synthase (iNOS). *Journal of Immunology*. 2012 Sep 1;189(5):2234-45. PMID: 228441172 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
6. ! \***Garibaldi BT**, D'Alessio FR, Mock JR, Files DC, Chau E, Eto Y, Drummond MB, Aggarwal NA, Sidhaye VK, King LS. Regulatory T cells Reduce Acute Lung Injury Fibroproliferation By Decreasing Fibrocyte Recruitment. *Am J Respir Cell Mol Biol*. 2013 Jan;48(1):35-43. PMID: 23002097 \*corresponding author
7. ! Aggarwal NR, D'Alessio FR, Eto Y, Chau E, Avalos CR, Waickman AT, **Garibaldi BT**, Mock JR, Files DC, Sidhaye VK, Polotsky VY, Powell J, Horton M, King LS. Macrophage adenosine receptor 2a (A2aR) protects against oxygen-induced augmentation of experimental lung injury. *Am J Respir Cell Mol Biol*. 2013 May;48(5):635-46. PMID: 23349051 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
8. ! Aggarwal NR, Chau E, **Garibaldi BT**, Mock JR, Sussan T, Rao K, Rao K, Menon AG, D'Alessio FR, Damarla M, Biswal S, King LS, Sidhaye VK. Aquaporin 5 regulates cigarette smoke induced emphysema by modulating barrier and immune properties of the epithelium. *Tissue Barriers*. 2013 Oct 1;1(4):e25248. PMID: 24665410 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
9. ! Aggarwal NR, Tsushima K, Eto Y, Tripathi A, Mandke P, Mock JR, **Garibaldi BT**, Singer BD, Sidhaye VK, Horton MR, King LS, D'Alessio FR. Immunological Priming Accelerates Resolution of Lung Inflammation by Macrophage-derived IL-10. *J Immunol*. 2014 May 1;192(9):4453-64. PMID: 24688024 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
10. Mock JR, **Garibaldi BT**, Aggarwal NR, Jenkins J, Limjunyawong N, Singer BD, Chau E, Rabold R, Files DC, Sidhaye V, Mitzner W, Wagner EM, King LS, D'Alessio FR. Foxp3+ regulatory T cells promote lung epithelial proliferation. *Mucosal Immunol*. 2014 Nov;7(6):1440-51. PMID: 24850425 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
11. Singer, BD, Mock JR, Aggarwal NR, **Garibaldi BT**, Sidhaye VK, Florez MA, Chau E, Gibbs KW, Mandke P, Tripathi A, Yegnasubramanian S, King LS, D'Alessio DR. Regulatory T Cell DNA Methyltransferase Inhibition Accelerates Resolution of Lung Inflammation. *Am J Respir Cell Mol Biol*. May;52(5):641-52. PMID: 25295995 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
12. Files DC, Liu C, Pereyra A, Wang ZM, Aggarwal NR, D'Alessio FR, **Garibaldi BT**, Mock JR, Singer BD, Feng X, Yammani RR, Zhang T, Lee AL, Philpott S, Lussier S, Purcell L, Chou J, Seeds M, King LS, Morris PE, Delbono O. Therapeutic exercise attenuates neutrophilic lung injury and skeletal muscle wasting. *Sci Transl Med*. 2015 Mar 11;7(278). PMID: 25761888 (role: conducting of experiments, data analysis and interpretation, manuscript editing)
13. D'Alessio F, Craig J, Singer B, Files DC, Mock J, **Garibaldi BT**, Fallica J, Tripathi A, Mandke P, Gans J, Limjunyawong N, Sidhaye V, Heller N, Mitzner W, King LS, Aggarwal N. Enhanced Resolution of Experimental ARDS through IL-4-Mediated Lung Macrophage Reprogramming. *Am J Physiol Lung Cell Mol Physiol*. 2016, April 15; 310(8) PMID: 26895644 (role: conducting of experiments, data analysis and interpretation, manuscript editing)

14. **\*Garibaldi BT**, Kelen GD, Brower RG, Bova G, Ernst N, Reimers M, Langlotz R, Gimburg A, Iati M, Smith C, MacConnell S, James H, Lewin JL, Trexler P, Black MA, Lynch C, Clarke W, Marzinske MA, Sokoll L, Carroll KC, Parrish NM, Dionne K, Biddison ELD, Gwon HS, Sauer L, Hill P, Newton SM, Garrett MR, Miller RG, Perl TM, Maragakis LL. The Creation of a Biocontainment Unit at a Tertiary Care Hospital: The Johns Hopkins Medicine Experience. *Annals of the American Thoracic Society*, 2016 May; 13(5): 600-608. PMID: 27057583 [SI/QI]  
\*corresponding author
15. Cater SW, Krishnan L, Grimm L, **Garibaldi BT**, Green I. Developing an Introductory Radiology Clerkship at Perdana University Graduate School of Medicine in Kuala Lumpur, Malaysia. *Health Professions Education*, 2017 Dec; 3(2), 113-117.
16. **\*Garibaldi BT**, Niessen T, Gelber AC, Clark B, Lee J, Madrazo JA, Manesh RS, Apfel A, Lau BD, Liu G, Canzoniero JV, Sperati CJ, Yeh HC, Brotman DJ, Traill TA, Cayea D, Durso SC, Stewart RW, Corretti MC, Kasper EK, Desai SV. A Novel Bedside Cardiopulmonary Physical Diagnosis Curriculum for Internal Medicine Postgraduate Training. *BMC Medical Education*, 2017 Oct; 17(182). PMID 28985729 \*corresponding author
17. Sauer LM, Drewry III D, Shaw-Saliba K, Therkorn J, Pilholski T, Rainwater-Lovett K, **Garibaldi BT**. A Novel Approach to Identify Potential Provider and Environmental Contamination in a Clinical Biocontainment Unit Using Aerosolized Pathogen Simulants. *Health Security*, 2018 Mar/Apr; 16(2). PMID 29624490
18. Therkorn J, Drewry III D, Pilholski T, Shaw-Saliba K, Bova G, Maragakis L, **Garibaldi BT**, Sauer LM. Impact of Air Handling System Exhaust Failure on Dissemination Pattern of Simulant Pathogen Particles in a Clinical Biocontainment Unit. *Indoor Air*, 2018, Sep 7. PMID: 30192404
19. **!Garibaldi BT**, Ruparelia C, Shaw-Saliba K, Sauer LM, Maragakis LL, Glancey M, Subah M, Nelson AR, Wilkason C, Litwin L, Osei P, Yazdi Y. A novel PPE coverall was rated higher than standard Ebola PPE in terms of comfort, mobility and perception of safety when tested by healthcare workers in Liberia and in a US Biocontainment Unit. *Am J Infect Control*, 2018, Oct 6. PMID: 30301656
20. Kogutt B, Sheffield J, Maragakis LL, Golden C, **Garibaldi BT**. Simulation of a Spontaneous Vaginal Delivery and Neonatal Resuscitation in a Biocontainment Unit. *Health Security*, 2019 Jan/Feb; 17(1):18-26. PMID: 30779606
21. Sauer LM, Romig M, Andonian J, Flinn JB, Hynes N, Maloney R, Maragakis LL, **Garibaldi BT**. Application of the Incident Command System to the Hospital Biocontainment Unit Setting. *Health Security*, 2019 Jan/Feb; 17(1):27-34. PMID:30779610
22. Boyce A, **Garibaldi BT**. Host genetic information about high-consequence infections: emerging science, anticipatory ethics. *Health Security*, 2019 Jan/Feb; 17(1):62-68. PMID:30724614
23. Andonian J, Galusha K, Maragakis LL, **Garibaldi BT**. The impact of high-level isolation units beyond high consequence pathogen preparedness. *Health Security*, 2019 Jan/Feb; 17(1):69-73. PMID: 30779609
24. Goyal A, **Garibaldi B**, Liu G, Desai S, Manesh R. Morning report innovation: Case Oriented Report and Exam Skills. *Diagnosis (Berl)*. 2019 Mar 22. PMID: 30901311
25. D'Souza T, Rosen M, Bertram AK, Apfel A, Desai SV, **Garibaldi BT\***. The use of a real-time location system (RTLS) to understand resident location in an academic medical center. *J Grad Med Educ*, 2019 Jun;11(3):324-327. PMID: 31210865 (\*corresponding author)
26. Therkorn J, Drewry D, Andonian J, Benishek L, Billman C, Forsyth ER, **Garibaldi BT**, Nowakowski E, Rainwater-Lovett K, Sauer L, Schiffhauer M, Maragakis LL. 2019. Development and Comparison of Complementary Methods to Study Potential Skin and Inhalational Exposure to Pathogens During Personal Protective Equipment Doffing. *Clinical Infectious Diseases*, 2019 Oct; 69, Issue Supplement\_3, S231–S240. PMID: **31517983**
27. Andonian J, Kazi S, Therkorn J, Benishek L, Billman C, Schiffhauer M, Nowakowski E, Osei P, Gurses AP, Hsu YJ, Drewry D, Forsyth ER, **Garibaldi BT**, Rainwater-Lovett K, Trexler P, Maragakis LL. 2019. Effect of an Intervention Package and Teamwork Training to Prevent Healthcare Personnel Self-Contamination During Personal Protective Equipment Doffing. *Clinical Infectious Diseases*, 2019 Oct; 69, Issue Supplement\_3, S248–S255. PMID: 31517976
28. **!Clark BW**, Lee YZ, Niessen T, Desai SV, **Garibaldi BT**. Assessing physical examination skills using direct observation and volunteer patients. *Diagnosis*. 13 March 2020. PMID: 32167926
29. Lin CT, Czarny MJ, Hussien A, Hasan RK, **Garibaldi BT**, Fishman EK, Resar JR, Zimmerman SL. Fibrotic Lung Disease at CT Predicts Adverse Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement. *Radiology: Cardiothoracic Imaging*. Volume 2, Issue 2, Apr 1 2020.
30. Flinn JB, Benza JJ, Sauer LM, Sulmonte C, Hynes NA, **Garibaldi BT\***. (2020). "The Risk of Not Being Ready: A Novel Approach to Managing Constant Readiness of a High-Level Isolation Unit During Times of Inactivity." *Health Security* 18(3): 212-218. PMID: 32559152 (\*corresponding author)
31. Flinn JB, Hynes NA, Sauer LM, Maragakis LL, **Garibaldi BT\***. The role of dedicated biocontainment patient care units in preparing for COVID-19 and other infectious disease outbreaks. *Infect Control Hosp Epidemiol*. 2020 Sep 4:1-14. doi: 10.1017/ice.2020.451. Online ahead of print. PMID: 32883382 (\*corresponding author)

32. Gupta S, Hayek SS, Wang W, et al (STOP COVID Investigators\*). Factors Associated With Death in Critically Ill Patients With Coronavirus Disease 2019 in the US. *JAMA Intern Med.* 2020 Jul 15. PMID 32667668. (\* BTG is a site co-investigator for STOP COVID).
33. Beigel JH, Tomashek KM, Dodd LE, et al (ACTT-1 Study Group\*). Remdesivir for the Treatment of Covid-19 - Preliminary Report [published online ahead of print, 2020 May 22]. *N Engl J Med.* 2020 PMID: 32445440 (\*BTG is a site co-investigator for ACTT-1)
34. **Garibaldi BT\***, Fiksel J, Muschelli J, Robinson ML, Rouhizadeh M, Perin J, Schumock G, Nagy P, Gray JH, Malapati H, Ghobadi-Krueger M, Niessen TM, Kim BS, Hill PM, Ahmed MS, Dobkin ED, Blanding R, Abele J, Woods B, Harkness K, Thiemann DR, Bowring MG, Shah AB, Wang MC, Bandeen-Roche K, Rosen A, Zeger SL, Gupta A. Patient Trajectories Among Persons Hospitalized for COVID-19 : A Cohort Study. *Ann Intern Med.* 2020 Sep 22. doi: 10.7326/M20-3905. Epub ahead of print. PMID: 32960645. (\*corresponding author) (JH-CROWN Registry)
35. Kreps S, Prasad S, Brownstein JS, Hswen Y, **Garibaldi BT**, Zhang B, Kriner DL. Factors Associated With US Adults' Likelihood of Accepting COVID-19 Vaccination. *JAMA Netw Open.* 2020;3(10):e2025594. doi:10.1001/jamanetworkopen.2020.25594 PMID: 33079199
36. Geller G DP, Thio CL, Mathews D, Kahn JP, Maragakis L, **Garibaldi BT**. Genomics in the Era of COVID-19: Ethical Implications for Clinical Practice and Public Health. *Genome Medicine.* 2020 Nov 9; 12(1). PMID: 33168072
37. Hayek SS, Brenner SK, Azam TU, and the STOP-COVID Investigators.\* In-hospital cardiac arrest in critically ill patients with covid-19: multicenter cohort study. *BMJ.* 2020 Sep 30;371:m3513. PMID: 32998872. (\*BTG is a site co-investigator for STOP COVID)
38. Kalil AC, Patterson TF, Mehta AK, et al (ACTT-2 Study Group\*). Baricitinib plus Remdesivir for Hospitalized Adults with Covid-19 [published online ahead of print, 2020 December 11]. *N Engl J Med.* 2020 (\*BTG is a site co-investigator for ACTT-2) PMID: 33306283
39. Ignatius EH, MD, MSc, Wang K, Karaba A, Robinson M, Avery RK, Blair P, Chida N, Jain T, Petty BG, Siddiqui Z, Melia MT, Auwaerter PG, Xu Y, **Garibaldi BT**. Tocilizumab for the treatment of COVID-19 among hospitalized patients: A matched retrospective cohort analysis [published online ahead of print, 2020 December 28]. *OFID.* 2020 (JH-CROWN Registry)
40. Casciola-Rosen L, Thiemann DR., Andrade F, Trejo Zambrano MI, Hooper JE, Leonard E, Spangler J, Cox AL, Machamer C, Sauer L, Laeyendecker O, **Garibaldi BT**, Ray SC, Mecoli C, Christopher-Stine L, Gutierrez-Alamillo L, Yang Q, Hines D, Clarke W, Rothman RE, ...Rosen A. (2020). IgM autoantibodies recognizing ACE2 are associated with severe COVID-19. *medRxiv : the preprint server for health sciences*, 2020.
41. Avery, R.K., Chiang, T.P.-Y., Marr, K.A., Brennan, D.C., Sait, A.S., **Garibaldi, B.T.**, Shah, P., Ostrander, D., Mehta Steinke, S., Permpalung, N., Cochran, W., Makary, M.A., Garonzik-Wang, J., Segev, D.L. and Massie, A.B. (2021), Inpatient COVID-19 Outcomes in Solid Organ Transplant Recipients Compared to Non-Solid Organ Transplant Patients: A Retrospective Cohort. *American Journal of Transplantation* <https://doi.org/10.1111/ajt.16431> [published online ahead of print, 2020, December 7] PMID: 33284498 (JH-CROWN Registry).
42. Bowring MG, Wang Z, Xu Y, Betz J, Muschelli J, **Garibaldi BT\***, Zeger SL. Outcome Stratified Analysis of Biomarker Trajectories for Patients with SARS-CoV-2 Infection. *Am J of Epidemiology.* 2021. In press.\*Co-senior author. (JH-CROWN Registry)
43. Andersen KM, Mehta HB, Palamuttam N, Ford D, **Garibaldi BT**, Auwaerter PG, Segal J, Alexander GC. Association Between Chronic Use of Immunosuppressive Drugs and Clinical Outcomes From Coronavirus Disease 2019 (COVID-19) Hospitalization: A Retrospective Cohort Study in a Large US Health System, *Clinical Infectious Diseases.* [published online ahead of print, 2021 Jan 7] (JH-CROWN Registry) PMID: 33410884
44. The National COVID Cohort Collaborative: Clinical Characterization and Early Severity Prediction. Tellen D. Bennett, Richard A. Moffitt, Janos G. Hajagos, Benjamin Amor, Adit Anand, Mark M. Bissell, Katie Rebecca Bradwell, Carolyn Bremer, James Brian Byrd, Alina Denham, Peter E. DeWitt, Davera Gabriel, **Brian T. Garibaldi**, Andrew T. Girvin, Justin Guinney, Elaine L. Hill, Stephanie S. Hong, Hunter Jimenez, Ramakanth Kavuluru, Kristin Kostka, Harold P. Lehmann, Eli Levitt, Sandeep K. Mallipattu, Amin Manna, Julie A. McMurry, Michele Morris, John Muschelli, Andrew J. Neumann, Matvey B. Palchuk, Emily R. Pfaff, Jingjing Qian, Nabeel Qureshi, Seth Russell, Heidi Spratt, Anita Walden, Andrew E. Williams, Jacob T. Wooldridge, Yun Jae Yoo, Xiaohan Tanner Zhang, Richard L. Zhu, Christopher P. Austin, Joel H. Saltz, Ken R. Gersing, Melissa A. Haendel, Christopher G. Chute, N3C Consortium. ! medRxiv 2021.01.12.21249511; doi: <https://doi.org/10.1101/2021.01.12.21249511> !
45. Boulanger M, Molina E, Wang K, Kickler T, Xu Y, **Garibaldi BT**. Peripheral Plasma Cells Associated with Mortality Benefit in Severe COVID-19: A Marker of Disease Resolution. *Am J Med*, in press, 2021. (JH-CROWN Registry)
46. Gerber JE, Geller G, Boyce A, Maragakis L, **Garibaldi, BT**. Genomics in patient care and workforce decisions in high-level isolation units: A survey of healthcare workers. *Health Security*, in press, 2021.

