

2018

ANNUAL REPORT



EVIDENCE-BASED ASSESSMENT
IMPACTING PATIENT CARE

THE NBOME'S **MISSION**
IS TO **PROTECT THE PUBLIC**
BY PROVIDING THE MEANS
TO **ASSESS COMPETENCIES**
FOR **OSTEOPATHIC MEDICINE**
AND RELATED HEALTH CARE
PROFESSIONS.

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2018 Board of Directors

EVIDENCE-BASED ASSESSMENT: IMPACTING PATIENT CARE

A LITTLE BIT OF ART. And a whole lot of science. Both elements have been woven deep into the DNA of the NBOME and COMLEX-USA since our start, 85 years ago. The study of evidence, validity, reliability and defensibility – the science – is met with the art of assessment. Whether it be the precision of our test development processes, the rigor of our quality assurance, the commitment to best practices and high standards in assessment, or the breadth and significance of our peer-reviewed published manuscripts, we are reminded that what we do every day makes a difference in assuring patient safety. We are tremendously proud of our role helping to ensure licensed DOs are qualified to care for patients

by passing valid, evidence-based assessments designed specifically for osteopathic medical practice.

2018 marks a historic year for the NBOME as well as COMLEX-USA. After almost a decade of research and development, the successful implementation of the enhanced COMLEX-USA Level 3, as well as residency program attestation requirements, was a major milestone. The *Journal of Medical Regulation* (JMR), the Federation of State Medical Board's (FSMB) journal, published "Enhancing COMLEX-USA: Evidence-based Redesign of the Osteopathic Medical Licensure Examination Program" in October 2018, describing the evidence used, the competencies required, and the ways patients

present to DOs, as the foundation on which the enhanced COMLEX-USA examination blueprint was built. Further, in the same issue, JMR Editor-in-Chief Heidi M. