ABEM’S MISSION
TO ENSURE THE HIGHEST STANDARDS IN THE SPECIALTY OF EMERGENCY MEDICINE

ABEM’S PURPOSES

To improve the quality of emergency medical care
To establish and maintain high standards of excellence in Emergency Medicine and its subspecialties
To enhance medical education in the specialty of Emergency Medicine and related subspecialties
To evaluate physicians and promote professional development through initial and continuing certification in Emergency Medicine and its subspecialties
To certify physicians who have demonstrated special knowledge and skills in Emergency Medicine and its subspecialties
To enhance the value of certification for ABEM diplomates
To serve the public and medical profession by reporting the certification status of the diplomates of the American Board of Emergency Medicine

ABEM holds the interests of patients and their families in the highest standing, particularly with regard to the provision of the safest and highest-quality emergency care. ABEM addresses its commitment to patients by supporting the physicians who provide care to the acutely ill and injured, and by working to transform the specialty of Emergency Medicine.

ABEM’S GUIDING PRINCIPLES

The following overarching principles will guide ABEM’s strategy and work going forward:

• Serve the public and the specialty
• Strengthen a culture of innovation in certification
• Embrace and integrate diversity, equity, and inclusion in all of our work
• Advance the values of trust, integrity, resilience, collaboration, empathy, and wisdom
• Collaborate with our stakeholders
• Communicate the value of certification
• Use research to inform and validate our certification and processes
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ABEM has accomplished so much! Take a look at our year in review.

MyEMCert is fully launched, with all eight module topics now available, new Key Advances for learning, additional resources provided, and CME available. Your feedback has been supportive of the new format, which allows you to fulfill your continuing certification requirements in a more convenient and relevant manner.

Understanding the potential negative effects that a delay in certification might cause, the Board set the ambitious goal to provide each physician who was not able to become certified due to postponed exams during the pandemic an opportunity to do so. A backlog of over 4,700 physicians were able to take the Oral Certification Exam virtually, a feat that we could not have accomplished without the Herculean efforts of the Board, volunteer oral examiners, and staff. Since the adoption of the virtual Oral Exam, over 5,000 physicians have become certified. Congratulations!

ABEM Director Leon L. Haley, Jr., M.D., M.H.S.A., died last summer as the result of a tragic accident. He was a dedicated contributor to the Board and will be remembered for his calm demeanor; his advocacy for diversity, equity, and inclusion; and his thoughtful presence—all with a quick and infectious smile. To honor Dr. Haley, ABEM created the Dr. Leon L. Haley, Jr., Bridge to the Future of Emergency Medicine Academy. This year, ten rising second-year medical students participated in the inaugural two-week mentorship program at the ABEM headquarters. The Academy provides underrepresented in medicine medical students educational and hands-on experiences on topics such as reducing health care disparities, increasing diversity in physicians, and applying to residency programs. Students also visited two nearby EM residency programs—Henry Ford Health Sim Center/Henry Ford Health EM Residency Program in Detroit, and Central Michigan University College of Medicine in Saginaw—where they took part in a simulated mass disaster triage, hands-on simulations, and learned about the use of ultrasound in the emergency department.

The Becoming Certified Initiative kicked off last year, and the work of the Task Force and Stakeholder Advisory Group began in earnest this year. A BCI summit was held in March, bringing the Task Force and Stakeholder Advisory Group together with representatives from other EM organizations to discuss where the initial certification process is and innovative ideas for where we might want to
The Task Force and Board have been exploring ideas generated during the Summit. Another first for ABEM was its administration of the Advanced EM Ultrasonography (AEMUS) Focused Practice Designation (FPD) Examination. Physicians had asked for the designation, and ABEM worked with the Ultrasound community since 2012 to have the FPD approved, fellowship requirements developed, and the AEMUS Exam Committee seated and writing the exam. The result: 284 EM physicians earned the designation this year! Kudos!

An accomplishment that enhances the value of your certification is ABEM’s accreditation by the National Commission for Certifying Agencies (NCCA). Being accredited by NCCA means that our certification processes have been evaluated against defined standards by an established third party. ABEM is the first medical specialty board to become accredited by the NCCA.

In the past, physicians whose certification lapsed due to retirement were designated by the ABMS as a “Former Diplomate.” We heard from retired physicians that they are proud to have been board certified during their careers and would like to be recognized in some other way. In response, ABEM now allows retired physicians to self-report their retirement and have their status reported to the ABMS as “Former Diplomate: Retired.”