47. !Al-Samkari H, Gupta S, Leaf RK, Wang W, Rosovsky RP, Brenner SK, Hayek SS, Berlin H, Kapoor R, Shaefi S, Melamed ML, Sutherland A, Radbel J, Green A, **Garibaldi BT**, Srivastava A, Leonberg-Yoo A, Shehata AM, Flythe JE, Rashidi A, Goyal N, Chan L, Mathews KS, Hedayati SS, Dy R, Toth-Manikowski SM, Zhang J, Mallappallil M, Redfern RE, Bansal AD, Short SAP, Vangel MG, Admon AJ, Semler MW, Bauer KA, Hernán MA, Leaf DE. Thrombosis, Bleeding, and the Observational Effect of Early Therapeutic Anticoagulation on Survival in Critically Ill Patients With COVID-19. *Ann Intern Med.* 2021 Jan 26. doi: 10.7326/M20-6739. Epub ahead of print. PMID: 33493012.
48. !Karaba SM, Jones G, Helsel T, Smith LL, Avery R, Dzintars K, Salinas AB, Keller SC, Townsend JL, Klein E, Amoah J, **Garibaldi BT**, Cosgrove SE, Fabre V. Prevalence of Co-infection at the Time of Hospital Admission in COVID-19 Patients, A Multicenter Study. *Open Forum Infect Dis.* 2020 Dec 21;8(1). PMID: 33447639 (JH-CROWN Registry).
49. !**Garibaldi BT**, Wang K, Robinson ML, Zeger SL, Bandeen-Roche K, Wang MC, Alexander GC, Gupta A, Bollinger R, Xu Y. Comparison of Clinical Improvement of Treatment With or Without Remdesivir Among Hospitalized Patients With COVID-19. *JAMA Open Network*, in press (JH-CROWN Registry).
50. Wongvibulsin S, **Garibaldi BT**, Antar AR, Wen J, Wang MC, Gupta A, Bollinger R, Xu Y, Wang K, Betz JF, Muschelli J, Roche KB, Zeger SL, Robinson ML. Development of Severe COVID-19 Adaptive Risk Predictor (SCARP), a calculator to predict severe disease or death in hospitalized patients with COVID-19. *Ann Intern Med.* 2021 Mar 2. doi: 10.7326/M20-6754. Online ahead of print. PMID: 33646849 (JH-CROWN Registry).
51. Jeffers J, Bord S, Hooper J, Cayea D, **Garibaldi BT**. End of Life Care: A Multimodal and Comprehensive Curriculum for Graduating Medical Students Utilizing Experiential Learning Opportunities. *Med Ed Portal*, in press.
52. !Brenner DS, Liu GY, Omron R, Tang O, **Garibaldi BT**, Fong TC. Diagnostic accuracy of lung ultrasound for SARS-CoV-2: a retrospective cohort study. *Ultrasound J.* 2021 Mar 1;13(1):12. PMID: 33644829.
53. !Kalil AC, Patterson TF, Mehta AK, et al.; ACCT-2 Study Group Members\*. Baricitinib plus Remdesivir for Hospitalized Adults with Covid-19. *N Engl J Med.* 2021 Mar 4;384(9):795-807. doi: 10.1056/NEJMoa2031994. Epub 2020 Dec 11. PMID: 33306283; PMCID: PMC7745180 (\*BTG is a site co-investigator for ACTT-2).
54. Hao S, DiLallo A, Murphy RR, Taylor RH, **Garibaldi BT**, Krieger A. Physical human–robot interaction for clinical care in infectious environments. *Nature Machine Intelligence*. In press.
55. !Kotwal S, Fanai M, Fu W, Wang Z, Bery AK, Omron R, Tevzadze N, Gold D, **Garibaldi BT**, Wright SM, Newman-Toker DE. Real-world virtual patient simulation to improve diagnostic performance through deliberate practice: a prospective quasi-experimental study. *Diagnosis (Berl).* 2021 Mar 5. doi: 10.1515/dx-2020-0127. Epub ahead of print. PMID: 33675203.

#### Review Articles [RA]

1. ! **Garibaldi BT**, Illei P, Danoff S. Bronchiolitis. *Immunology and Allergy Clinics of North America.* 2012 Nov; 32(4):601-619. PMID: 23102068
2. ! **Garibaldi BT** and Danoff SD. Symptom-based management of the Idiopathic Interstitial Pneumonias. *Respirology*, 2016 Nov;21(8):1357-1365. PMID: 26450007
3. ! **Garibaldi BT** and Chertow DS. High-Containment Pathogen Preparation in the Intensive Care Unit. *Infect Dis Clin North Am.* 2017 Sep;31(3):561-576. PMID: 28779833
4. ! Chen Y, Klein SL, **Garibaldi BT**, Li H, Wu C, Osevala NM, Li T, Margolick JB, Pawelec G, Leng SX. [Aging in COVID-19: Vulnerability, immunity and intervention.](#) *Ageing Res Rev.* 2020 Oct 30:101205. doi: 10.1016/j.arr.2020.101205. Online ahead of print. PMID: 33137510

#### Additional Articles Published from the Johns Hopkins COVID-19 Precision Medicine Center of Excellence JH-CROWN Registry (B. Garibaldi, Director and PI)

1. ! Metkus TS, Sokoll LJ, Barth AS, et al. Myocardial Injury in Severe COVID-19 Compared to Non-COVID Acute Respiratory Distress Syndrome. *Circulation.* 2020 Nov 13. Online ahead of print
2. ! Shade JK, Doshi AN, Sung E, Popescu DM, Minhas AS, Gilotra NA, Aronis KN, Hays AG, Trayanova NA. COVID-HEART: Development and Validation of a Multi-Variable Model for Real-Time Prediction of Cardiovascular Complications in Hospitalized Patients with COVID-19. *medRxiv : the preprint server for health sciences*, 2021.

#### Case Reports [CR]

1. ! **Garibaldi B**, Dunbar K. An ominous finding. *Am J Med.* 2006 Mar;119(3):238-40. PMID:16490467
2. ! **Garibaldi B**, Zaas D. An unusual case of cardiac amyloidosis. *J Gen Intern Med.* 2007 Jul;22(7):1047-52. PMID:

17447098

3. ! **Garibaldi B**, Schulman S. Tropical rhythm. *Am J Med.* 2007 Jul;120(7):584-5. PMID: 17602928
4. ! **Garibaldi B**, King KE, Jaffe JM, Moliterno AR. Hypersplenism induced by splenic vein ligation. *Am J Hematol.* 2008 Mar;83(3):242-4. PMID: 17874452
5. ! **Garibaldi BT**, Cameron SJ, Choi M. Pseudohyponatremia in a patient with HIV and hepatitis C coinfection. *J Gen Intern Med.* 2008 Feb;23(2):202-5. PMID: 17994269
6. ! Cho E, **Garibaldi BT**, Hager D. A 41-year old woman with AIDS and recurrent Pneumonia. *Chest.* 2010 Jan;137(1):224-7. PMID: 20051409
7. ! Larocca CA, McEvoy JW, Ellis CL, Junkins-Hopkins J, Kolb T, Baer AN, **Garibaldi BT**. Schnitzler's syndrome associated with pancreatitis: a disease of IL-1 dysregulation. *Clin Rheumatol.* 2012 Jan;31(1):169-74. PMID: 21710158.
8. ! Paulin LM, West NE, Akulian JA, **Garibaldi BT**. Endobronchial Tuberculosis with Anthracofibrosis. *Am J Respir Crit Care Med.* 2014 Jul 15;190(2):226. PMID: 25025354
9. ! Hammami MB, **Garibaldi B**, Shah P, Liu G, Jain T, Chen PH, Kim AK, Avdic E, Petty B, Strout S, Fine DM, Niranjan-Azadi A, Garneau WM, Cameron AM, Monroy Trujillo JM, Gurakar A, **Avery R**. Clinical Course of COVID-19 in a Liver Transplant Recipient on Hemodialysis and Response to Tocilizumab Therapy: A Case Report. *Am J Transplant.* 2020 May 2. PMID: 32359210
10. ! Minhas AS, Scheel P, **Garibaldi BT**, Liu G, Horton M, Jennings M, Jones SR, Michos ED, Hays AG. [Takotsubo Syndrome in the Setting of COVID-19 Infection.](#) *JACC Case Rep.* 2020 May 1.

### Book Chapters, Monographs [BC]

1. ! **Garibaldi B** and Feller-Kopman D. Use of Ultrasound for Central Venous Access. In Bolliger CT, et al, eds. *Clinical Chest Ultrasound: From the ICU to the Bronchoscopy Suite.* Karger: Basel, Switzerland, 2009.
2. ! **Garibaldi B**. Atrial Fibrillation and Atrial Flutter. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
3. ! **Garibaldi B**. Approach to the Pulmonary Evaluation. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
4. ! **Garibaldi B**. Pneumonia. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
5. ! **Garibaldi B**. Approach to the Gastrointestinal Evaluation. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
6. ! **Garibaldi B**. Hyponatremia. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
7. ! **Garibaldi B**. Hyperkalemia. In Garibaldi B, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
8. ! **Garibaldi BT** and Danoff SD. Interstitial Lung Diseases/Diffuse Parenchymal Lung Diseases. In *Principles and Practice of Hospital Medicine.* New York: McGraw-Hill, 2015.
9. ! Reimers M, Hughes JA, and **Garibaldi BT**. Staffing. In Hewlett A, Murthy K and Rehka A, eds. *Bioemergency Planning: A Guide for Healthcare Facilities.* New York: Springer, 2018.
10. ! **Garibaldi BT**, Conger NG, Withers MR, Hatfill SJ, Gutierrez-Nunez JJ, Christopher GW. Aeromedical Evacuation of Patients with Contagious Infections. In Hurd WW and Beninati W, eds. *Aeromedical Evacuation: Management of Acute and Stabilized Patients.* New York: Springer, 2019.

### Books, Textbooks [BK]

1. ! **Garibaldi B**, ed. *Patient Encounters: The Internal Medicine Workup.* Philadelphia: Lippincott Williams & Wilkins, 2009.
2. ! **Garibaldi B**, ed. *Pulmonary and Critical Care Section. The Johns Hopkins Internal Medicine Board Review: Certification and Recertification: Expert Consult, 5<sup>th</sup> edition.* Philadelphia: Elsevier, 2015.
3. ! **Garibaldi BT**, ed. *Clinical Examination. Medical Clinics of North America, Volume 102 Issue 3.* Philadelphia: Elsevier, 2018.
4. ! *Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 19th Edition / Edition 20.* In press.

### Expert Opinion

1. ! Russell S and **Garibaldi BT**. The Other Sylvian Fissure: Exploring the Divide Between Traditional and Modern Bedside Rounds. *South Med J*, 2016 Dec;109(12):747-749. PMID: 27911965 [Expert Opinion]
2. ! **Garibaldi BT** and Olson APJ. The Hypothesis Driven Physical Exam. *Med Clin North Am*. 2018 May;102(3). PMID: 29650065 [Expert Opinion]
3. ! **Garibaldi, BT**. The Clinical Examination in 21<sup>st</sup> Century Medicine. *Med Clin North Am*. 2018 May;102(3). PMID: 29650078 [Expert Opinion]
4. ! Omron R, Kotwal S, **Garibaldi BT**, Newman-Toker DE. The Diagnostic Performance Feedback “Calibration Gap”: Why Clinical Experience Alone Is Not Enough to Prevent Serious Diagnostic Errors. *AEM Education and Training*. 2018 Oct; 2(4): 339-342.
5. ! **Garibaldi BT**, Kugler J, Goyal A, Ozdalga E, Niessen T, Liu G, Manesh R, Desai S, Elder A. The physical examination, including point of care technology, is an important part of the diagnostic process and should be included in educational interventions to improve clinical reasoning. *Diagnosis (Berl)*. 2018 Oct 30. PMID: 30375346
6. ! **Garibaldi BT** and Maragakis LL. Ebola outbreak reminds us that we need pandemic preparedness. *The Hill*. 2019 Feb 4.
7. ! **Garibaldi BT**, Russell SW. Strategies to Avoid the "Hemolyzed" Physical Examination. *JAMA Intern Med*. 2019 Jul 1;179(7):1000. PMID 31260013
8. ! Russell SW, Desai SV, **Garibaldi BT**. Burnout: A Crisis Among Physicians in Training. *The Baltimore Sun*, June 20, 2019.
9. ! **Garibaldi BT**, Zaman J, Artandi MK, Elder AT, Russell SW. Reinvigorating the clinical exam for the 21<sup>st</sup> century. *Polish Archives of Internal Medicine*, November 28, 2019.
10. ! Jacobsen AP, Khiew YC, Murphy SP, Lane CM, **Garibaldi BT**. The Modern Physical Exam – A Transatlantic Perspective from the Resident Level. *Teaching and Learning in Medicine*. 24 Feb 2020.
11. ! Russell SW, **Garibaldi BT**, Elder AT, Verghese A. The power of touch. *The Lancet*. 4 April 2020.
12. Russell SW, Desai SV, O'Rourke P, Ahuja N, Patel A, Myers CG, Zulman D, Sateia HF, Berkenblit GV, Johnson EN, **Garibaldi BT**. The genealogy of teaching clinical reasoning and diagnostic skill: the GEL Study. *Diagnosis (Berl)*. 2020 Mar 9. PMID: 32146439
13. Russell SW, Ahuja N, Patel A, O'Rourke P, Desai SV and **Garibaldi BT**. Peabody's Paradox: Balancing Patient Care and Medical Education in a Pandemic. *J Grad Med Educ*. 2020, 12 (3): 264–268. PMID: 32595841
14. Goldhaber-Fiebert SN, Greene JA, **Garibaldi BT**. Low-flow nasal cannula and potential nosocomial spread of COVID-19. *British Journal of Anaesthesia*. 2020 May 17. PMID: 32425208
15. Ehmann MR, Zink EK, Levin AB, Suarez JI, Belcher HM, Daugherty Biddison EL, Doberman DJ, D'Souza K, Fine DM, **Garibaldi BT**, Gehrie EA, Golden SH, Gurses AP, Hill PM, Hughes MT, Kahn J, Koch CG, Marx JJ, Meisenberg BR, Natterman J, Rushton CH, Sapirstein A, Selinger SR, Stephens RS, Toner ES, Unguru Y, van Stone M, Kachalia A. Operational recommendations for scarce resource allocation in a public health crisis. *Chest*. 2020 Sep 26. PMID: 32991873
16. Su H, Di Lallo A, Murphy RR, Taylor RH, **Garibaldi BT**, Krieger A. Physical Human-Robot Interaction for Clinical Care in Infectious Environments. *Nature Machine Intelligence*, in press.

