



SOCIETY OF BEDSIDE MEDICINE



Annual Report 2019

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Introduction

The Society of Bedside Medicine is a global community of physician educators dedicated to bedside teaching and improving physical examination and diagnostic skills. The purpose of the Society of Bedside Medicine is to foster a culture of bedside medicine through deliberate practice and teaching, and by encouraging innovation in education and research on the role of the clinical encounter in 21st century medicine.

Mission and Vision

The bedside encounter between a patient and physician is central to the practice of medicine. Its role is foundational to accurate diagnosis and high-quality patient-centered care. The bedside encounter provides the basis for trust and healing for the patient but is also an important source of fulfillment and satisfaction for the physician. The Society for Bedside Medicine was formed by a global community of physician educators dedicated to bedside teaching and improving bedside diagnostic skill. The purpose of the society is to foster a culture of bedside medicine through deliberate practice and teaching at the bedside, and by encouraging innovation in education and research on the role of the clinical encounter in 21st century medicine.

Board Members

We currently have 12 board members and 3 Advisory Council Members.

Brian Garibaldi	Co-President
John Kugler	Co- President
Timothy Niessen	Treasurer
Stephen Russell	Director of Education
Maja Artandi	Director of Member Engagement/Acting Secretary
Errol Ozdalga	Director of Communications
Lars Osterberg	Founding Board Member
Sonoo Thadaney	Founding Board Member
Junaid Zaman	Founding Board Member
Andrew Elder	Founding Board Member
Sharon Onguti	Founding Board Member
Nicola Zammit	Board Member
Anna Dover	Board Member
Abraham Verghese	Advisory Council
Nayan Kothari	Advisory Council
Stephen McGee	Advisory Council

Table 1. Board and Advisory Council Members

Membership

The Society of Bedside Medicine offers 2 different membership options: institutional and individual.

Institutional Members

Institutional memberships cost \$4,000 for a two-year membership period. This institutional membership comes with 10 individual faculty memberships, as well as recognition on the Society of Bedside Medicine website. We currently have 10 institutional members with more on the way!

1. Johns Hopkins University School of Medicine (Founding)
2. Stanford University School of Medicine (Founding)
3. University of Alabama, Birmingham School of Medicine (Founding)
4. Lahey Hospital
5. Wake Forest University School of Medicine
6. University of Edinburgh School of Medicine
7. The Royal College of Physicians of Edinburgh
8. Texas Tech University Health Sciences Center
9. St. Peter's University Hospital
10. Johns Hopkins Bayview Medical Center

Individual Members

Individual memberships cost \$100 and come with access to member-only content including a library of 5-Minute Moments, the Blaufuss Multimedia cardiovascular assessment and interactive tutorial, opportunities to submit workshop proposals for the Stanford 25 Bedside Medicine Symposium, and the ability to submit 5-minute Moment ideas for publication on the website. As of October 20, 2019, we have 259 individual members representing almost 150 institutions across 19 countries.

Medical students and graduate trainees can join at a discounted rate of \$50. Developing country membership cost is based on the World Bank Development Classification. Band A and B countries pay the full price membership fee of \$100, while B and C and D countries pay a reduced fee of \$50.