As a Board we continue to listen to our stakeholders and try to initiate change and innovation that meet the needs of all certified emergency physicians. Many of the changes we’ve made have been in response to requests from you. It has also been a very rewarding year for me to serve as ABEM President. I have been fortunate to be able to work with a stellar Board of Directors, each of whom brings a wealth of knowledge and a variety of viewpoints to the table. And it’s been an honor to serve you—emergency physicians.

Finally, as an Emergency Medicine community, we continue to be impacted by the COVID-19 pandemic. We thank you for all you do to meet the needs of the public – you truly are our nation’s safety net.
Board of Directors

Executive Committee
Marianne Gausche-Hill, M.D., President
Samuel M. Keim, M.D., M.S., President-Elect
Mary Nan S. Mallory, M.D., M.B.A., Immediate-Past-President
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Diane L. Gorgas, M.D., Member-at-Large
James D. Thomas, M.D., Member-at-Large

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Suzanne R. White, M.D., M.B.A.

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Melissa A. Barton, M.D., Director of Medical Affairs
Chadd K. Kraus, D.O., M.P.H., Dr.PH., Director of Research

Associate Executive Directors
Timothy J. Dalton, Evaluation and Research
Jennifer L. Kurzynowski, Operations
Angela J. McGoff, Certification Services
Michele C. Miller, Systems and Technology
ABEM-CERTIFIED PHYSICIANS

42,325 current ABEM-certified physicians

7% are ABEM-issued subspecialty certified (3,075)

95% are EM residency trained

Data as of June 2022
Number of Current ABEM-certified Physicians

42,325 Total Active ABEM-certified Physicians (as of June 30, 2022)

Distribution of ABEM-certified Physicians by Age and Training*

*Completed an EM residency training program (July 1, 2022)
EXAMINATION ACTIVITY

Due to the COVID-19 pandemic, the planned 2020 administrations of the Oral Certification Examination were postponed. During 2021-2022, five administrations were held. The multiple administrations, plus those held in 2020-2021, allowed all candidates scheduled to take the 2020 exams, as well as those who passed the Qualifying Examination in 2020 and 2021 an opportunity to take the virtual exam in 2021-2022. 3,280 physicians took the Oral Exam between July 1, 2021 – June 30, 2022.

Regular Exam Activity

In 2021-2022, over 15,000 proctored examinations were administered, over 18,000 LLSA tests were completed, and over 13,600 MyEMCert modules were completed.

- 2,450 took the Qualifying Exam and 92% passed among first-time takers.
- 3,280 took the Oral Certification Exam and 92% passed among first-time takers.
- 183 took the ConCert Exam and 81% passed among ABEM-certified physicians.
- 9,260 took the In-training Exam.

13,638 MyEMCert modules completed
3,030 Newly certified physicians
11 Regained certification

Detailed, longitudinal statistics are available on the ABEM website.
The purpose of continuing certification is to maintain the highest standards of Emergency Medicine by partnering with physicians in their ongoing professional development; maintaining core knowledge, judgment, and skills; and integrating new medical advances in patient-centered care. ABEM believes that continuing certification assists physicians in realizing their intrinsic desire to be better clinicians and deliver safe, high-quality care.

**MyEMCert**

This year, the remaining two MyEMCert modules—Head and Neck and Nontraumatic Musculoskeletal—were launched. A new resource, teaching points, were developed for these two modules; teaching points will be developed for other modules. Key Advances were added and improved, and new videos related to Key Advances were issued.

**New LLSA Tests**

The 2022 Emergency Medicine LLSA test became available April 1, 2022, and the 2022 EMS LLSA test became available June 1, 2022. These activities provide additional opportunities for ABEM-certified physicians to tailor learning to their clinical practice.

### 2021-22 Top Five Improvement in Medical Practice Activities

<table>
<thead>
<tr>
<th>Rank</th>
<th>Activity</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Time-related (throughput time, ED length-of-stay, and other process time measures)</td>
<td>1,908</td>
</tr>
<tr>
<td>2</td>
<td>Stroke-related</td>
<td>1,054</td>
</tr>
<tr>
<td>3</td>
<td>Infectious Disease-related</td>
<td>965</td>
</tr>
<tr>
<td>4</td>
<td>Communication - Patient Care</td>
<td>721</td>
</tr>
<tr>
<td>5</td>
<td>Cardiac-related</td>
<td>608</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL Improvement in Medical Practice Attestations</strong></td>
<td><strong>7,166</strong></td>
</tr>
</tbody>
</table>
**First AEMUS Exam Administered**

ABEM administered the first focused practice designation examination in Advance Emergency Medicine Ultrasonography in March 2022. A total of 284 physicians earned the designation.