## Media Releases or Interviews

| Date !      | Media info and details  |
|-------------|---|
| 1/24/2020 ! | Interviewed by Associated Press. <a href="#">Too soon to tell if new virus as dangerous as SARS cousin</a> (online story).  |
| 1/24/2020 ! | Interviewed by National Geographic. <a href="#">How the coronavirus outbreak in China impacts Lunar New Year travel</a> (online story).                                     |
| 1/26/2020 ! | Interviewed by the Pioneer. <a href="#">New coronavirus as dangerous as SARS? No clarity yet</a> (online story).  |
| 1/27/2020 ! | Interviewed by Consumer Report. <a href="#">What You Need to Know About the Wuhan Coronavirus</a> (online story).   |
| 1/27/2020 ! | Interviewed by CBS WBOC. <a href="#">Johns Hopkins Specialized Unit</a> (TV segment on local TV news).  |
| 1/27/2020 ! | Interviewed by CBS13 WJZ. <a href="#">With Coronavirus Cases Growing, Johns Hopkins Specialized Unit Prepared To Take Patients</a> (TV segment on local TV news).           |
| 1/27/2020 ! | Interviewed by CBS DC. <a href="#">Specialized Unit at Johns Hopkins Prepared to Take Coronavirus Case</a> (TV segment on local TV news).                                   |
| 1/29/2020 ! | Interviewed by Baltimore Sun. <a href="#">Coronavirus preparation underway at Maryland hospitals and schools as state awaits results of first test</a> (newspaper article). |
| 1/29/2020 ! | Interviewed by WTOP. <a href="#">Coronavirus? Johns Hopkins doctor says you're more likely to get the flu</a> (online story).   |

1/29/2020 ! Live appearance on the Kojo Nnamdi show. WAMU-FM/D.C. [Combating the coronavirus in the capital](#) (radio appearance).

1/29/2020 ! Interviewed by Baltimore Sun. [What is coronavirus and what precautions should people be taking?](#) (newspaper article).

1/29/2020 Interviewed by Capital Gazette. [Coronavirus preparation underway at Maryland hospitals and schools as state awaits results of first test](#) (online story with print and video interview).

1/29/2020 Interviewed by Long Room News. [Coronavirus? Johns Hopkins doctor says you're more likely to get the flu](#) (online story).

1/29/2020 Interview by The World News [Coronavirus? Johns Hopkins doctor says you're more likely to get the flu](#) (online story).

1/30/2020 Live appearance on Sky News (U.K.) [Interview with Dr. Brian Garibaldi](#) (Live international TV appearance).

2/21/2020 Interviewed by [WUSA TV DC](#) (local TV news broadcast).

2/26/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

2/27/2020 Interviewed with PBS News Hour, Business Insider and Agence France-Press (online story).

2/28/2020 Interviewed by KNX LA radio about COVID-19 (live radio broadcast).

3/4/2020 Interviewed by WUSA TV (Local TV news special about COVID-19).

3/4/2020 Interviewed by [60 Minutes](#) about the BCU (opening segment about BCU).

3/11/2020 Interviewed by NRK (Norwegian PBS), Channel 4 News (UK-based NBC affiliate), Univision (National), Telemundo (DC) and Science News (National) about the BCU (Segment on TV news programs on all channels).

3/26/2020 Interviewed by [CNN](#) about hydroxychloroquine study and COVID-19 experience (aired on the Anderson Cooper show).

3/27/2020 Interviewed by the [Wall Street Journal](#) about COVID-19 pathobiology (newspaper article).

4/8/2020 Interviewed by [Baltimore Sun](#) about COVID-19 in Maryland (newspaper article)

4/8/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

4/22/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

5/3/2020 Featured on front page article in [Baltimore Sun](#) about frontline COVID-19 care (newspaper article).

5/6/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

5/22/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

6/4/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

6/12/2020 Interviewed by WJZ TV. [Marathon Runner In Peak Physical Condition Hospitalized By COVID-19; Now On The Road To Recovery](#) (Segment on TV news and online story).

6/19/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

6/23/2020 Interviewed by WJZ. [Howard County couple treated together for coronavirus now back home recovering](#) (segment on local TV news.)

6/24/2020 Interviewed by [Science News](#) for article on dexamethasone (online article).

7/15/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

7/24/2020 [Medscape interview](#) about communication with ICU families (online article).

8/3/2020 Interviewed by [Washington Post](#) on safety of air travel in the pandemic (newspaper article)

8/6/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

8/8/2020 Interviewed by FOX45 about COVID-19 (TV news segment).

8/11/2020 Interviewed by WBAL News Radio Rob Lang about COVID-19 (live radio interview).

8/26/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

8/30/2020 Interviewed by [Fox News](#) about lung transplant and COVID-19. [Will some COVID-19 survivors require a lung transplant to fully recover?](#) (online article).

9/1/2020 Interviewed by Fox news. [People in their 20s, 30s and 40s' becoming key spreaders of COVID-19, experts say](#) (TV news segment).

9/4/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

9/17/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

9/19/2020 Interviewed by the Providence Journal. [Many unanswered questions as New England nears flu season amid coronavirus pandemic](#) (online article).



- 9/23/2020 Interviewed by Johns Hopkins Media. [Johns Hopkins Researchers Publish COVID-19 ‘Prediction Model’](#) (online article).
- 9/23/2020 ! Interviewed by WJZ CBS Baltimore. [Johns Hopkins Researchers Release Model That Aims To Forecast Whether A COVID-19 Patient’s Condition Will Improve, Deteriorate](#) (TV news segment).
- 9/28/2020 ! Interviewed by Medscape. [Model Predicts Severe Disease in Those With COVID-19](#) (online article).
- 10/3/2020 ! Featured in article by WJZ CBS Baltimore. [Johns Hopkins Doctor Among Those Assisting With COVID-19 Treatment Plan For President Trump](#) (online article).
- 10/3/2020 ! [Live press conference](#) regarding the care of President Trump (featured on multiple stations and newsfeeds internationally).
- 10/4/2020 ! [Live press conference](#) regarding the care of President Trump (featured on multiple stations and newsfeeds internationally).
- 10/5/2020 ! [Live press conference](#) regarding the care of President Trump (featured on multiple stations and newsfeeds internationally).
- 10/9/2020 ! Hopkins Medicine Matters Blog. [Garibaldi Treats President Trump](#) (online article).
- 10/15/2020 ! Interviewed by AARP. [How Coronavirus Drugs Are Helping Patients](#) (online article).
- 10/20/2020 ! Hopkins History Moments. [Neil A. Grauer tells the story of Johns Hopkins physicians who have served U.S. presidents and their families.](#) (online article).
- 10/22/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 10/28/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 11/3/2020 Interviewed by [Fox news](#) about the Great Barrington Declaration (online story).
- 11/13/2020 Interviewed by [Washington Post](#) about COVID-19 risk trackers (newspaper article).
- 11/16/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 11/18/2020 Prepared story on Thanksgiving planning with [Hopkins](#) media.
- 12/7/2020 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 1/4/2021 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 1/25/2021 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 2/22/2021 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).
- 3/11/2021 Live appearance on [Yahoo Finance](#) (online news program –100 million international viewers monthly).

## Other Media

1. ! Garibaldi BT, Masur S, Watto M, Williams P, Brigham S, Berk J. Physical Exam Series: Approach to Shortness of Breath. The Curbsiders Internal Medicine Podcast. <https://www.thecurbsiders.com>. 13 Oct 2020. [podcast]
2. ! Public Health on Call Podcast with Josh Sharfstein - <http://johnshopkinssph.libsyn.com/what-its-like-to-treat-patients-with-covid-19a-doctors-perspective>. 28 March 2020.
3. ! Anesthesia and Critical Care Reviews and Commentary (ACCRAC). Lessons from COVID patients in the ICU. <http://accrac.com/episode-170-lessons-from-40-covid-patients-in-the-icu-with-brian-garibaldi/>. 4 April 2020
4. ! Center Maryland “The Conference Call” Podcast with Damien O’Dougherty. <https://the-conference-call.simplecast.com/episodes/04-dr-brian-garibaldi-on-the-view-of-covid-19-from-the-johns-hopkins-biocontainment-unit>. 6 May 2020.
5. ! Johns Hopkins Medicine Podcast. [Less Death and Fewer Hospitalizations](#). 19 Oct, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
6. ! Johns Hopkins Medicine Podcast. [No Symptoms](#). 19 Oct, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
7. ! Johns Hopkins Medicine Podcast. [Covid Upside](#). 19 Oct, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
8. ! Johns Hopkins Medicine Podcast. [Covid Calculations](#). 19 Oct, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
9. ! Johns Hopkins Medicine Podcast. [Antibodies and Covid](#). 1 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
10. Johns Hopkins Medicine Podcast. [Using Antibodies](#). 1 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
11. Johns Hopkins Medicine Podcast. [Other Covid Drugs](#). 1 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
12. Johns Hopkins Medicine Podcast. [Oxygen and ICUs](#). 1 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
13. Johns Hopkins Medicine Podcast. [Virus Challenge](#). 1 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).

14. Johns Hopkins Medicine Podcast. [New Variants](#). 8 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
15. Johns Hopkins Medicine Podcast. [Saliva Testing](#). 8 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).
16. Johns Hopkins Medicine Podcast. [Vaccine Trials](#). 8 Feb, 2021 (Broadcast nationally on CBS Radio, Voice of America, and a host of radio stations and syndicates nationally and internationally).

## FUNDING

### EXTRAMURAL Funding

#### Research Extramural Funding

##### *Current*

08/01/19-7/31/25 ! The Graduate Medical Laboratory (GEL)  
 American Medical Association (AMA) Reimagining Residency Initiative  
 Total Direct Cost: \$1,800,000  
 Role: Co-Principal Investigator, Chair of Executive Committee, Percent Effort 12.5%

This grant is one of 8 awarded as part of the AMA's Reimagining Residency initiative. The goal of our project is to explore the relationship of modifiable factors in the training environment with the primary outcome of wellness/burnout, and the secondary outcome of clinical skill. This grant is a partnership with the internal medicine residency programs at The Johns Hopkins Hospital, Johns Hopkins Bayview Medical Center, Stanford University and the University of Alabama at Birmingham.

##### *Previous*

05/16/16 – 04/30/20 ! Ethical, Legal and Social Issues for Precision Medicine and Infectious Disease  
 1RM1HG009038-01  
 National Human Genome Research Institute  
 Total direct cost: \$640,555  
 Co-Principal Investigators: Gail Geller and Jeffrey Kahn  
 Role: Project Leader for Aim 3, Percent Effort: 5%

The Johns Hopkins University CEER, entitled "ELSI Issues in Applying 'Precision Medicine' to Infectious Disease" aims to anticipate and examine, from a "P5" perspective, the ethical, legal, social, historical and policy issues confronting the incorporation of genomics in the prevention, outbreak control, and treatment of a range of infectious diseases, and plan for the responsible translation of genomic advances into practice.

9/10-8/12 ! Regulatory Tcells and the Fibroproliferative Response to Acute Lung Injury  
 F32HL104908  
 National Institute of Health  
 Total direct cost: \$188,648  
 Role: Principal Investigator, Percent Effort: 80%

The goal of this proposal was to understand the role of Regulatory Tcells (Tregs) in the fibroproliferative response to ALI. Lymphocyte deficient, *Rag-1<sup>-/-</sup>* mice develop persistent injury and fibrosis after LPS-induced lung injury. Adoptive transfer of Tregs into *Rag-1<sup>-/-</sup>* mice restores normal resolution of lung injury and reduces fibroproliferation. We explored the cellular mechanisms that underlie this Treg-dependent resolution of fibroproliferation.

7/11-7/13 ! Regulatory Tcells and Fibrocytes as Determinants of Fibroproliferation in Humans with ALI  
 NIH Loan Repayment Program  
 National Institute of Health

Total direct cost: \$47,996.83  
Role: Principal Investigator

The goal of this proposal was to develop an understanding of the role of fibrocytes in the fibroproliferative response to lung injury. We sought to extend our observations on the role of fibrocytes in a murine model of lung injury to human patients with ALI to provide proof of principle that fibrocytes are important in fibroproliferation in humans.

### **Educational Extramural Funding**

#### *Current*

7/20- 7/21                      Project ECHO COVID-19 Education Project  
Robert Wood Johnson Foundation  
Total Direct Cost: \$75,000  
Role: Co-Program Director (5.5% FTE)

This grant was awarded as part of RWJF's COVID-19 initiative. The goal of this project is for the Johns Hopkins Bio-Containment Unit team to utilize the (Extended Community Health Outcomes) ECHO Project platform, established by the University of New Mexico Health Science Center, to provide an outlet for Region III frontline and assessment hospitals to discuss COVID-19 lessons learned and best practices.

#### *Previous*

9/18-3/20                      Maryland Department of Health Special Pathogens Training Program  
Total Direct Cost: \$800,000  
Role: Principal Investigator

The goal of this training program is to help prepare Maryland state hospitals to provide care for patients infected with high consequence pathogens such as Ebola. We will train frontline hospital providers to identify, isolate and provide initial treatment for such patients. We will also host educational programs for providers at the five Special Pathogen Assessment Hospitals (SPAHS), as well as provide consultative services to help bolster their local preparedness efforts.

7/16-7/18                      Jeremiah Barondess Fellowship in the Clinical Transaction  
New York Academy of Medicine and the Accreditation Council for Graduate Medical Education  
Total Direct Cost: \$50,000  
Role: Principal Investigator, 7.5% effort

The goal of this proposal is to develop a robust physical diagnosis curriculum that will support the culture of bedside medicine at Hopkins and beyond. As part of this proposal, we will refine our current physical diagnosis curriculum, create a new bedside clinical skills assessment tool and develop an online portal to track utilization of tests such as echocardiograms and chest CTs by learners in the curriculum.

7/17-12/18                      Visiting Scholars Program, American Board of Medical Specialties  
Total Direct Cost: \$12,500  
Role: Principal Investigator

The goal of this proposal is to modify our current bedside clinical assessment tool into a potential Maintenance of Certification (MOC) activity for internal medicine faculty. We have adapted the Practical Assessment of Clinical Examination Skills (PACES) assessment from the MRCP UK, to assess internal medicine resident physical exam skills. Through the visiting scholars program, I will create faculty development training materials and pilot the assessment with internal medicine faculty.

### **Clinical Extramural Funding**

#### *Current*

7/20-7/21 Ebola and Other Special Pathogen Treatment Center  
Assistant Secretary for Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$522,000  
Role: Co-Principal Investigator (with Lisa L. Maragakis, MD MPH; 30% FTE)

The goal of this proposal is to continue to enhance the capabilities of the Johns Hopkins Hospital as the Ebola and Other Special Pathogen Treatment Center for Region 3 of the United States. This is a joint grant awarded to the Maryland State Department of Health and The Johns Hopkins Hospital. The grant will fund equipment and supplies needed to maintain the infrastructure of the Johns Hopkins Biocontainment Unit and will also fund ongoing training and preparedness activities.

7/20-7/21 COVID19 Administrative Supplement for HHS Region 3 Treatment Center  
Assistant Secretary for Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$585,000  
Role: Principal Investigator (6% FTE)

The goal of this proposal is to support COVID 19 Preparedness and Response activities at the local, state, and regional level through educational and operational support. This is a joint grant awarded to the Maryland State Department of Health and The Johns Hopkins Hospital. The grant will fund time and effort to develop educational materials and training capacity as well as strengthen operational and clinical readiness for COVID-19 patient care.