Membership by Month in 2019

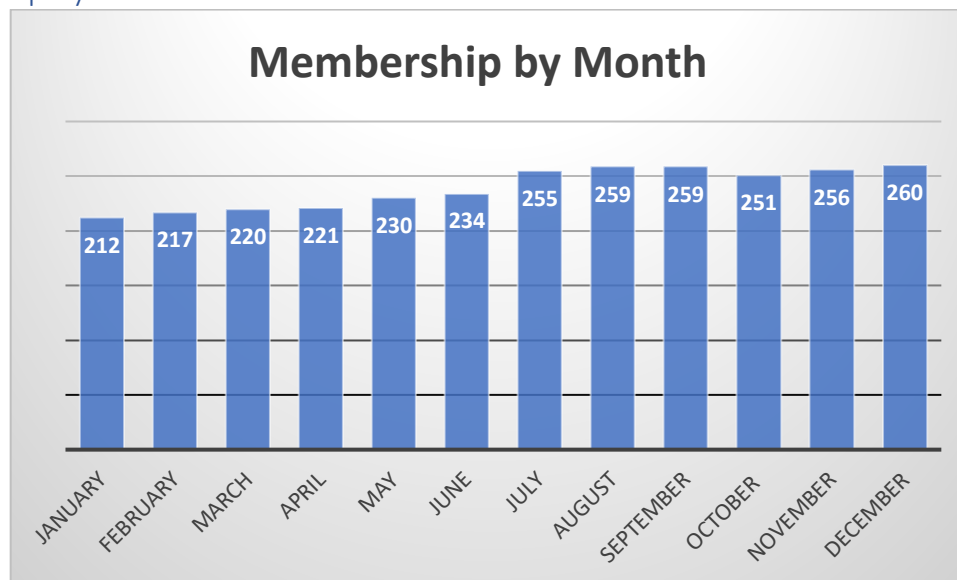


Figure 1. Membership Numbers by Month

Professional Specialty

Anesthesia	4
Cardiology	10
Critical Care	5
Dermatology	1
Emergency Medicine	11
ENT	1
Family Medicine	16
Gastroenterology	2
Geriatrics	10
Heme	2
Infectious Disease	11
Internal Medicine	111
Nephrology	4
Neurology	2
Ob/Gyn	3
Oncology	3
Ortho	1
Other	21
Palliative Care	3
Pediatrics	4
Pulmonary	1
Rheumatology	3
Surgery	1

Level of Training

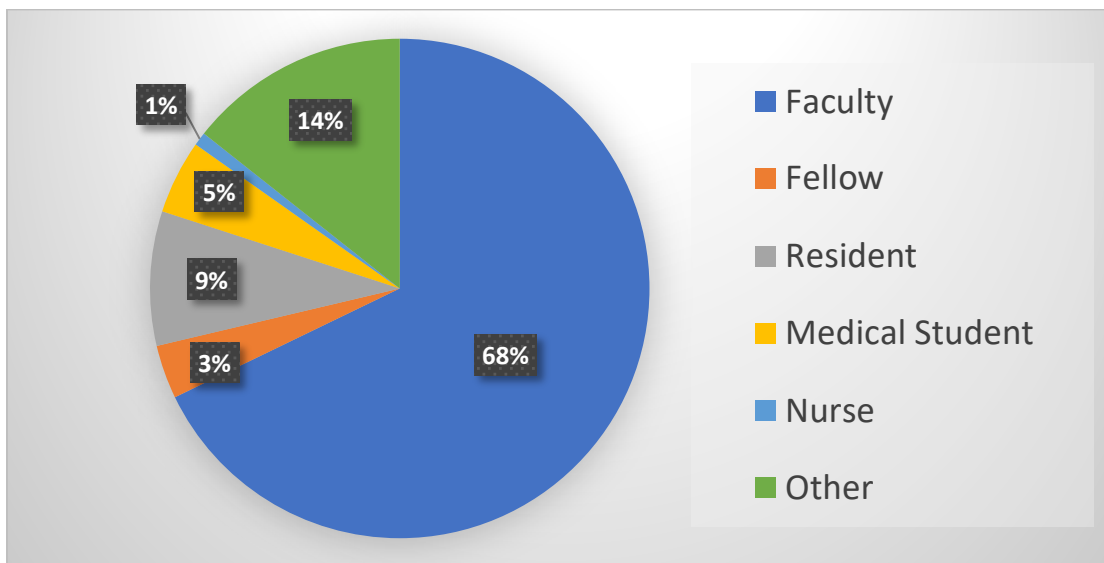


Figure 2. Member level of training

Resources

Society of Bedside Medicine members have access to high quality teaching and assessment resources including a library of Five-minute Moment (5M2) teaching vignettes and Blaufuss multimedia cardiovascular software.

The Minute Moment (5M2)

The 5M2 Working Group is led by board member Stephen Russell. Members are given the opportunity to contribute unique 5M2 ideas, which are then edited by the working group for publication on the Society of Bedside Medicine website. A template is available on the Society of Bedside Medicine website for submission. We currently have 16 5M2s on the website.

Blaufuss Multimedia Software

Blaufuss Multimedia partnered with the Society of Bedside Medicine to make two outstanding teaching and assessment tools available to our members as part of their membership benefits. Members can use the validated Cardiovascular Examination (CE) to assess the cardiovascular skills of their learners and colleagues. Members can also use the Cardiac Interactive software to teach elements of the cardiac examination using real patient cases that incorporate video, auscultation recordings with a moveable stethoscope, electrocardiograms, echocardiograms and hemodynamic tracings.

Murmurs of the Month

Members have access to 11 “Murmurs of the Month” cases that have been compiled and edited by Juliette Power, a chief resident at Allegheny General Hospital in Pennsylvania.

Social Media

The Society of Bedside Medicine has an account on Twitter, Facebook and Instagram. The Twitter followers grew from 98 followers in October 2018 to 826 followers in December 2019.