**First Neurocritical Care Exam Administered**

The American Board of Psychiatry and Neurology administered the first certification examination in Neurocritical Care (NCC) in October 2021. There are now 43 ABEM physicians subspecialty certified in NCC.

### Subspecialty Certification and Focused Practice Designation

<table>
<thead>
<tr>
<th>Subspecialty</th>
<th>Certificates Issued in 2021-2022</th>
<th>Total Current Subspecialists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Medical Services</td>
<td>178</td>
<td>1,058</td>
</tr>
<tr>
<td>Medical Toxicology</td>
<td>0 *</td>
<td>500</td>
</tr>
<tr>
<td>Pediatric Emergency Medicine</td>
<td>27</td>
<td>307</td>
</tr>
<tr>
<td>Internal Medicine-Critical Care Medicine</td>
<td>42</td>
<td>306</td>
</tr>
<tr>
<td>Sports Medicine</td>
<td>37</td>
<td>257</td>
</tr>
<tr>
<td>Clinical Informatics</td>
<td>NA</td>
<td>230</td>
</tr>
<tr>
<td>Hospice and Palliative Medicine</td>
<td>0</td>
<td>211</td>
</tr>
<tr>
<td>Addiction Medicine</td>
<td>NA</td>
<td>195</td>
</tr>
<tr>
<td>Undersea and Hyperbaric Medicine</td>
<td>9</td>
<td>131</td>
</tr>
<tr>
<td>Anesthesiology-Critical Care Medicine</td>
<td>23</td>
<td>117</td>
</tr>
<tr>
<td>Surgical Critical Care</td>
<td>NA</td>
<td>57</td>
</tr>
<tr>
<td>Neurocritical Care</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>Pain Medicine</td>
<td>4</td>
<td>17</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>362</strong></td>
<td><strong>3,428</strong></td>
</tr>
</tbody>
</table>

* Certification examination not offered in 2021.
NA: Information not available; certificates issued by other ABMS boards.

**3,428 ABEM-certified Physicians Hold a Subspecialty Certificate**

In 2021-2022, ABEM issued 362 subspecialty certificates in ten subspecialties. ABEM-certified physicians also have access to subspecialty certification in Addiction Medicine, Brain Injury Medicine, Clinical Informatics, and Surgical Critical Care through other ABMS Boards.

*Detailed longitudinal statistics available on the ABEM website.*
Over 700 clinically active physicians volunteered their services to ABEM this year, a force that is essential to ABEM’s success. Hundreds of examiners attended each administration of the virtual Oral Exam, spanned over 29 days of testing plus additional days of training. Forty-five item writers produce new questions for multiple choice tests each year for Emergency Medicine certification, continuing certification, and subspecialty exams. Additional ABEM activities supported by volunteers include the following:

- Standard-setting panels review each multiple choice question or Oral Exam case, rate its difficulty, and assess its importance to the certification of emergency physicians.
- Bias and Fairness Panels evaluate whether different outcomes (among different demographic groups) on test questions or cases are due to reasons not relevant to the practice of EM.
- Other task forces and advisory groups, such as the LLSA CME reading group and the stimulus Collection and Review Panel, assist in the certification and recertification processes.
- Resident Ambassador Panel members provide the perspectives of residents with certain ABEM activities, such as communication about the In-training Examination, applying for certification, the Residency Visitation Program, and the ABEM website.

Each of these volunteer physicians donate their time and effort to help assure that anyone certified in EM or any of its subspecialties meets the high standards expected of our specialty.

Thank you!

A complete list of ABEM volunteers is available on the ABEM website.
Subspecialty Representatives – ABEM Appointees

EMS Subboard
Douglas F. Kupas, M.D., Chair
Erica R. Carney, M.D.
Mohamud R. Daya, M.D.
Sophia Dyer, M.D.
William D. Fales, M.D.
Jeffrey M. Goodloe, M.D.
Alexander P. Isakov, M.D.
Katie L. Tataris, M.D.
Marianne Gausche-Hill, ABEM Director Liaison

Medical Toxicology Subboard
Tod Bania, M.D.
Robert G. Hendrickson, M.D., Chair
Christopher Hoyte, M.D.
Tammi H. Schaeffer, D.O.
Andrew Stolbach, M.D.
Lewis S. Nelson, M.D., ABEM Director Liaison

Neurocritical Care Examination Committee
Evadne Marcolini, M.D.
Jordan Bonomo, M.D.
William Knight, M.D. (standard setting committee)
Debbie Yi Madhok, M.D.
(standard setting committee)

Pediatric Emergency Medicine Subboard
David B. Burbulys, M.D.
Keri L. Carstairs, M.D.
Timothy A. Horeczko, M.D.
Nathan Mick, M.D.
Ramon W. Johnson, M.D., M.B.A.,
ABEM Director Liaison

Sports Medicine Examination Committee
Moira Davenport, M.D.
Andrew D. Perron, M.D.