7/20- 7/21 National Emerging Infectious Diseases Training and Education Center (NETEC) Supplement  
Assistant Secretary of Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$170,000  
Role: Principal Investigator (2.5% FTE)

The goal of this proposal is to partner with the National Emerging Infectious Diseases Training and Education Center (NETEC) to assist with 1) the development and review of expert educational content and assessment metrics, and identification and translation of best practices related to emerging infectious diseases (EID) preparedness, 2) provide subject matter experts to assist with NETEC activities and to assess EID programs nationally, and 3) participate in the Special Pathogen Research Network (SPRN).

#### *Previous*

7/15-7/20 Ebola and Other Special Pathogen Treatment Center  
Assistant Secretary of Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$3,087,499  
Role: Co-Principal Investigator (with Lisa L. Maragakis, MD MPH)

The goal of this proposal is to continue to enhance the capabilities of the Johns Hopkins Hospital as the Ebola and Other Special Pathogen Treatment Center for Region 3 of the United States. This is a joint grant awarded to the Maryland State Department of Health and Mental Hygiene and the Johns Hopkins Hospital. The grant will fund some of the capital equipment and renovations and that were necessary to create the new Johns Hopkins Biocontainment Unit and will also fund ongoing training and preparedness activities.

7/15-7/20 ! State of Maryland, Ebola Treatment Center Award  
Assistant Secretary of Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$1,000,000  
Co-Principal Investigator (with Lisa L. Maragakis, MD MPH)

This proposal is designed to develop the capabilities of the Johns Hopkins Hospital to serve as an assessment and treatment hospital for Ebola and other special pathogens in the state of Maryland. This award complements the larger ASPR award to build capabilities as one of 10 new National Ebola and Special Pathogens Treatment Centers.

- 10/18-6/19                    An Expanded Access Treatment Protocol for ZMapp™ for Patients with Ebola Virus Disease (EVD) or Ebola Virus Exposure  
Biomedical Advanced Research and Development Authority (BARDA)  
Total Direct Cost:  
Co-Principal Investigator, 3% Salary Support
- 4/15-10/15                    Ebola Healthcare Preparedness and Response for Select Hospital in Cities with Enhanced Airport Entrance Screenings from Affected Countries in West Africa  
Assistant Secretary of Preparedness and Response  
Department of Health and Human Services  
Total Direct Cost: \$62,500  
Role: Co-Principal Investigator (with Lisa L. Maragakis, MD MPH)

This proposal supported the creation of an onsite laboratory within the newly created Johns Hopkins Biocontainment Unit, to enable safe laboratory testing for patients with Ebola virus and other highly infectious diseases.

## **INTRAMURAL Funding**

### **Research Intramural Funding**

#### *Previous*

- 1/2/18-12/31/19 !            Environmental transmission and traceability of aerosolized bio-simulants in a clinical biocontainment unit.
- Fisher Center Discovery Program (FCDP)  
Total Direct Cost: \$20,000  
Role: Principal Investigator

This award funded the development and validation of a new methodology to track the movement of aerosolized particles in a biocontainment unit. This work will inform protocol development as well as the design and construction of biocontainment units by tracking DNA-labeled microbeads through the JHH BCU during simulated clinical care.

### **Educational Intramural Funding**

#### *Current*

- 7/18-6/23 !                    Douglas Carroll, MD Scholar  
Johns Hopkins Center for Innovative Medicine  
Total Direct Cost: \$250,000  
Role: Principal Investigator

This award was created through a generous gift by Susan and Steven Immelt in honor of Susan's father Douglas Carroll. Dr. Carroll was a physician at City Hospital who was renowned for his bedside clinical skill. The award will support the expansion of the PI's clinical skills curriculum in the Osler Medical Residency Program to the Bayview Medical Residency Program. It will specifically help to incorporate point-of-care ultrasound (POCUS) into the bedside program, as well as fund the development and validation of a novel bedside clinical skills assessment program.

#### *Previous*

7/16-7/17                    Berkheimer Faculty Education Scholar Award  
Johns Hopkins Institute for Excellence in Education  
Total Direct Cost: \$50,000  
Role: Principal Investigator

The goal of this proposal was to develop a robust physical diagnosis curriculum to support the culture of bedside medicine at Hopkins and beyond. As part of this proposal, we refined our current physical diagnosis curriculum, created a new bedside clinical skills assessment tool and developed methodology to track utilization of tests such as echocardiograms and chest CTs by learners in the curriculum. I also engaged in a number of faculty development activities to support my long-term goals in medical education research and program development.

7/18-6/19 !                The Women's Board of the Johns Hopkins Hospital Grant  
Total Direct Cost: \$64,020  
Role: Principal Investigator

This grant, entitled "Handheld Ultrasound Devices to Improve the Patient Care Experience on the Osler Medical Service", will fund the purchase of 8 hand-carried ultrasound devices for use in our bedside medicine teaching program. This will complement the efforts of our IEE-funded grant to incorporate point-of-care ultrasound (POCUS) training into a comprehensive physical diagnosis program.

7/18-6/20 !                Resident Readiness for Practice Challenge Grant  
Johns Hopkins Institute for Excellence in Education and the Office of Graduate Medical Education  
Total Direct Cost: \$95,000  
Role: Co-Principal Investigator

The goal of this proposal is to development, implement, and assess the impact of a point of care ultrasound (POCUS) curriculum for internal medicine residents at The Johns Hopkins Hospital. The POCUS curriculum is part of a comprehensive physical diagnosis curriculum that incorporates advanced point of care technology with foundational physical exam techniques. We will develop novel methods of competency assessment and will measure the effect of the curriculum on resident attitudes, skills, behavior and clinical outcomes.

## **CLINICAL ACTIVITIES**

### [Clinical Focus](#)

My outpatient practice focuses on patients with interstitial lung disease, (ILD), particularly those with inflammation secondary to autoimmune disease or environmental exposures. I also see patients with complicated and unexplained lung disease that falls outside of what would be considered ILD, such as hypoxia of unexplained etiology. I attend in the medical intensive care unit (MICU), where I care for patients with critical illness from a variety of etiologies. I attend on the housestaff medical service where I care for patients with both acute and chronic illness who require admission to the hospital. Finally, as the Medical Director of the Johns Hopkins Biocontainment Unit (BCU), I help to coordinate and administer care for patients with serious communicable diseases that require admission to the BCU. Our team was the first to care for COVID-19 patients at The Johns Hopkins Hospital, and continue to be involved in frontline COVID care, education and operations.

### [Certification](#)

#### [Medical, other state/government licensure](#)

2007-present    Maryland State Medical License, D0066256

#### [Boards, other specialty certification](#)

2007-2027        Board Certified, Internal Medicine  
2012-2022        Board Certified, Pulmonary Medicine  
2013-2023        Board Certified, Critical Care Medicine

## Clinical (Service) Responsibilities

|              |   |
|--------------|---|
| 7/12-10/2020 | Interstitial Lung Disease Group – Faculty Member                                      |
| 7/12-present | Medical Intensive Care Unit (MICU) – Faculty Member                                   |
| 9/14-present | Longcope Firm Faculty – Attend on the Osler Medicine Housestaff Service               |
| 10/14-3/17   | Johns Hopkins Biocontainment Unit – Associate Medical Director and Physician Provider |
| 3/17-present | Johns Hopkins Biocontainment Unit – Medical Director and Physician Provider           |

## Clinical Program Building / Leadership

Date                      Role/percent effort; name of clinical program; impact of program outside of JHMI/region

9/14-2/17              Associate Medical Director, Director of Education; 30% FTE, Johns Hopkins Biocontainment Unit; During the Ebola crisis in 2014, I helped to create the Johns Hopkins Biocontainment Unit (BCU), a specialized unit capable of providing care for patients with high consequence pathogens such as Ebola, severe acute respiratory syndrome (SARS), and Middle East Respiratory Syndrome (MERS). I established our longitudinal training program on highly infectious disease isolation, safety and treatment. I authored our clinical guidelines and assisted with the design of the clinical space. I direct the BCU education and research agenda and am co-PI on two 5-year federal grants that fund our preparedness mission. The JH BCU is one of only 10 federally funded BCUs in the U.S., and is a model for research and education in containment care.

3/17-present              Medical Director, Director of Education; 30% FTE, Johns Hopkins Biocontainment Unit; The BCU has played an integral role in the response to COVID-19. Prior to the first patients, the BCU helped to prepare the institution for persons-under investigation (PUI) and for confirmed cases. The BCU first activated for a COVID-19 PUI on February 29 and then cared for the first confirmed cases of COVID-19 until Meyer 9 and the MICU were activated as full biomode units on March 23, 2020. The BCU team has continued to provide frontline COVID-19 care on the active biomode units, and has led educational and operational efforts to help other biomode units activate and function safely.

## EDUCATIONAL ACTIVITIES

### Educational Focus

I am passionate about bedside teaching. In 2014, I enrolled in the MEHP program and created a cardiopulmonary physical diagnosis curriculum that is delivered to interns in the Osler Medical Residency program. This has become the backbone for a comprehensive bedside medicine program at JHH. I am past-president and founder of the Society of Bedside Medicine, an international group dedicated to education, innovation and research in the 21<sup>st</sup> century clinical encounter. These initiatives bring physicians, and trainees, back to the bedside to promote high quality, patient-centered care. I also helped to design and implement the educational program of the BCU for high consequence pathogens, including COVID-19. We have played a critical role in health system, state, regional and national education on how to safely provide care for patients with COVID-19.

### Teaching

#### Classroom instruction

#### JHMI/Regional

| Date               | Role, learner level, course title, venue; any explanatory notes   |
|--------------------|---|
| 7/09-6/13          | Lecturer/Small group leader, 4 <sup>th</sup> year medical students, TRIPLE (Transition to Residency and Internship and Preparation for Life Events), Armstrong Medical Education Building (AMEB) and Johns Hopkins Simulation Center; Capstone course for all 4 <sup>th</sup> year medical students |
| 7/09-6/13          | Lecturer, 3 <sup>rd</sup> and 4 <sup>th</sup> year medical students, Basic Clerkship Lecture Series, The Johns Hopkins Hospital; Delivered lectures on Pulmonary Function Testing to medical students on the internal medicine clerkship.   |
| 5/11-6/13          | Lecturer, Applying Clinical Reasoning to the Physical Exam, Johns Hopkins Simulation Center; Delivered two-hour seminar on physical diagnosis and clinical reasoning to medical students about to begin the internal medicine clerkship.  |
| 8/11-6/13;<br>2016 | Small group leader, 2nd year medical students, Pulmonary Genes to Society, Armstrong Medical Education Building; Small group instructor the for 2 <sup>nd</sup> year medical students.  |

|               |  |
|---------------|--|
| 7/09-6/15     | Facilitator, 3 <sup>rd</sup> year medical students, Transition to the Wards, The Johns Hopkins Hospital; Bedside instructor for clinical Skills Course for 2 <sup>nd</sup> year medical students   |
| 7/14-9/15     | Associate Director, 4 <sup>th</sup> year medical students, TRIPLE (Transition to Residency and Internship and Preparation for Life Events), Armstrong Medical Education Building (AMEB) and Johns Hopkins Simulation Center; Capstone course for all 4 <sup>th</sup> year medical students |
| 2015-2016     | Lecturer, Johns Hopkins Pulmonary Fellowship Introduction to Bronchoscopy Course; Delivered lectures on bronchoscopy to pulmonary and critical care fellows from across Maryland state.  |
| 2016          | Lecturer, Pulmonary Fellows' Winter Education Week; Delivered lectures on interstitial lung disease to pulmonary fellows from across Maryland state.   |
| 2016          | Lecturer, Pulmonary Fellows' Core Conference series  |
| 2016          | Lecturer, Critical Care Physician Assistant Residency Program; Delivered lecture on chest radiography to PA residents  |
| 2018          | Lecturer, Bloomberg School of Public Health Infectious Disease Concentration conference series; delivered lecture to public health students about highly infectious diseases   |
| 2014-present  | Lecturer, Housestaff Noon Conference Series; Deliver multiple noon conference lectures each year to internal medicine housestaff   |
| 12/14-present | Director, graduate students, Pulmonary Course for Graduate Students, Johns Hopkins University; Course director of basic pulmonary physiology course for graduate students in the Departments of Physiology, Pharmacology and Cellular and Molecular Medicine                               |
| 9/15-6/20     | Director, 4 <sup>th</sup> year medical students, TRIPLE (Transition to Residency and Internship and Preparation for Life Events), Armstrong Medical Education Building (AMEB) and Johns Hopkins Simulation Center; Capstone course for all 4 <sup>th</sup> year medical students.          |
| 2020-present  | ME 600.722 Data Abstraction for the JH CROWN Clinical Registry: Applications of Informatics in Addressing Novel Infectious Diseases; co-course director and faculty  |
| International |  |
| 7/13-7/14     | Director, 1 <sup>st</sup> and 2 <sup>nd</sup> year medical students, Genes to Society Course, Perdana University Graduate School of Medicine; Director of the two-year GTS curriculum at a Hopkins affiliated medical school in Malaysia   |

## Clinical instruction

### JHMI/Regional

| Date !         | Role, learner level, course title, venue; any explanatory notes   |
|----------------|---|
| 2004-present ! | Bedside Instructor, medical students and medicine housestaff, The Johns Hopkins Hospital; teach medical students and housestaff while performing inpatient and consultative duties.   |
| 2008-2009 !    | Facilitator, medicine housestaff, Resident Report; Facilitated weekly resident report while serving as one of the chief residents of the Osler Medical Residency Program.   |
| 2012-2013 !    | Site Director, 3 <sup>rd</sup> and 4 <sup>th</sup> year medical students, Internal Medicine Basic Clerkship, The Johns Hopkins Hospital; conducted weekly bedside teaching sessions and clinical didactics with 3 <sup>rd</sup> year internal medicine clerkship students |
| 2012-2020 !    | Lecturer, medicine residents and pulmonary fellows, Carol Johns Service (Inpatient Pulmonary Service), The Johns Hopkins Hospital; lecture monthly about Interstitial Lung Disease to housestaff and fellows as part of the core curriculum on the pulmonary service.     |
| 2014-2018 !    | Director, pulmonary fellows, Radiology Conference, Division of Pulmonary and Critical Care Medicine; lead weekly multi-disciplinary radiology conference for the Pulmonary Division.  |
| 2014-present ! | Firm Faculty member, medicine housestaff, Osler Medical Residency Program; Conduct bedside teaching sessions for medical students and residents on the Longcope Firm.   |
| 2015-2017 !    | Education Director, medicine housestaff, General Medicine Service (GMS), The Johns Hopkins Hospital; coordinate educational activities for housestaff on the newly created GMS at The Johns Hopkins Hospital.   |
| 2015-2016 !    | Assistant Program Director for Curriculum, medicine housestaff, Osler Medical Residency Program, The Johns Hopkins Hospital; coordinate educational activities for the internal medicine residency program, including clinical and bedside didactics                      |



- 2016-present Associate Program Director for Curriculum, medicine housestaff, Osler Medical Residency Program, The Johns Hopkins Hospital; coordinate educational activities for the internal medicine residency program, including clinical and bedside didactics
- 2017-present ACCESS Examiner for St. Peter's University Hospital, New Brunswick, NJ; serve as faculty examiner for the ACCESS clinical skills assessment in collaboration with St. Peter's and the Royal College of Physicians of Edinburgh

#### International

- 2013-2014 Assistant Director for Clinical Clerkships, 3<sup>rd</sup> and 4<sup>th</sup> year medical students, Perdana University Graduate School of Medicine (PUGSOM); oversaw the development and administration of the clinical clerkship program at PUGSOM, including clerkships in Medicine, Neurology, Psychiatry, Obstetrics and Gynecology, Pediatrics and Surgery.