Coalition To Improve Diagnosis

The Society of Bedside Medicine joined the Coalition to Improve Diagnosis in August 2018. The Coalition, formed and led by the Society to Improve Diagnosis (SIDM), increases awareness and actions that reduce diagnostic error.

The Graduate Medical Education Laboratory (GEL)

The Society of Bedside Medicine is a proud member of the Graduate Medical Education Laboratory (GEL). GEL 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 as well as the Human Diagnosis Project and the Society of Bedside Medicine. This group was awarded a 5-year \$1.8million grant as part of the Reimagining Residency Initiative by the American Medical Association. The goal of the proposal is to examine the modifiable aspects of the residency training environment that impact trainee wellness and clinical skill. As part of the project, SBM faculty members will help to set up APECS clinical skills assessments at all 4 residency programs to provide real-time assessment of bedside clinical skills as well as feedback to improve resident performance. The hope is that the

SBM can then expand APECS to other member institutions interested in improving trainee clinical skills.

Non-Profit Status

The Society of Bedside Medicine is a 501c3 organization registered in Maryland (EIN 81-5330550) since April 2017. The board secured nonprofit liability insurance in June 2018.

Presentations at Regional and National Meetings

The Society of Bedside Medicine proudly co-sponsored several national and international meetings over the last year including:

- The Stanford 25 Clinical Skills Symposium. September 2018, Palo Alto, CA.
- The McMaster International Review Course in Internal Medicine (MIRCIM). May 2019, Krakow, Poland.
- 4th Annual Back to the Bedside Conference. May 2019, New Brunswick, NJ.
- Royal College of Physicians of Edinburgh Diagnostic Medicine Symposium. September 2019, Edinburgh, Scotland.
- The Stanford 25 Clinical Skills Symposium. November 2019, Palo Alto, CA.

In addition to co-sponsoring these events, the Society also directly led a number of workshops and activities focused on bedside medicine:

Sept 2018	Second annual poster session and general body meeting of the Society of Bedside Medicine, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA.
Sept 2018	Reinvigorating the Bedside Clinical Exam. Stanford Medicine Grand Rounds, Palo Alto, CA.
Sept 2018	Direct Observation and Feedback to Improve Physical Examination Skills. American Board of Medical Specialties (ABMS) Annual Meeting, Las Vegas, NV.
Nov 2018	Direct observation and feedback to teach the physical exam to graduate medical trainees. 11 th International Conference of Education, Research and Innovation, Sevilla, Spain.
February 2019	Point of Care Ultrasound Workshop. Maryland ACP Annual Meeting, Maryland.
March 2019	Assessing Physical Examination and Communication Skills (APECS). Armstrong Institute 3 rd Annual Diagnostic Excellence Summit. Baltimore, MD
March 2019	Reinvigorating the Bedside Clinical Exam, Maryland ACP Clinical Skills Workshop, St. Agnes Hospital, Baltimore, MD
April 2019	21 st Century Clinical Skills. Presented at the Waxman Clinical Skills Center. American College of Physicians (ACP) National Meeting. Philadelphia, PA.
May 2019	The physical exam in older adults, Edmund G. Beacham 46th Annual Current Topics in Geriatrics, Baltimore, MD

- May 2019 Maryland American College of Physicians (ACP) Clinical Skills Symposium.
- May 2019 Practical Bedside Skills for Clinicians and Educators. Medical Education Forum. Krakow, Poland.
- May 2019 Reinvigorating the Bedside Clinical Exam. McMaster International Review Course in Internal Medicine (MIRCIM). Krakow, Poland.
- May 2019 The Impact of Deliberate Practice and Assessment on Clinical Skills Attitudes, Knowledge and Performance. Medical Education Forum. Krakow, Poland.
- July 2019 Reinvigorating the Bedside Clinical Exam. 3rd US-China Forum on Faculty Development for Residency Training, Drum Tower Hospital, Nanjing, China
- Sept 2019 Resuscitating the Bedside Clinical Exam. Diagnostic Medicine Symposium. Royal College of Physicians of Edinburgh. Edinburgh, Scotland.
- October 2019 The Graduate Medical Education Laboratory (GEL). Hopkins Medicine Grand Rounds, Baltimore, MD
- October 2019 Resuscitating the Bedside Clinical Exam. Wake Forest Medical Grand Rounds, Winston-Salem, NC.
- Nov2019 Third annual poster session and general body meeting of the Society of Bedside Medicine, Stanford 25 Bedside Medicine Symposium, Stanford University, Palo Alto, CA.

Margaret Rock Memorial Award

This year, the winner of the annual poster session at the Stanford Clinical Skills Symposium received the inaugural Margaret Rock award, named in honor of a patient whose family donated in her honor to the Society of Bedside Medicine.