Undersea and Hyperbaric Medicine Examination Committee
Heather Murphy-Lavoie, M.D.
Keith William Van Meter, M.D.

Focused Practice Designation Representatives

Advanced Emergency Medicine
Ultrasoundography Examination Committee
John L. Kendall, M.D., Chair
Srikar Adhikari, M.D.
John Bailitz, M.D.
Meghan K. Herbst, M.D.
Timothy Jang, M.D.
Robert Jones, D.O.
Megan M. Leo, M.D.
Andrew Liteplo, M.D.
Rachel Liu, M.D.

Pictured left to right: Meghan K. Herbst, M.D., Dr. Kendall, Megan M. Leo, M.D., Rachel Liu, M.D., John Bailitz, M.D., and Srikar Adhikari, M.D. Not pictured: Timothy Jang, M.D., Robert Jones, D.O., and Andrew Liteplo, M.D.
Remembering Leon L. Haley, Jr., M.D., M.H.S.A./Inaugural Haley Academy

ABEM Director Leon L. Haley, Jr., M.D., M.H.S.A., died last summer as the result of a tragic accident. He was a great dedicated contributor to the Board and will be remembered for his calm demeanor, his breakthrough insights, and his thoughtful presence—and all with a quick and infectious smile. To honor Dr. Haley, ABEM created the Dr. Leon L. Haley, Jr., Bridge to the Future of Emergency Medicine Academy. This year, ten rising second-year medical students participated in the inaugural two-week mentorship program at the ABEM headquarters, led by Yvette Calderon, M.D., M.S., Chair of the Diversity, Equity, and Inclusion Committee. The Academy provides URiM medical students educational and hands-on experiences on topics such as reducing health care disparities, increasing diversity in physicians, and applying to residency programs. Students also visited two nearby EM residency programs and where they took part in a simulated mass disaster triage and hands-on simulations. Watch the video to learn more about this year’s Academy.

NCCA Accreditation

ABEM has received accreditation from the National Commission for Certifying Agencies (NCCA). Being accredited by NCCA means that ABEM’s certification processes have been evaluated against defined standards by an established third party. Receiving accreditation demonstrates that ABEM has met the NCCA’s quality standards in professional certification. Accreditation is for a period of five years. ABEM is the first medical specialty board to become accredited by the NCCA.

Becoming Certified Initiative

A Becoming Certified Initiative summit was held in March, bringing the Task Force and Stakeholder Advisory Group together with representatives from other EM organizations to discuss where the initial certification process is and innovative ideas for where we might want to go. The Task Force and Board have been exploring ideas generated during the Summit.
Newly Elected Directors

The Board of Directors elected two new physician members in 2022: Susan E. Farrell, M.D., Ed.M., and Ernest E. Wang, M.D. Dr. Farrell is Director of Continuing and Professional Development in the Center for Interprofessional Studies and Innovation at the Mass General Hospital Institute for Health Professions. Dr. Wang is Chief of Emergency Medicine and Assistant Dean for Medical Education for the NorthShore University Health System, where he practices clinically. He is a Clinical Professor of Emergency Medicine through the University of Chicago Pritzker School of Medicine.

The specialty, and physician education. Dr. Kraus is joined by Jonah Geddes, M.P.H., as Research Biostatistician.

First Director of Research Named

Chadd K. Kraus, D.O., M.P.H., Dr.PH., was selected as ABEM’s first Director of Research. In this position, Dr. Kraus will lead the effort to build the research group at ABEM. Research initiatives will include analyses of certification programs,

New ABEM National Academy of Medicine Scholar Selected

The National Academy of Medicine (NAM) selected Tracy Madsen, M.D., Ph.D., as the 2021-2023 ABEM NAM Fellow. Dr. Madsen is an associate professor in the departments of Emergency Medicine and Epidemiology; co-director of the Rhode Island Hospital Comprehensive Stroke Center and the Miriam Hospital Stroke Center; and associate director of the Division of Sex and Gender at the Alpert Medical School of Brown University/Brown University School of Public Health/ Rhode Island Hospital in Providence, Rhode Island.