#### CME instruction

Date ! Role, learner level, course title, venue; any explanatory notes

#### JHMI/Regional

- 2008-2009 ! Lecturer, medicine faculty, Medical Grand Rounds 'Images of Osler', The Johns Hopkins Hospital
- 2009 ! Lecturer, medicine faculty, Spontaneous Pneumomediastinum in a patient with ILD, The Philip A. Tumulty Topics in Clinical Medicine Course, The Johns Hopkins Hospital
- 2011 ! Instructor, pulmonary faculty, Johns Hopkins Interventional Pulmonology Pleural Disease Course, The Johns Hopkins Hospital; served as bedside instructor for pulmonary procedures such as chest tube placement and bronchoscopy.
- 2012 ! Lecturer, medicine faculty, An uncommon presentation of an uncommon disease, Harbor Hospital Medical Grand Rounds, Harbor Hospital, Baltimore, MD
- 2013-2014 ! Organizer and lecturer, medicine faculty, Department of Medicine CME lecture series, Hospital Kuala Lumpur, Kuala Lumpur, Malaysia; organized visiting speakers from Johns Hopkins and delivered one Grand Rounds session.
- 2015 ! Lecturer and bedside instructor, medicine faculty, Teaching Tips for Workplace-based Settings: Making the Most of Teaching Opportunities, Summer Teaching Camp, Institute for Excellence in Education, Johns Hopkins University
- 2015 ! Lecturer, pulmonary faculty, ILD and Alphabet Soup: Recognition, Evaluation and Treatment Strategies, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 Lecturer, pulmonary faculty, Clinical ILD Cases and Discussion, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Setting up a Biocontainment Unit: The Johns Hopkins University Experience, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Beyond Ebola: Emerging Threats in Infectious Disease and Biocontainment, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Hands-on Personal Protective Equipment, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Radiology Case Review, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Challenging Cases and Diagnostic Dilemmas, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2015 ! Lecturer, pulmonary faculty, Medical Jeopardy! A Course Review, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Isle of Palms, SC
- 2016 ! Lecturer, pulmonary faculty, Management of Unclear Exudates, 6<sup>th</sup> Annual Evaluation and Management of Pleural Disease, Johns Hopkins University
- 2016 ! Lecturer, medicine faculty, How to Teach Clinical Reasoning, Summer Teaching Camp, Institute for Excellence in Education, Johns Hopkins University
- 2017 ! Lecturer, medicine faculty, A case from the interstitial lung disease clinic, The Philip A. Tumulty Topics in Clinical Medicine Course, The Johns Hopkins Hospital
- 2017 Lecturer, pulmonary faculty, Clinical ILD Cases and Discussion, Johns Hopkins Update in Pulmonary, Critical Care and Sleep Medicine, Napa Valley, CA

- 2019 Lecturer, geriatricians, The physical exam in older adults, Edmund G. Beacham 46th Annual Current Topics in Geriatrics, Baltimore, MD
- 2019 Facilitator, Introduction to Point of Care Ultrasound (POCUS). Maryland ACP Annual Conference, Baltimore, MD
- 2020 Facilitator, Introduction to Point of Care Ultrasound (POCUS). Maryland ACP Annual Conference, Baltimore, MD
- 2020 Lecturer, medicine faculty, 10<sup>th</sup> Annual Evaluation and Management of Pleural Disease, Johns Hopkins University.
- 2020 Lecturer, geriatricians, More Physical Exam Teaching, Edmund G. Beacham 47th Annual Current Topics in Geriatrics, Baltimore, MD

National

- 2017 Small group facilitator, Clinical Skills for the Practicing Physician, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA
- 2017 Workshop organizer and presenter, A better way to assess physical exam skills: Direct observation and volunteer patients, AAIM Skills and Leadership Conference, Dallas, TX.
- 2018 Workshop organizer and presenter, Approach to the Pulmonary Exam, Third Annual Back to the Bedside Conference, St. Peters Hospital, New Brunswick, NJ.
- 2019 Small group facilitator, Clinical Skills for the Practicing Physician, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA

[Workshops /seminars](#)

Date ! Role, learner level, course title, venue; notes

JHMI/Regional

- 8/4/16 ! **Garibaldi BT**, Sedighi Manesh R, and Barone MA. How to Teach Clinical Reasoning [workshop], The Institute for Excellence in Education (IEE) 2016 Summer Teaching Camp. Baltimore, MD
- 5/10/17 ! **Garibaldi BT** and Lewis M. Ethical, legal and social implications of genomics in the care of patients with highly infectious diseases. Seminar for the Bloomberg School of Public Health Course: Germs, Genes, Patients and Populations.
- 10/15/17 ! **Garibaldi BT**, Niessen T. Approach to the Chest Examination. Bayview Faculty Development Meeting.
- 2/8/18 ! **Garibaldi BT** and Russell SW. Approach to bedside physical examination for pediatrics providers. Hopkins Pediatric Hospitalist Group Faculty Development Meeting.
- 5/3/18 ! **Garibaldi BT**, Niessen T, Manesh R, Liu G, Halstead M. Maryland American College of Physicians (ACP) Clinical Skills Symposium. Developed and implemented a clinical skills symposium for the Maryland chapter of the ACP.
- 7/12/18 ! **Garibaldi BT**, Kugler J, and Liu G. Bedside Teaching [workshop], The Institute for Excellence in Education (IEE) 2018 Summer Teaching Camp. Baltimore, MD
- 3/7/19 ! **Garibaldi BT** and Luckin J. Assessing Physical Examination and Communication Skills (APECS). Armstrong Institute 3<sup>rd</sup> Annual Diagnostic Excellence Summit. Baltimore, MD
- 5/23/19 ! **Garibaldi BT**, Niessen T, Liu G and Halstead M. Halstead M. Maryland American College of Physicians (ACP) Clinical Skills Symposium. Developed and implemented a clinical skills symposium for the Maryland chapter of the ACP.
- 5/25/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Upper Chesapeake Medical Center, Maryland.
- 6/12/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Harford Memorial Hospital, Maryland. Medstar Harbor Hospital, Maryland.
- 8/13/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Medstar Harbor Hospital, Maryland.
- 9/10/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Howard County Hospital, Maryland.
- 9/13/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. University of Maryland, Baltimore-Washington Hospital, Maryland.
- 9/26/19 ! Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Medstar Southern Maryland Hospital, Maryland.

- 10/1/19 Frontline Hospital Training Course in the Management of Highly Infectious Diseases. University of Maryland Capiral Region, Maryland.
- 10/3/19 Frontline Hospital Training Course in the Management of Highly Infectious Diseases. Medstar Franklin Square Hospital, Maryland.
- National
- 10/21/16 **Garibaldi BT**, Sedighi MR, Russell SW. Re-Invigorating the Practice of Bedside Medicine – A Practical Guide to Teaching at the Bedside. AAIM Skills Development Conference. National Harbor, MD.
- 2/11/17 **Garibaldi BT**, Sedighi MR, Russell SW. Implementing Practical Bedside Teaching in Three Simple Steps. Society of General Internal Medicine Southern Regional Conference. New Orleans, LA
- 9/30/17 **Garibaldi BT**, Russell SW. Clinical Skills for the Practicing Physician. Stanford 25 Bedside Medicine Symposium. Palo Alto, CA
- 10/20/17 **Garibaldi BT**, Lee YZ, Clark B. A better way to assess physical exam skills: Direct observation and volunteer patients, AAIM Skills and Leadership Conference, Dallas, TX.
- 11/12/17 **Garibaldi BT**, Artandi M, Spacek L. Practical Physical Exam Skills. Annual Meeting of the Texas American College of Physicians (ACP), San Antonio, Tx
- 9/8/18 **Garibaldi BT**, Liu G, Niessen T, Kugler J, Zaman J. Integrating point of care ultrasound with the physical exam. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 9/8/18 **Garibaldi BT**, Luckin J, DiMarzio R, Elder A, Kothari N. A modified PACES program for U.S. clinical skills assessment. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 4/11/19 **Garibaldi BT**, Kugler J, Elder A, Artandi M, Niessen T, Liu G. 21<sup>st</sup> Century Clinical Skills. American College of Physicians (ACP) National Meeting. Philadelphia, PA.
- 11/1/19 Garibaldi BT. Approach to the Patient with Dyspnea. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 11/2/19 **Garibaldi BT**. The Assessment of Physical Examination and Communication Skills (APECS). Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 11/2/19 **Garibaldi BT**, Liu G, Kumar A, Kugler J. Integrating point of care ultrasound with the physical exam. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 11/10/19 **Garibaldi BT** and Manesh MR. Diagnosis Education - Best Practices and New Ideas. Society to Improve Diagnosis in Medicine (SIDM) Annual Meeting, Washington, DC.
- 10/6/20 Garibaldi BT, Russell SW, Desai SV and Artandi M. Assessment of Physical Exam and Communication Skills (APECS) using Telemedicine. American Medical Association GME Innovations Summit (Delivering over Zoom).
- International
- 5/8/19 Garibaldi, BT. Practical Bedside Skills for Clinicians and Educators. Medical Education Forum. Krakow, Poland.
- 11/20/19 **Garibaldi, BT** and Alejandro Schejtmán. Intersticiopatías, cómo resolver su manejo con el expert (Interstitial lung disease, how to approach a case with an expert – conducted in Spanish). 27<sup>th</sup> National Congress of Medicine, Buenos Aires, Argentina.

## Mentoring

### Pre-doctoral Advisees /Mentees

- Date ! Mentee name, degree, present position; awards/grants/degrees received under your direction, indicate shared publications scholarship by numbered entries in this CV
- 2012-2014 ! Pooja Mandke, MSc, PhD Candidate, University of Texas at Austin. Pooja worked in the King laboratory as a technician for 2 years. She ultimately became the lab manager for the entire group. I was her direct supervisor in the lab, and trained her on techniques including small animal surgery as well as flow cytometry. We have three shared publications (OR 9,11,13). She left to pursue her PhD in oncology at the University of Texas at Austin.
- 2014-2017 ! Mallory Reimers, RN, The Johns Hopkins Hospital. Mallory was the nurse educator for the Biocontainment Unit. She reported directly to me in my role as the Medical Director. We worked on protocol development and co-developed our current training curriculum for staff. She helped to write and implement our 2 large federal grants to support our preparedness mission. We share 2 publications (OR 14, 15 BC 9 above) with several more currently under review. We have co-presented abstracts and posters at local, regional, national and international meetings.

2017-present Jade Flinn, RN, The Johns Hopkins Hospital. Jade took over as the nurse educator for the biocontainment unit in 2017. She reports directly to me in my role as Medical Director. We work on protocol development as well as training session design and implementation. She also participates in ongoing research projects on the unit related to staff and unit safety. We have co-presented abstracts and have three papers together (OR 21, 30, 31 above). I also provided mentorship for her while she was pursuing her masters in education.

### Post-doctoral Advisees /Mentees

- 2014-present ! Timothy Niessen, MD, MPH, Johns Hopkins University School of Medicine. Tim worked with me to establish our bedside medicine program at Johns Hopkins. We created the General Medicine Service together and he is one of the core faculty that delivers our physical examination curriculum. He was the co-PI on the Berkheimer Faculty Scholars Award from the Institute in Excellence in Education (IEE). We have two publications together on this topic (OR 16, EO 5 above), and have presented at national meetings together on clinical skills education and assessment. We also partnered together on COVID-19 care and research and have 1 manuscript together (OR 34 above).
- 2014-2020 ! Reza S. Manesh, MD, Johns Hopkins University School of Medicine. Reza is a hospitalist that helped to deliver our physical diagnosis curriculum. We worked together on adapting his online clinical reasoning curriculum to live, in-person bedside medicine sessions. We presented together on clinical reasoning at the Association of Academic Internal Medicine (AAIM) and the Society of General Internal Medicine (SGIM). We have two publications together on this topic (OR 16, 24 above).
- 2015-2020 ! Bennett Clark, MD, Johns Hopkins University School of Medicine. Bennett is a hospitalist that helped to deliver our physical diagnosis curriculum on the General Medicine Service at Johns Hopkins. We worked on a project to develop and implement a novel bedside clinical skills assessment for housestaff. He is now at the University of Minnesota and we are continuing to collaborate on clinical skills education and assessment. We have one publication together on this topic (OR 16 above).
- 2017-present ! Gigi Liu, MD, Johns Hopkins University School of Medicine. Gigi is a hospitalist with an interest in diagnostic point of care ultrasound. We are working to integrate point of care ultrasound teaching into our physical diagnosis curriculum. We have one publication together on improving physical exam skills in general (OR 16 above) and one on the use of ultrasound in COVID-19 care (OR 52, CR 9,10 above)
- 2020-present ! Matthew L. Robinson, MD, Johns Hopkins University School of Medicine. Matt is an assistant professor in the division of Infectious Diseases. We are working together in the COVID-19 Precision Medicine Center of Excellence to develop prediction models for hospitalized patients with COVID-19 and conduct comparative effectiveness models on COVID-19 therapeutics. We have 4 publications together on COVID-19 (OR 34, 39, 49, 50 above)

### Educational Program Building / Leadership

- 7/08-6/09 ! Medicine Housestaff Noon Conference Lecture Series - Organized speaker schedule and curriculum for housestaff noon conference lecture series during chief residency year
- 7/12-6/13 ! Site Director, Johns Hopkins University School of Medicine Basic Medicine Clerkship
- 7/13-7/14 ! Director, Genes to Society Course, Perdana University Graduate School of Medicine, Malaysia
- 7/13-7/14 ! Assistant Director, Clinical Clerkships, Perdana University Graduate School of Medicine, Malaysia
- 9/14-9/18 ! Co-Director of Longitudinal Training, HCL Healthcare/JHI – Develop and deliver longitudinal training course for general practitioners at HCL Healthcare in India as part of ongoing collaboration with Johns Hopkins International
- 10/14-8/15 ! Associate Director, TRIPLE (Transition to Residency and Internship and Preparation for Life), 10% effort, capstone course for 4<sup>th</sup> year medical students to prepare them for internship.
- 4/15-present ! Director, Pulmonary Course for Physiology Graduate Students – Course director of basic pulmonary physiology course for graduate students in the Department of Physiology
- 5/15-present Director of Education, Johns Hopkins Biocontainment Unit – Coordinate training program for over 150 to provide care for patients with serious communicable diseases
- 4/15-6/18 ! Education Director, General Medicine Service (GMS) - Coordinate educational activities for housestaff on the newly created GMS at the Johns Hopkins Hospital
- 7/15-6/16 ! Assistant Program Director for Curriculum, 15% effort, Osler Medicine Residency Program; As part of my role in the residency program, I established the General Medicine Service (GMS) and created the Improving Bedside Cardiopulmonary Physical Examination Skills (ICE) curriculum. This service and

- curriculum is devoted to reinvigorating the culture of bedside medicine at The Johns Hopkins Hospital, by emphasizing the importance of time at the bedside and delivering focused physical examination instruction.
- 7/16-present Associate Program Director for Curriculum, 15% effort, Osler Medicine Residency Program; See description above
- 9/15-8/20 Director, TRIPLE (Transition to Residency and Internship and Preparation for Life) 15% effort, capstone course for 4<sup>th</sup> year medical students to prepare them for internship.
- 7/15-6/16 Member, American Thoracic Society Members in Training and Transition Committee
- 4/16-present Founder, Hopkins Bedside Medicine Society; Helped to create a bedside medicine society with the mission of reinvigorating the culture and practice of bedside medicine at the Johns Hopkins Hospital.
- 8/16-present ! Co-president (through 2021) and founding member, Society of Bedside Medicine (SBM); Helped to create an international bedside medicine society with colleagues from across the globe with the inaugural meeting at the Stanford Bedside Medicine Symposium in Palo Alto, CA in September 2017.
- 2/17-present ! Co-lead, Education Core, Johns Hopkins Center for Diagnostic Excellence, Armstrong Institute for Patient Safety and Quality; Helping to build an educational program that focuses on reducing diagnostic error and improving patient safety.
- 9/19-3/20 ! Lead, Maryland Special Pathogens Education Program – Designed an implemented educational program for Maryland frontline and assessment hospitals to care for patients with high consequence pathogens including COVID-19.

#### Educational Demonstration Activities to external audiences, on or off campus

The BCU has conducted hundreds of tours and educational sessions since 2016.