Figure 3. Dr. Roaya Khalaf won the best MedEd poster and was the inaugural winner of the Margaret Rock Memorial Award for her work entitled, "Relative preservation of triceps over biceps strength in upper limb-onset ALS: the split elbow."

Publications

Below is a list of high profile publications by Society of Bedside Medicine members since our last annual report.

1. Cahan EM, Hernandez-Boussard T, Thadaney-Israni S, Rubin DL. Putting the data before the algorithm in big data addressing personalized healthcare. *NPJ Digit Med.* 2019;2:78. PMID: 31453373
2. Chi J, Bently J, Kugler J, Chen J. *How are medical students using the Electronic Health Record (EHR)?: An analysis of EHR use on an inpatient medicine rotation.* *Plos 1* 14(8): e0221300.
3. 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
4. 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
5. Garibaldi BT and Russell SW. Strategies to Avoid the 'Hemolyzed' Physical Examination. *JAMA Intern Med.* July 2019.
6. 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
7. Israni ST, Verghese A. Humanizing Artificial Intelligence. *JAMA.* 2019 Jan 01;321(1):29-30. PMID: 30535297.
8. Kumar A, Kugler J, Jensen T. *Evaluation of Trainee Competency with Point-of-Care Ultrasonography (POCUS): a Conceptual Framework and Review of Existing Assessments.* *J Gen Intern Med.* March 2019. doi:10.1007/s11606-019-04945-4
9. 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.
10. Russell SW, Desai S, and Garibaldi BT. Burnout: A Crisis Among Physicians in Training. *The Baltimore Sun.* 21 June 2019. Print. [Online 20 June 2019].
11. Schwartz R, Haverfield MC, Brown-Johnson C, Maitra A, Tierney A, Bharadwaj S, Shaw JG, Azimpour F, Thadaney Israni S, Verghese A, Zulman DM. Transdisciplinary Strategies for Physician Wellness: Qualitative Insights from Diverse Fields. *J Gen Intern Med.* 2019 Jul;34(7):1251-1257. PMID: 31037542
12. Sterward, E., Kugler, J., Lim, M., *1519: Simulation for the Identification of Knowledge Gaps Among Trainees in Critical Care Scenarios.* *Critical Care Medicine,* 2019.
13. Waliany S, Caceres W, Merrell SB, Thadaney S, Johnstone N, Osterberg L. Preclinical curriculum of prospective case-based teaching with faculty- and student-blinded approach. *BMC Med Educ.* 2019 Jan 23;19(1):31. PMID: 30674302
14. Wiens J, Saria S, Sendak M, Ghassemi M, Liu VX, Doshi-Velez F, Jung K, Heller K, Kale D, Saeed M, Ossorio PN, Thadaney-Israni S, Goldenberg A. Do no harm: a roadmap for responsible machine learning for health care. [Erratum in: *Nat Med.* 2019 Sep 19; PMID:31537911] *Nat Med.* 2019 Sep;25(9):1337-1340.

Financial Report

This year has continued to be a year of financial growth for the Society of Bedside Medicine and we deeply thank our individual and institutional members who have contributed to our organization's financial solvency. We have also had several generous donors who have given gifts in honor of patients who have passed away. With the funding we have received we are dedicated to using our assets to promote our mission of fostering a culture of bedside teaching through deliberate practice and teaching, and encouraging innovation in education and research on the role of the clinical encounter in 21st century medicine.

The organization began the year of 2019 with a balance of \$40,865.25 and our current net account balance is \$ 65,935.59 as of December 28, 2019. The income earned by our organization has contributed to promoting bedside teaching through the licensing of Blaufuss software that helps our individual members improve cardiac examination skills at the bedside and supporting education through funding faculty travel to teach across the country and the world.