New Certification Status for Retired Physicians

In the past, physicians whose certification lapsed due to retirement were designated by the ABMS as a “Former Diplomate.” We heard from retired physicians that they are proud to have been board certified during their careers and would like to be recognized in some other way. In response, ABEM now allows retired physicians to self-report their retirement and have their status reported to the ABMS as “Former Diplomate: Retired.”

Milestone Recognition for Nearly 700 Physicians

ABEM recognizes physicians who, as of December 31, 2021, have marked 30 years of being board certified in Emergency Medicine with a special certificate. This year’s recipients included 688 physicians who had been board certified for 30 years as of December 31, 2021.

Certificates are awarded annually to diplomates who achieve this milestone. ABEM applauds these physicians who have demonstrated a career-long commitment to excellence. A list of the 2021 recipients is posted on the ABEM website.
In fiscal year 2020-21, ABEM realized $14,558,175 in operating income against $15,392,247 in operating expenses, for a positive operating margin of $1,512,654. At the same time, $2,346,726 came from investment income, for a net margin of (834,072). Data from ABEM’s 2021 Audited Financial Statement is provided below. ABEM has received GuideStar’s Platinum Seal of Transparency for the last four years.
Audited Statement of Financial Position
June 30, 2021

**Assets**

Current assets:
- Cash and cash equivalents: $2,066,028
- Accrued investment income: 83,120
- Prepaid expenses: 280,194
- Investments: 47,104,317
- **Total current assets**: $49,533,659

Other assets:
- Deposits: $160,000
- **Total assets**: $53,542,526

**Liabilities and Net Assets**

Current liabilities:
- Accounts payable: $161,714
- Accrued payroll and taxes: 25,170
- Deferred Revenue: 2,250,621
- Line of Credit: 5,000,000
- **Total current liabilities**: 7,437,505

Other liabilities:
- Compensated absences: $822,243
- **Total liabilities**: $8,259,748

Net assets/without donor restrictions: $45,282,778

**Total liabilities and net assets**: $53,542,526

**Revenues**: $22,890,481

**Expenses**

- Direct certification expenses: $6,306,000
- Governance: 1,800,331
- International: 10,121
- Office administration: 3,104,705
- Outreach/ liaison: 1,020,670
- Program development: 1,306,626
- Research: 178,758
- Subspecialties: 707,622
- Training/academic relations: 888,941
- Miscellaneous: 74,473
- **Total expenses**: $15,398,247

**Change in net assets**: $7,492,234

Net assets, at beginning of year: $37,790,544

**Net assets, at end of year**: $45,282,778

* Before other income and gains
Thank you for your legacy and contributions to the specialty of Emergency Medicine.

Jill M. Baren, M.D. 2012–2021
Carol D. Berkowitz, M.D. 2003–2006
Howard A. Bessen, M.D. 2002–2010
Paul D. Bruns, M.D. 1980–1983
Kerryann B. Broderick, M.D. 2011–2019
Michael L. Carius, M.D. 2009–2018
Joseph E. Clinton, M.D. 1986–1994
Robert E. Collier, M.D. 2004–2012
Lily C. A. Conrad, M.D. 2002–2010
O. John Ma, M.D. 2013–2019
Catherine A. Marco, M.D. 2009–2018
Mark A. Malangoni, M.D. 1998–2002
Henry D. McIntosh, M.D. 1979–1986
W. Kendall McNabney, M.D. 1982–1986
Harvey W. Meislin, M.D. 1986–1994
J. Mark Meredith, M.D. 2004–2012
Sheldon I. Miller, M.D. 1999–2006
John C. Moorhead, M.D. 2004–2014
Robert L. Muelleman, M.D. 2011–2019
John F. Murray, M.D. 1986–1989
Thomas K. Oliver, Jr., M.D. 1980–1981
Debra G. Perina, M.D. 2003–2011
Nicholas J. Piscano, M.D. 1979–1986
Roy M. Pitkin, M.D. 1990–1998
George Podgorny, M.D. 1976–1988
Peter T. Pons, M.D. 1996–2004
J. David Richardson, M.D. 1994–1998
Frank N. Ritter, M.D. 1979–1988
Peter Rosen, M.D. 1976–1986
Robert J. Rothstein, M.D. 1996–2004
Earl Schwartz, M.D. 1994–2002
Rebecca Smith-Coggins, M.D. 2007–2015
Mark T. Steele, M.D. 2003–2012
Richard M. Steinhilber, M.D. 1979–1980
Harold A. Thomas, M.D. 2001–2010
Robert Ulstrom, M.D. 1982–1986
Michael V. Vance, M.D. 1986–1995
Robert P. Wahl, M.D. 2012–2020