- 2017-2018** , Johns Hopkins Undergraduate Public Health Studies program: *Responding to Disasters: from Earthquakes to Ebola*  
 Johns Hopkins International Nurse Manager Academy from China  
 FEMA/ASPR/Dept of Defense (group of 10 military planners), Johns Hopkins Biocontainment Unit  
 US Air Force Medical Support Agency (group of 8 from Surgeon General's office)  
 UPMC Center for Health Security Tour (group of 15 visiting scholars from Taiwan)  
 Cecil County Health Department  
 Howard County Health Department  
 Penn State Hershey Medical Center  
 Department of Health and Human Services (HHS) delegation  
 Carroll County Health Department/Somerset County Health Department  
 Talbot County Health Department, Johns Hopkins Biocontainment Unit  
 United States Army Medical Research Institute for Infectious Diseases  
 Johns Hopkins Master of Health Administration program  
 Baltimore City Health Department  
 Kent County Health Department  
 Hartford County Health Department  
 Anne Arundel Health Department  
 Johns Hopkins University Program in Occupational Health  
 Berman Institute of Bioethics – Germs, Genes, Patients and Populations Course  
 National Ebola Training and Education Center  
 College of Health Sciences at Rochester Institute of Technology, Honors Students
- 2018-2019** , Health Security ELBI Tour  
 Dupont  
 Preventive Medicine Residency Tour and Talk  
 Department of Homeland Security and Health and Human Services Joint Survey Tool Assessment  
 Tour for Chinese Delegation, Drum Tower Hospital, Nanjing  
 Chinese Physician. Leadership Group  
 Representative from Federal University Pernambuco, Brazil  
 Anne Arundel County Office of Emergency Management, Johns Hopkins Biocontainment Unit  
 Office of Senator Van Hollen Staffer Tour  
 Price Waterhouse Coopers !

Biocontainment Unit Tour and Educational Session, College of Health Sciences at Rochester Institute of Technology, Honors Students

**2019-2020**

Johns Hopkins Medicine Administrative Fellows Program  
Children's National Hospital  
Johns Hopkins Volunteer Services  
Johns Hopkins Supply Chain Department, Johns Hopkins  
Fox 45 Baltimore  
Maryland Congressional Offices and Officials  
Pennsylvania Department of Health  
LifeStar Transport  
Shanghai Jiao Tong University School Medicine  
Freeman Hospital (UK), Johns Hopkins Biocontainment Unit  
Penn Medicine  
Johns Hopkins University Masters in Healthcare Administration Students  
Frederick Memorial Hospital  
Medstar Southern Maryland Hospital Center  
Lancaster Health Center, Pennsylvania  
Sinai Hospital, Baltimore  
The Hong Kong Polytechnic University  
Cedars-Sinai Hospital, California  
Johns Hopkins School of Nursing,  
NETEC Education Course Attendees  
Peninsula Regional Medical Center, Maryland  
DuPont  
Clean Space  
Johns Hopkins Occupational Health  
Delaware HCID Transport Team  
VCU Health, Johns Hopkins Biocontainment Unit

**2020-2021**

60 Minutes, Johns Hopkins Biocontainment Unit  
Office of Senator Van Hollen Staffer Tour, Johns Hopkins Biocontainment Unit  
Office of Senator Murray Staffer Tour, Johns Hopkins Biocontainment Unit  
Johns Hopkins University Community Affairs, Johns Hopkins Biocontainment Unit  
Johns Hopkins University School of Nursing, Johns Hopkins Biocontainment Unit  
Johns Hopkins Medicine Administrative Fellows Program, Johns Hopkins Biocontainment Unit  
Health Minister of Ecuador and Delegation

**RESEARCH ACTIVITIES**

**Research Focus**

During my early faculty career, I studied the role of lymphocytes and fibroblasts in acute lung injury fibroproliferation. In the Johns Hopkins Biocontainment Unit (BCU), my research focuses on improving the care of patients with highly infectious diseases, with an emphasis on the role of the built environment and PPE in safety. Since the start of the COVID-19 pandemic our research has shifted to understanding the pathobiology and clinical course of COVID-19 patients through the COVID-19 Precision Medicine Center of Excellence. Through our work at Hopkins and with the Society of Bedside Medicine, we are studying the impact of dedicated clinical skills curricula on attitudes, skills, behaviors and clinical outcomes.

**Research Program Building / Leadership**

2015-present Director, Biocontainment unit – The role of the built environment in the safety of healthcare workers and patients in the context of highly infectious diseases – In collaboration with the Applied Physics Lab we are developing new techniques to assess the risk of transmission of infectious diseases in various environmental settings, including the JHH BCU.

2016-2020 Co-PI – CEER grant with the Berman Ethics Institute – In collaboration with the Berman Ethics Institute, we are conducting research to better understand how advances in genomics can inform both provider and patient-specific decisions in the context of highly infectious diseases.

2020-present Director, COVID-19 Precision Medicine Center of Excellence – In collaboration with the Precision Medicine Analytics Platform (PMAP) we created the COVID-19 PMCOE. This center focuses on understanding the clinical manifestations of COVID-19 to learn about pathobiology and patient trajectories. We have developed several prediction tools and conducted retrospective analyses to understand the effectiveness of COVID-19 therapeutics and interventions.

## **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

### [System Innovation and Quality Improvement efforts within JHMI:](#)

See above sections on the JHH Biocontainment Unit and our clinical skills program

### [System Innovation and Quality Improvement efforts outside of JHMI:](#)

4/17 ! Member, The United States Air Force High Performance Team (HPT) to create an expeditionary biocontainment unit. Participated as a member of a HPT with the goal of creating a new mobile BCU capability for the United States Air Force.

See above sections on the Society of Bedside Medicine, HCL Healthcare program and the JHH Biocontainment Unit.

### [System Innovation and Quality Improvement Program Building/Leadership:](#)

See above sections on our clinical skills program, The Society of Bedside Medicine, HCL Healthcare program and the JHH Biocontainment Unit.

## **ORGANIZATIONAL ACTIVITIES**

### [Institutional Administrative Appointments](#)

|              |  |
|--------------|--|
| 2009         | Intern-selection committee member for the Osler Internal Medicine Residency Program                                    |
| 2008-2009    | Collaborative Practice Committee Member  |
| 2010-2013    | Pulmonary Division Curriculum Committee Member   |
| 2012-2013    | Education Committee Member, Department of Medicine   |
| 2014         | Admissions Committee Member, Perdana University Graduate School of Medicine  |
| 2014         | Information, Computing and Telecommunications (ICT) Committee member<br>Perdana University Graduate School of Medicine |
| 2014-present | Intern-selection committee member for the Osler Internal Medicine Residency Program                                    |
| 2014-present | Clinical Competency Committee – Division of Pulmonary and Critical Care  |
| 2014-present | Clinical Competency Committee – Osler Medical Residency Program  |
| 2014-2015    | Co-Chair – Genes to Society Working Group on Pedagogy  |
| 2014-2016    | Chair – Department of Medicine Office of Education Clinical Skills Working Group                                       |
| 2014-2017    | Associate Medical Director – Johns Hopkins Biocontainment Unit (BCU)   |
| 2015-present | Director of Education – Johns Hopkins Biocontainment Unit (BCU)  |
| 2015-present | Co-Chair, Biocontainment Unit Drill and Preparedness Committee   |
| 2015-2016    | Assistant Program Director for Curriculum, Osler Medical Residency program   |
| 2015-present | Founding member, Ombuds Office, Johns Hopkins University School of Medicine  |
| 2015-present | Member, Educational Policy and Curriculum Committee, Johns Hopkins University School of Medicine                       |
| 2015-present | Member, Clinical Skills and Clerkship Director Committee, Johns Hopkins University School of<br>Medicine               |
| 2016-present | Associate Program Director for Curriculum, Osler Medical Residency program   |
| 2016-present | Member, Emergency Mass Casualty Committee (EMCC)   |
| 2016-present | Clinical Coach, The Longcope Firm – clinical mentor for 2 residents in each class                                      |
| 2017-present | Medical Director, Johns Hopkins Biocontainment Unit  |
| 2017-present | Co-lead, Education Core, Armstrong Institute Center for Diagnostic Excellence  |
| 2020-present | COVID-19 Scare Resources Committee   |

2020-present COVID-19 Therapeutic Pilot Studies Review Committee  
 2020-present COVID-19 Therapeutic Guidance Committee  
 2020-present COVID-19 and Data Research Evaluation (CADRE) Committee  
 2020-present Data safety and monitoring board (DSMB) member for local Hopkin COVID-19 pilot studies

## Editorial Activities

### Editorial Board appointments

12/15-12/16 ! Oakstone Critical Care Reviews, Lead Editor for Chest section; Organized and edited monthly audio reviews for practicing pulmonologists.

### Journal peer review activities

2007 Reviewer, Journal of General Internal Medicine  
 2010-2016 Reviewer, Practical Reviews in Critical Care  
 2010-present Reviewer, Journal of Hospital Medicine  
 2012-2015 Reviewer, American Journal of Physiology, Lung Cellular and Molecular Physiology  
 2013-2015 Reviewer, Journal of Bronchology and Interventional Pulmonology  
 2013 Reviewer, Journal of Critical Care  
 2013 Reviewer, PLOS ONE  
 2014 Reviewer, Journal of Infection  
 2014-present Reviewer, American Journal of Medicine  
 2014 Reviewer, Transplant Infectious Disease  
 2015-present Reviewer, Annals of the American Thoracic Society  
 2015-present Reviewer, Health Security  
 2020-present Reviewer, New England Journal of Medicine  
 2020-present Reviewer, Journal of the American Informatics Association

### Advisory Committees, Review Groups/Study Sections

2015-present ! Steering Committee Member; Health and Human Services (HHS) Region 3 Ebola and Special Pathogens Preparedness Committee; Helped to formulate the HHS Region 3 Concept of Operations (CONOPS) for Ebola and other special pathogens preparedness  
 2015-present ! Steering Committee Member; Maryland State Ebola and Special Pathogens Preparedness Committee; Helped to formulate the Maryland State Concept of Operations (CONOPS) for Ebola and other special pathogens preparedness  
 2016-present ! Health Care Coalition (HCC) Emerging Infectious Diseases (EID) Exercise Workgroup; Help to organize statewide preparedness drills for Ebola and other special pathogens  
 2017 ! External Advisory Group: Health Sector Resilience Checklist for Highly Infectious Diseases. Center for Health Security. Johns Hopkins University Bloomberg School of Public Health. Baltimore, MD  
 2017 ! High Consequence Infectious Disease (HCID) Ambulance Team Advisory Council. Maryland Department of Health (MDH) in conjunction with Maryland Institute for Emergency Medical Services Systems  
 2018-present ! Member, Pulmonary-Allergy Drugs Advisory Committee (PADAC) of the Food and Drug Administration (FDA)  
 2018-present ! Member, Advisory Board for the International Conference of Education, Research and Innovation (ICERI), Seville, Spain  
 2018-present ! Member, Visiting Scholars Selection Committee, American Board of Medical Specialties  
 2018-present ! Member, Jeremiah A. Barondess Fellowship Selection Committee, New York Academy of Medicine and ACGME  
 2018-present ! Member, Advisory Committee, Johns Hopkins Center for Innovative Medicine (CIM)  
 2018-present ! Member, Selection Committee, Johns Hopkins Institute for Excellence in Education Berkheimer Faculty Scholar Award  
 2020-present ! Member, JHU COVID-19 Board Update Group  
 2020-present ! Medical advisor, Johns Hopkins COVID-19 Clinical Resource Center  
 2021-present National Special Pathogens System Core Advisory Group



## Professional Societies

|              |  |
|--------------|--|
| 2004-2010    | American Medical Association   |
| 2007-2018    | American Thoracic Society  |
| 2007-2018    | American College of Chest Physicians                                     |
| 2007-2010    | Society of Critical Care Medicine  |
| 2011-2013    | American Heart Association   |
| 2016-2017    | American Society of Microbiology   |
| 2016-present | New York Academy of Medicine, Fellow                                     |
| 2017-present | American College of Physicians, Fellow                                   |
| 2017-present | Society of Bedside Medicine, founder, past-president, Board of Directors |
| 2018-present | Royal College of Physicians of Edinburgh, Fellow                         |

## Conference Organizer

### JHMI/Regional

|            |   |
|------------|---|
| 2013, 2015 | Planning Committee – Update in Pulmonary, Critical Care and Sleep Medicine, Johns Hopkins University School of Medicine, Baltimore, MD                          |
| 2019 !     | Activity Co-Director, Armstrong Institute 3 <sup>rd</sup> Annual Diagnostic Excellence Summit, Johns Hopkins University School of Medicine, Baltimore, MD       |
| 2019 !     | National Ebola Training and Education Center (NETEC) Emerging Infectious Disease Workshop. Johns Hopkins University School of Medicine, Baltimore, MD           |
| 2019 !     | Planning Committee - John Conley Foundation Symposium on Humanism and Medicine: As if the Patient Mattered. Johns Hopkins University of Medicine, Baltimore, MD |

### National

|             |   |
|-------------|---|
| 2017-2020 ! | Planning Committee – Society of Bedside Medicine Annual Meeting and Poster Session at the Stanford 25 Bedside Teaching Symposium, Palo Alto, California |
|-------------|---|

### International

|             |  |
|-------------|--|
| 2013 !      | Organizer, International Center of Excellence (ICOE) Respiratory Update Conference, Yangon, Myanmar                  |
| 2018-2019 ! | Advisory Committee, 11 <sup>th</sup> International Conference of Education, Research and Innovation, Seville, Spain. |
| 2019-2020 ! | Advisory Committee, 12 <sup>th</sup> International Conference of Education, Research and Innovation, Seville, Spain. |

## Session Chair

### National

|         |   |
|---------|---|
| 5/14    | Obliterative Bronchiolitis – Where do we stand in 2014? American Thoracic Society International Conference, San Diego CA  |
| 10/15 ! | Global Case Reports in Obstructive Lung Disease (poster session). CHEST, Montreal, Canada   |
| 5/16 !  | Case Reports in Diffuse Parenchymal Lung Disease (poster session). American Thoracic Society International Conference, San Francisco, CA  |
| 10/16 ! | <b>Garibaldi BT</b> , Sedighi MR, Russell SW. Re-Invigorating the Practice of Bedside Medicine – A Practical Guide to Teaching at the Bedside. AAIM Skills Development Conference. National Harbor, MD. |
| 2/17 !  | Transporting Patients with Highly Contagious Diseases: Isolation, Treatment or Both? Symposium at the American Society of Microbiology Conference, Washington, DC.                                      |
| 2/17 !  | <b>Garibaldi BT</b> , Sedighi MR, Russell SW. Implementing Practical Bedside Teaching in Three Simple Steps. Society of General Internal Medicine Southern Regional Conference. New Orleans, LA         |

- 9/17 **Garibaldi BT**, Russell SW. Clinical Skills for the Practicing Physician. Stanford 25 Bedside Medicine Symposium. Palo Alto, CA
- 10/17 **Garibaldi BT**, Lee YZ, Clark B. A better way to assess physical exam skills: Direct observation and volunteer patients, AAIM Skills and Leadership Conference, Dallas, TX.
- 11/17 **Garibaldi BT**, Artandi M, Spacek L. Practical Physical Exam Skills. Annual Meeting of the Texas American College of Physicians (ACP), San Antonio, Tx
- 9/8/18 **Garibaldi BT**, Liu G, Niessen T, Kugler J, Zaman J. Integrating point of care ultrasound with the physical exam. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 9/8/18 **Garibaldi BT**, Luckin J, DiMarzio R, Elder A, Kothari N. A modified PACES program for U.S. clinical skills assessment. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 11/2/19 **Garibaldi BT**. The Assessment of Physical Examination and Communication Skills (APECS). Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.
- 11/2/19 **Garibaldi BT**, Liu G, Kumar A, Kugler J. Integrating point of care ultrasound with the physical exam. Stanford 25 Bedside Medicine Symposium, Palo Alto, Ca.