The Society of Bedside Medicine

PROFIT AND LOSS BY MONTH

January 1 - December 28, 2019

	JAN 2019	FEB 2019	MAR 2019	APR 2019	MAY 2019	JUN 2019	JUL 2019	AUG 2019	SEP 2019	OCT 2019	NOV 2019	DEC 1-28, 2019	TOTAL
Income													
Membership Dues	774.10	1,527.30	1,064.50	1,499.65	1,566.70	1,354.30	1,306.05	1,161.00	1,257.80	2,081.05	4,142.25	576.75	\$18,311.45
Services	0.00	0.00	5,025.00	0.00	0.00	0.00	3,300.00	0.00	0.00	0.00	1.79	0.00	\$8,326.79
Total Income	\$774.10	\$1,527.30	\$6,089.50	\$1,499.65	\$1,566.70	\$1,354.30	\$4,606.05	\$1,161.00	\$1,257.80	\$2,081.05	\$4,144.04	\$576.75	\$26,638.24
Cost of Goods Sold													
Cost of Goods Sold	0.00	0.00	0.00	0.00	0.00	0.00	1,089.00	0.00	0.00	0.00	0.00	0.00	\$1,089.00
Total Cost of Goods Sold	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,089.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,089.00
GROSS PROFIT	\$774.10	\$1,527.30	\$6,089.50	\$1,499.65	\$1,566.70	\$1,354.30	\$3,517.05	\$1,161.00	\$1,257.80	\$2,081.05	\$4,144.04	\$576.75	\$25,549.24
Expenses													
Office Supplies & Software	0.00	60.00	0.00	10.00	700.00	10.00	20.00	20.00	20.00	20.00	20.00	66.20	\$946.20
Other Business Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00	0.00	\$500.00
Taxes & Licenses	0.00	0.00	212.35	2,000.00	175.00	25.00	216.00	0.00	0.00	1,575.00	908.70	0.00	\$5,112.05
Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.00	0.00	\$73.00
Web Hosting Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,165.60	0.00	0.00	\$2,165.60
Total Expenses	\$0.00	\$60.00	\$212.35	\$2,010.00	\$875.00	\$35.00	\$236.00	\$20.00	\$20.00	\$3,760.60	\$1,501.70	\$66.20	\$8,796.85
NET OPERATING INCOME	\$774.10	\$1,467.30	\$5,877.15	\$-510.35	\$691.70	\$1,319.30	\$3,281.05	\$1,141.00	\$1,237.80	\$-1,679.55	\$2,642.34	\$510.55	\$16,752.39
NET INCOME	\$774.10	\$1,467.30	\$5,877.15	\$-510.35	\$691.70	\$1,319.30	\$3,281.05	\$1,141.00	\$1,237.80	\$-1,679.55	\$2,642.34	\$510.55	\$16,752.39

The Society of Bedside Medicine

BALANCE SHEET

As of December 28, 2019

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
SMALL BUSINESS CHECKING (2204)	65,935.59
Total Bank Accounts	\$65,935.59
Other Current Assets	
Uncategorized Asset	0.00
Total Other Current Assets	\$0.00
Total Current Assets	\$65,935.59
TOTAL ASSETS	\$65,935.59
LIABILITIES AND EQUITY	
Total Liabilities	
Equity	
Retained Earnings	49,183.20
Net Income	16,752.39
Total Equity	\$65,935.59
TOTAL LIABILITIES AND EQUITY	\$65,935.59

Goals for 2019-2020

Throughout the course of the year, we will continue to engage in the three core missions of the society: education, innovation and research on the role of the clinical encounter in 21st century medicine.

Education

We will develop and administer teaching and faculty development activities on a national and international level. In addition to our annual meeting at Stanford, we will sponsor a number of educational activities including:

- A clinical skills program in the Waxman Clinical Skills Center at the 2020 American College of Physicians Annual Meeting in Los Angeles, CA.
- A half-day workshop on point of care ultrasound at the Maryland College of Physicians Annual Meeting.
- Co-sponsoring the MIRCIM course in Krakow, Poland
- Co-sponsoring the annual Back to the Bedside Conference at St. Peter's University, New Brunswick, NJ.

Innovation

We will continue to partner with our institutional and individual members to create innovative content that can be used to both teach and assess bedside clinical skill. The Assessment of Physical Examination and Communication Skills (APECS) is an important component of the Graduate Medical Education Laboratory (GEL) study. This formative clinical skills assessment is an exciting way to teach fundamental bedside skill while also providing a way to gauge the “pulse” of bedside skill at a given institution. Johns Hopkins is in its second year of APECS where it has received rave reviews from both housestaff and faculty alike. We will expand APECS to Stanford and UAB as part of the GEL study, with plans to offer APECS to a wider audience in the coming years.

Research

We hope to collaborate with our institutional members to conduct research on the current state of bedside clinical skills teaching in both undergraduate and graduate medical education. We hope to build a body of evidence supporting the enduring importance of bedside clinical skills. We believe that improving bedside skill will reduce diagnostic error, decrease cost of care, and improve both patient and provider satisfaction with the clinical encounter. We are uniquely positioned as a society to conduct multi-center research projects in each of these important areas. The GEL study is the first in what we hope will be many multi-center collaborations featuring the Society of Bedside Medicine. We are also hoping to kick off a small grants program in 2020 to support small innovative projects by Society members.