#### International

- 11/17 **Garibaldi BT**. Experiences and Trends in Health Sciences Education (2). 10<sup>th</sup> International Conference of Education, Research and Innovation, Seville, Spain.

#### Consultantships

- 2020-present Janssen Research and Development, LLC, I serve as an adjudicator in their COVID-19 vaccine trial.

## RECOGNITION

#### Awards, Honors

- 1995 Thomas Hunter Memorial Award, Hunter College High School, New York, NY
- 1995 ! Valedictorian, Hunter College High School, New York, NY
- 1999 ! *Phi Beta Kappa*, Harvard College, Cambridge, MA
- 1999 ! Summa cum laude, Harvard College, Cambridge, MA
- 1999 ! John Finley Traveling Fellowship (studied flamenco guitar in Spain for 1 year before medical school), Harvard College, Cambridge, MA
- 2004 ! Longcope Award for outstanding graduating student in internal medicine, Johns Hopkins University School of Medicine, Baltimore, MD
- 2004 ! *Alpha Omega Alpha*, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007 Daniel Baker Award for resident most exemplifying the ideals of the Osler Medical Service, Johns Hopkins University School of Medicine, Baltimore, MD
- 2009 ! Interventional Bronchology Case Report Award, CHEST, Philadelphia, PA
- 2010 ! Ruth L. Kirschstein National Research Service Award (NRSA)
- 2011 American Thoracic Society Travel Award, Denver, CO
- 2011 ! NIH Loan Repayment Award
- 2011 ! Respiratory Disease Young Investigators' Forum Grant for best basic science presentation, Atlanta, GA
- 2012 ! American Thoracic Society Travel Award, San Francisco, CA
- 2012 W. Leigh Thompson Excellence in Research Award, Johns Hopkins University Department of Medicine Research Retreat 2012
- 2012 ! Pittsburgh International Lung Conference Travel Award and Judges Award, Pittsburgh, PA
- 2015 Maryland Hospital Association Distinguished Service Award, accepted on behalf of the Ebola Preparedness Team at the Johns Hopkins Hospital
- 2016 ! Jeremiah A. Barondess Fellowship in the Clinical Transaction awarded jointly by the Accreditation Council for Graduate Medical Education (ACGME) and the New York Academy of Medicine (NYAM)
- 2016 ! Berkheimer Faculty Education Scholar Grant, awarded by the Johns Hopkins Institute for Excellence in Education (IEE)
- 2016 Lisa J. Heiser Award for Junior Faculty Contribution in Education, awarded by the Johns Hopkins Institute for Excellence in Education (IEE)
- 2016 ! Fellow, New York Academy of Medicine
- 2017 ! American Board of Medical Specialties Visiting Scholar Award

2017 Fellow, American College of Physicians  
 2018 Educational Program Award, Johns Hopkins Institute for Excellence in Education (IEE)  
 2018 Selected as “Living the Hopkins Mission” honoree for the 125<sup>th</sup> Anniversary of the School of Medicine  
 2018 Douglas Carroll, MD Scholar, Johns Hopkins Bayview Center for Innovative Medicine  
 2018 Fellow, Royal College of Physicians of Edinburgh  
 2020 Member, Miller-Coulson Academy of Clinical Excellence  
 2020 Member, Medical team for President Trump when he was diagnosed with COVID-19  
 2021 Member, The Cosmos Club  
 2021 Johns Hopkins Clinical Excellence Award for Innovations in Clinical Care

## Invited Talks

### JHMI/Regional

2007 ! Thrombocytopenia in the ICU, Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2007 ! Propofol Infusion Syndrome, Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2008 ! Thyroid Storm, Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2008 ! Pulmonary Mucormycosis in Immunocompromised Patients, Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2008 ! Images of Osler, Department of Medicine, Medical Grand Rounds, The Johns Hopkins Hospital, Clinical Images presented monthly as part of grand rounds, Baltimore, MD  
 2009 ! Images of Osler, Department of Medicine, Medical Grand Rounds, The Johns Hopkins Hospital, Clinical Images presented monthly as part of grand rounds, Baltimore, MD  
 2009 The role of regulatory Tcells in acute lung injury fibroproliferation, Division of Pulmonary and Critical Care, Research in Progress Conference, The Johns Hopkins Hospital, Baltimore, MD  
 2010 ! The role of fibrocytes in acute lung injury fibroproliferation, Division of Pulmonary and Critical Care, Research in Progress Conference, The Johns Hopkins Hospital, Baltimore, MD  
 2011 ! Tregs decrease fibrocyte recruitment to the lung by altering CXCL12 signaling, Division of Pulmonary and Critical Care, Research in Progress Conference, The Johns Hopkins Hospital, Baltimore, MD  
 2012 ! Clinical Reasoning Applied to the Physical Exam, Student National Medical Association, The Johns Hopkins Hospital, Baltimore, MD  
 2012 ! An uncommon presentation of an uncommon disease, Harbor Hospital Department of Medicine, Medical Grand Rounds, Harbor Hospital, Baltimore, MD  
 2012 ! Granulomatous BOOP, Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2013 The Role of Tregs in Lung Injury Fibroproliferation, Department of Medicine, Pulmonary Division Review, The Johns Hopkins Hospital, Baltimore, MD  
 2014 ! Clinical Reasoning – A case based approach, HCL Clinical Training Program, HCL Healthcare, Delhi, India (JHI Project)  
 2014 ! More common than we think? Division of Pulmonary and Critical Care Medicine, Pulmonary Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD  
 2015 ! Hopkins’ Response to Ebola, Global Health Institute Panel Discussion, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD  
 2015 ! Creating a New Biocontainment Unit, Johns Hopkins Department of Medicine, Medical Grand Rounds  
 2015 ! How to Give Effective Feedback, Chinese Hospital Delegation and Johns Hopkins Medicine International, The Johns Hopkins Hospital, Baltimore, MD  
 2015 How to Give Effective Feedback, HCL Clinical Training Program, HCL Healthcare, Delhi, India (JHI Project)  
 2015 Working with Teams: Principles of Emotional Intelligence, Group Dynamics and Communication HCL Clinical Training Program, HCL Healthcare, Delhi, India (JHI Project)  
 2016 ! Pulmonary Fibrosis and Alphabet Soup: How do we make the diagnosis of pulmonary fibrosis? Pulmonary Fibrosis Foundation Patient Support Group, The Johns Hopkins Hospital, Baltimore, MD  
 2016 ! Happy Birthday Stethoscope! (Why are you still here?), Johns Hopkins Medicine Grand Rounds, Baltimore, MD

- 2016 ! Creating the Johns Hopkins Biocontainment Unit, Chesapeake American Industrial Hygiene Association (AIHA) and American Society of Safety Engineers (ASSE) Educational Seminar, The Johns Hopkins University Applied Physics Laboratory, Laurel, MD
- 2016 ! A high stakes assessment of physical exam skills - Are we ready to put ourselves in the hotseat?, Johns Hopkins Medicine Grand Rounds, Baltimore, MD
- 2016 ! Creating the Johns Hopkins Biocontainment Unit, University of Maryland Medical Center Pulmonary Grand Rounds, Baltimore, MD
- 2016 ! Approach to acute lower back pain, HCL Clinical Training Program, HCL Healthcare, Delhi, India (JHI Project)
- 2017 ! An evidence-based approach to the pulmonary examination, HCL Clinical Training Program, HCL Healthcare, Delhi, India (JHI Project)
- 2017 ! Clinical Pedagogy at Johns Hopkins. Presented to visiting delegation from Mahidol University in Bangkok, Thailand, The Johns Hopkins Hospital, Baltimore, MD
- 2017 ! The Osler Internal Medicine Residency Program. Presented to visiting delegation from the Johns Hopkins International Chinese Executive Education Program, The Johns Hopkins Hospital, Baltimore, MD
- 2017 ! Physical Exam and the Art of Medicine. Johns Hopkins Medicine Grand Rounds, Baltimore, MD
- 2018 ! Reinvigorating the Physical Exam. Johns Hopkins Otolaryngology Grand Rounds, Baltimore, MD
- 2018 Incident Command and the BCU. Johns Hopkins Office of Emergency Management Continuing Education Seminar, Baltimore, MD
- 2018 ! Reinvigorating Physical Exam Skills. Maryland ACP Clinical Skills Symposium, Baltimore, MD
- 2018 ! Reinvigorating the Bedside Exam, Nanjing Drum Tower Hospital Education Conference, Nanjing, China (JHI Project)
- 2018 ! Reinvigorating the Bedside Clinical Exam, Medical Grand Rounds, Medstar Sinai Hospital, Baltimore, MD
- 2019 ! Bedside Teaching as Scholarship, Nanjing Drum Tower Hospital Education Conference, Nanjing, China (JHI Project)
- 2019 ! Reinvigorating the Bedside Clinical Exam, Medical Grand Rounds, Johns Hopkins Bayview Medical Center, Baltimore, MD
- 2019 ! Synergy and Interdependence amongst a Multidisciplinary Team (Panel Discussion), Johns Hopkins Department of Medicine Clinical Retreat, Baltimore, MD
- 2019 ! Reinvigorating the Bedside Clinical Exam, Maryland ACP Clinical Skills Workshop, St. Agnes Hospital, Baltimore, MD
- 2019 Use of Ultrasound in a Biocontainment Unit. National Ebola Training and Education Center (NETEC) Emerging Infectious Disease Workshop, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2019 ! Reinvigorating the Bedside Clinical Exam. 3<sup>rd</sup> US-China Forum on Faculty Development for Residency Training, Drum Tower Hospital, Nanjing, China
- 2019 ! Resuscitating the Bedside Clinical Exam. Johns Hopkins Medicine Board of Trustees Meeting, Baltimore, MD
- 2019 ! Resuscitating the Bedside Clinical Exam. Johns Hopkins Medicine Dean's Advisory Council Meeting, Baltimore, MD
- 2019 ! The Graduate Medical Education Laboratory (GEL). Medical Grand Rounds, The Johns Hopkins Hospital, Baltimore, MD.
- 2019 ! Resuscitating the Bedside Clinical Exam. Johns Hopkins Center for Innovative Medicine (CIM) International Advisory Board Meeting, Baltimore, MD
- 2019 ! The Osler Medical Residency Program. Johns Hopkins International Chinese Executive Exchange Program, Baltimore, MD (series of 3 lectures).
- 2020 ! The Five-Minute Moment to Teach Bedside Clinical Skills. Maryland ACP Annual Meeting, Baltimore, MD 2020.
- 2020 ! Resuscitating the Bedside Clinical Exam. Edmund G. Beacham 47th Annual Current Topics in Geriatrics, Baltimore, MD.
- 2020 ! The JHM COVID-19 Clinical Experience. Johns Hopkins Medicine Grand Rounds, Baltimore, MD (delivered via Zoom)
- 2020 ! The JHM COVID-19 Clinical Experience. Johns Hopkins Pediatric Grand Rounds, Baltimore, MD (delivered via Zoom)
- 2020 ! At the bedside during COVID-19. Medical Grand Rounds, St. Peter's University, New Brunswick, NY (delivered via Zoom)

- 2020 ! The Hypothesis Driven Physical Exam. Medicine Noon Conference. Johns Hopkins Hospital, Baltimore, MD (delivered via Zoom)
- 2020 ! The Hypothesis Driven Physical Exam. Medicine Noon Conference. Johns Hopkins Bayview Medical Center, Baltimore, MD (delivered via Zoom)
- 2020 ! Flying the Plane While Building It: Developing a Research Infrastructure During a Changing Pandemic. Health Informatics Grand Rounds, Johns Hopkins Hospital, Baltimore, MD (delivered via Zoom)
- 2020 ! Miller Coulson Academy of Clinical Excellence, Medical Grand Rounds, Johns Hopkins Bayview Medical Center (delivered via Zoom)
- 2020-2021 ! The Johns Hopkins 30-Minute COVID-19 Briefing: Expert Insights on What You Need to Know – Recurring guest on weekly webinar by the Johns Hopkins Coronavirus Resource Center.
- 2021 ! COVID Data Repositories Curated by Hopkins: Resources for Observational Research and Data Science. Medical Grand Rounds, Johns Hopkins Hospital, Baltimore, MD (delivered via Zoom, co-presented with Chris Chute)
- 2021 ! Treating COVID-19: The race to save lives. Johns Hopkins Medicine Dean’s Symposium (delivered via Zoom)
- 2021 ! The JH-CROWN Registry. MD Health IT Appreciation Forum. Maryland Department of Health (delivered via Zoom)

National

- 2010 Regulatory T-lymphocytes play a key role in the fibroproliferative response to Acute Lung Injury, American Thoracic Society International Conference, New Orleans, LA
- 2011 The role of Tregs in lung injury repair, Division of Pulmonary and Critical Care Medicine, Pulmonary Research Conference, Wake Forest University, Winston-Salem, NC
- 2011 ! Regulatory Tcells reduce fibroproliferation after LPS injury by decreasing fibrocyte recruitment to the alveolar space, Respiratory Disease Young Investigator’s Forum, Pittsburgh, PA
- 2012 ! Fibrocytes and Acute Lung Injury Fibroproliferation, Division of Pulmonary and Critical Care Medicine, Pulmonary and Immunology Research Conference, Duke University, Durham, NC
- 2014 ! New Treatments for Obliterative Bronchiolitis, American Thoracic Society International Conference, San Diego, CA
- 2015 ! Lessons Learned from Ebola, National Facilities Management and Technology (NFMT) Conference, Baltimore, MD
- 2015 Preparing for Ebola and the Next Potential Pandemic: Experience from Emory and Johns Hopkins Infectious Disease: A Health Facility Perspective to a Global Crisis, Health Facility Institute 26<sup>th</sup> Annual Symposium, Atlanta, GA
- 2015 ! Creating a Bedside Medicine Culture, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA
- 2016 ! Building a biocontainment unit: Lessons learned from The Johns Hopkins Hospital. Organizer and presenter of a Sunrise Seminar, American Thoracic Society International Conference, San Francisco, CA
- 2016 ! Creating a Bedside Medicine Culture, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA
- 2017 ! The Evolution of Mobile Biocontainment in the United States, American Society of Microbiology Biothreats Conference, Washington DC, 2017.
- 2017 ! The Creation of the Johns Hopkins Biocontainment Unit, United States Air Force High Performance Team (HPT) to create an expeditionary biocontainment unit, Alexandria, VA.
- 2017 ! Revitalizing the Physical Exam (Plenary Address), Annual Meeting of the Texas American College of Physicians (ACP), San Antonio, TX.
- 2017 ! TRIPLE: The Hopkins guide to student preparation for life beyond medical school. Preparing Medical Students to Transition to Residency: Creating a New Paradigm, NYU School of Medicine, New York, NY.
- 2018 The Johns Hopkins Biocontainment Unit, The National Institute for Occupational Safety and Health, Pittsburgh, PA
- 2018 ! Applying Assessment in a US Setting – The Hopkins Way. Third Annual Back to the Bedside Conference. St. Peters Hospital, New Brunswick, NJ.
- 2018 ! Reinvigorating the Physical Exam. Medical Grand Rounds, Stanford University, Palo Alto, CA.
- 2018 ! Direct Observation and Feedback to Improve Physical Examination Skills. American Board of Medical Specialties (ABMS) Annual Meeting, Las Vegas, NV.

- 2019 Update on the Johns Hopkins Biocontainment Unit. National Ebola Training and Education Center (NETEC) Annual Summit, Denver, CO.
- 2019 ! Resuscitating the Bedside Clinical Exam. Medical Grand Rounds, Wake Forest University, Winston-Salem, NC.
- 2019 ! An evidence-based approach to dyspnea. Medicine Noon Conference, Wake Forest University, Winston-Salem, NC.
- 2019 ! Teaching at the Bedside. 4<sup>th</sup> Annual IP Fellows Career Symposium, Association of Interventional Pulmonology Program Directors (AIPPD). Orlando, FL.
- 2020 ! Novel Methodologies to Enhance Staff Safety in a Biocontainment Unit. American Society of Microbiology Biothreats Conference, Arlington, VA.
- 2020 ! Medical Education and COVID 19: The GEL Study Pre and Post COVID. Medical Grand Rounds, University of Alabama at Birmingham, Birmingham, AL (delivered via Zoom).
- 2021 Building the plane while flying it: Developing a research infrastructure during a changing pandemic. The Society of Thoracic Surgeons International Conference (delivered via Zoom).
- 2021 ! Entering the Lion's Den: Conquering the COVID Unknown. The Society of Thoracic Surgeons International Conference (delivered via Zoom).
- 2021 ! The Physical Exam: Past, Present and Future. Medical Grand Rounds, St. Peter's University, New Brunswick, NJ (delivered via Zoom).

#### International

- 2013 ! Interstitial Lung Disease: State of the Art, International Center of Excellence at Yangon University, Yangon, Myanmar
- 2013 ! Interventional Pulmonology: An Update for the Practicing Pulmonologist, International Center of Excellence at Yangon University, Yangon, Myanmar
- 2013 ! Pleural Disease in the 21<sup>st</sup> Century, International Center of Excellence at Yangon University, Yangon, Myanmar
- 2014 ! Bronchiolitis Obliterans Organizing Pneumonia – An Interactive Case, Department of Medicine, Medical Grand Rounds, Hospital Kuala Lumpur, Kuala Lumpur, Malaysia
- 2017 ! Rekindling the culture of bedside medicine: A novel methodology to assess and teach bedside physical exam skills. 10<sup>th</sup> International Conference of Education, Research and Innovation, Sevilla, Spain.
- 2018 ! Direct observation and feedback to teach the physical exam to graduate medical trainees. 11<sup>th</sup> International Conference of Education, Research and Innovation, Sevilla, Spain.
- 2019 ! Reinvigorating the Bedside Clinical Exam. McMaster International Review Course in Internal Medicine (MIRCIM). Krakow, Poland.
- 2019 ! The Impact of Deliberate Practice and Assessment on Clinical Skills Attitudes, Knowledge and Performance. Medical Education Forum. Krakow, Poland.
- 2019 ! Resuscitating the Bedside Clinical Exam. Diagnostic Medicine Symposium. Royal College of Physicians of Edinburgh. Edinburgh, Scotland.
- 2019 ! Revitalizando el examen físico para practicar en el siglo (Revitalizing the physical exam for the 21<sup>st</sup> century – delivered in Spanish). 27<sup>th</sup> National Congress of Medicine, Buenos Aires, Argentina.
- 2020 ! The first 2 weeks of COVID-19 at The Johns Hopkins Hospital. Royal College of Physicians of Edinburgh Weekly COVID Conference. Online live talk to 4500 members of the RCPE and other guests from around the world.
- 2020 ! The JHM COVID-19 Experience. World Molecular Imaging Society Imaging of Infection Webinar Series (delivered via Zoom).
- 2020 ! The Physical Exam: Past, Present and Future? Society of Acute Medicine Annual Conference, Glasgow, Scotland (delivered via Zoom).
- 2020 ! COVID-19 Update, Citigroup Leadership, Baltimore, MD (delivered via Zoom)
- 2021 ! COVID-19 Update, Citigroup Leadership, Baltimore, MD (delivered via Zoom)

#### OTHER PROFESSIONAL ACCOMPLISHMENTS

##### Posters

1. ! Yousuf O, **Garibaldi B** and Sisson S. Evans Syndrome in an Adult: Diagnosis and Treatment. J Gen Intern Med. 2009 Apr; 24 (Supplement 1): S358-359.

2. ! Lake M, **Garibaldi B** and Sisson S. Tachycardia Induced Cardiomyopathy. J Gen Intern Med. 2009 Apr; 24 (Supplement 1): S358-359.
3. ! Quan S, Danoff S and **Garibaldi B**. Spontaneous Pneumomediastinum in the Setting of Inflammatory Myositis and Interstitial Lung Disease. Presented at Chest, 2009.
4. ! **Garibaldi B**, D'Alessio F, Files DC, Mock J, Chau E, Sidhaye R, King LS. Depletion of Regulatory T cells leads to increased fibroproliferation after LPS injury through a CXCL12 dependent pathway. Presented at ATS, 2011 (Travel Award Recipient).
5. ! **Garibaldi B**, D'Alessio F, Files DC, Mock J, Avalos C, Chau E, Eto Y, Aggarwal N, Sidhaye R, King LS. Regulatory Tcells reduce fibroproliferation after LPS-induced lung injury by decreasing fibrocyte recruitment through A CXCL12-dependent mechanism. Presented at ATS 2012 (Travel Award Recipient).
6. ! **Garibaldi B**, D'Alessio F, Files DC, Mock J, Avalos C, Chau E, Eto Y, Aggarwal N, Sidhaye R, King LS. Regulatory Tcells Reduce Fibroproliferation after LPS-induced Lung Injury by Decreasing Fibrocyte Recruitment Through A CXCL12 Dependent Mechanism. Presented at the Johns Hopkins Department of Medicine Research Retreat 2012 (W. Leigh Thompson Excellence in Research Award Recipient).
7. ! **Garibaldi B**, D'Alessio F, Files DC, Mock J, Avalos C, Chau E, Eto Y, Aggarwal N, Sidhaye R, King LS. Regulatory Tcells Decrease Acute Lung Injury Fibroproliferation By Reducing Fibrocyte Recruitment along the CXCL12-CXCR4 Axis. Presented at the Pittsburgh International Lung Conference 2012 (Travel Award and Judges' Award Recipient)
8. ! **Garibaldi B**, Aggarwal N, Sidhaye R, D'Alessio F, Mock J, Singer B, Mandke P, Chau E, Neptune E, King LS. Fibrocyte Recruitment Along the CXCL12-CXCR4 Axis Plays an Important Role in Smoke-induced Emphysema. Presented at ATS 2013.
9. ! Silhan L and **Garibaldi B**. Multi-Organ Fibrosis: When pulmonary fibrosis is not a single-organ disease. Presented at ATS 2104
10. !**Garibaldi B**, Feller-Kopman D, Molena D, Askin F, Silhan L. Focal Organizing Pneumonia Caused By Crack Cocaine Inhalation. Presented at ATS 2014
11. !**Garibaldi B**, Mandke P, Mock J, D'Alessio F, Singer B, Aggarwal N, Sidhaye R, King LS. Treg depletion leads to increased fibrocyte recruitment after bleomycin-induced lung injury. Presented at ATS 2014
12. !**Garibaldi B**, Ernst N, Langlotz R, Gimburg A, Iati M, Bova G, Trexler P, Clarke W, Biddison ELD, Gwon HS, Sauer L, Garrett MR, Gragnolati BA, Brower RG, Miller RG, Perl TM, Kelen GD, Maragakis LL. Establishing a New Biocontainment and Treatment Unit. Presented at the Department of Medicine Research Retreat, Johns Hopkins, Baltimore MD 2015
13. !**Garibaldi B**, Reimers M, Ernst N, Langlotz R, Gimburg A, Iati M, Bova G, Trexler P, Clarke W, Biddison ELD, Gwon HS, Sauer L, Garrett MR, Gragnolati BA, Brower RG, Miller RG, Perl TM, Kelen GD, Maragakis LL. Creating a New Biocontainment and Treatment Unit: The Johns Hopkins Experience. Presented at CHEST 2015
14. Scott A, Reimers M, Ernst N, Maragakis LL, Langlotz R, **Garibaldi B**. Self-Selector Attitudes in the Johns Hopkins Biocontainment Unit. Presented at the Johns Hopkins Bayview Research Symposium, Baltimore MD 2016.
15. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The New General Medicine Service at The Johns Hopkins Hospital. Presented at the Johns Hopkins Department of Medicine Research Retreat, Baltimore MD, 2016.
16. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The New General Medicine Service at The Johns Hopkins Hospital. Presented at the Johns Hopkins Institute for Excellence in Education (IEE) Education Conference, Baltimore MD, 2016.
17. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The New General Medicine Service at The Johns Hopkins Hospital. Presented at the Association of Program Directors in Internal Medicine (APDIM) Spring Conference, Las Vegas, NV, 2016
18. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The new Clinical Skills Service at the Johns Hopkins Hospital. Presented at the Mid-Atlantic Regional Society of General Internal Medicine Meeting, New York, 2016.
19. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The new Clinical Skills Service at the Johns Hopkins Hospital. Presented at the American Thoracic Society International Conference, San Francisco, 2016.
20. !**Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. Reinvigorating the culture of bedside medicine: The new General Medicine Service at the Johns Hopkins Hospital. Presented at the American Alliance for Academic Medicine Clinical Skills Conference, National Harbor, MD, 2016.

21. **Garibaldi B**, Gwon H, Brast S, Black V, Maragakis L. Ebola and Other Special Pathogen Preparedness: Lessons learned from the Maryland State Department of Health and Mental Hygiene (DHMH) and The Johns Hopkins Hospital (JHH). Presented at the National Healthcare Coalition Preparedness Conference, Washington D.C., 2016.
22. **Garibaldi B**, Rainwater-Lovett K, Pilholski T, Sage FC, Shaw-Saliba K, Sauer L, Bova G, Hamel J, Drewry D. Transmission of Fluorescent Aerosolized Particles in a Clinical Biocontainment Unit. Presented at the Bayview Research Symposium, Bayview Medical Center, Baltimore, Maryland, 2016.
23. **Garibaldi B**, Rainwater-Lovett K, Pilholski T, Sage FC, Shaw-Saliba K, Sauer L, Bova G, Hamel J, Drewry D. Transmission of Fluorescent Aerosolized Particles in a Clinical Biocontainment Unit. Presented at the Department of Medicine Research Symposium, Johns Hopkins Hospital, Baltimore, Maryland, 2016.
24. **Garibaldi B**, Rainwater-Lovett K, Pilholski T, Sage FC, Shaw-Saliba K, Sauer L, Bova G, Hamel J, Drewry D. Transmission of Fluorescent Aerosolized Particles in a Clinical Biocontainment Unit. Presented at the American Thoracic Society International Conference, Washington, DC, 2017.
25. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at the American Board of Medical Specialties Conference, Chicago, Illinois, 2017.
26. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at the Stanford 25 Bedside Medicine Symposium, Palo Alto, California, 2017.
27. **Garibaldi B**, Niessen T, Canzoniero J, Liu G, Manesh R, Corretti M, Kasper E, Stewart R, Brotman D, Cayea D, Desai S. A dedicated bedside curriculum improves intern confidence and performance in the cardiopulmonary examination. Presented at the Stanford 25 Bedside Medicine Symposium, Palo Alto, California, 2017.
28. Shaw-Saliba K, Sauer LM, Ruparelia C, Yazdi Y, Glancey M, Osei P, **Garibaldi BT**. Innovative Personal Protective Equipment for lower risk perception and improved provider comfort in Ebola and other high-risk outbreaks. Presented at the American Society of Tropical Medicine and Hygiene (ASTMH) Annual Meeting, Baltimore, MD, 2017.
29. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at Bayview Research Symposium, Baltimore, MD, 2017.
30. Liu G, Seonho S, Zhang C, Nassery N, Madrazo J, **Garibaldi B**. Attitudes, knowledge and clinical application of point of care ultrasound: A needs assessment for internal medicine interns. Presented at Bayview Research Symposium, Baltimore, MD, 2017.
31. Liu G, Shin S, Goerlich E, Zhang C, Nassery N, Madrazo J, **Garibaldi B**. Attitudes, Knowledge, and Clinical Application of Point of Care Ultrasound: A Needs Assessment of Internal Medicine Interns. Johns Hopkins Bayview Research Symposium, Baltimore, MD, 2017.
32. Liu G, Shin S, Goerlich E, Zhang C, Nassery N, Madrazo J, **Garibaldi B**. Attitudes, Knowledge, and Clinical Application of Point of Care Ultrasound: A Needs Assessment of Internal Medicine Interns. Johns Hopkins Department of Medicine Research Retreat, Baltimore MD, 2018.
33. Liu G, Shin S, Goerlich E, Zhang C, Nassery N, Madrazo J, **Garibaldi B**. Attitudes, Knowledge, and Clinical Application of Point of Care Ultrasound: A Needs Assessment of Internal Medicine Interns. Society of Hospital Medicine Annual Conference, Orlando, FL, 2018.
34. Zhang C, Liu G, **Garibaldi B**, Goerlich E, Nassery N. Point of Care Ultrasound Curricula in Internal Medicine Residency: A Scoping Review. Society of General Internal Medicine Annual Conference, 2018.
35. Zhang C, Liu G, **Garibaldi B**, Goerlich E, Nassery N. Point of Care Ultrasound Curricula in Internal Medicine Residency: A Scoping Review. Johns Hopkins Institute for Excellence in Education (IEE) Conference and Celebration, Baltimore, MD, 2018.
36. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at the American Thoracic Society International Conference, San Diego, 2018.
37. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at the Stanford 25 Bedside Medicine Symposium, Palo Alto, CA, 2018.
38. **Garibaldi B**, Niessen T, Lee Y, Desai SV, Clark B. Rekindling the culture of bedside medicine: A novel methodology to assess and teach the physical examination skills. Presented at the American Board of Medical Specialties (ABMS) Annual Meeting, Las Vegas, NV, 2018.
39. Sulmonte CJ, Hynes NA, **Garibaldi BT** (2019, January). *Developing a Statewide Education Program to Support a High Consequence Pathogen Preparedness Network*. Presented at the American Society for Microbiology Biothreats Conference, Arlington, VA, 2019.
40. Sharma A, Niessen T, Luckin L, Hughes R, Desai SV, **Garibaldi BT**. Common errors in the cardiac exam among graduate trainees. Presented at the Stanford 25 Bedside Medicine Symposium, Palo Alto, CA, 2019.



41. ! **Garibaldi BT**, Luckin L, Sharma A, Hughes R, Desai SV, Niessen T. The Assessment of Physical Examination and Communication Skills (APECS). Presented at the Stanford 25 Bedside Medicine Symposium, Palo Alto, CA, 2019.
42. Andersen KM, Mehta HB, Palamuttam N, Ford D, **Garibaldi BT**, Auwaerter PG, Segal JB, Alexander GC. Clinical Outcomes During COVID-19 Hospitalization: A Retrospective Cohort Study Comparing Immunocompromised to Immunocompetent Persons. *International Conference on Pharmacoepidemiology All-Access COVID-19 Sessions*, December 2020.

#### Oral/Podium Presentations

1. ! **Garibaldi, B.** Pancreatico-Broncho-Cutaneous Fistula from Necrotizing Pancreatitis. Presented at Chest, 2008 (Awardee, Best case report in Interventional Bronchology).
2. ! **Garibaldi B**, D'Alessio F, Files DC, Chau E, Sidhaye R, Fraig M, King LS. Regulatory T-lymphocytes Play a Key Role in the Fibroproliferative Response to Acute Lung Injury. Presented at ATS, 2010 (speaker).
3. ! **Garibaldi B**, D'Alessio F, Mock J, Files DC, Chau E, Aggarwal N, Sidhaye R, King LS. Regulatory Tcells reduce fibroproliferation after LPS injury by decreasing fibrocyte recruitment to the alveolar space. Presented at the Respiratory Disease Young Investigators' Forum, 2011 (Awardee, Best basic science presentation).
4. ! Drewry D, Rainwater-Lovett K, Pilholski T, Sage FC, Shaw-Saliba K, Sauer L, Bova G, Hamel J, Drewry D, **Garibaldi B.** Transmission of Fluorescent Aerosolized Particles in a Clinical Biocontainment Unit. Presented at the American Society of Microbiology Biothreats Conference, Washington DC, 2017.
5. ! Liu G, Shin S, Goerlich E, Zhang C, Nassery N, Madrazo J, **Garibaldi B.** Attitudes, Knowledge, and Clinical Application of Point of Care Ultrasound: A Needs Assessment of Internal Medicine Interns. Johns Hopkins Institute for Excellence in Education (IEE) Conference and Celebration, Baltimore, MD, April 2018.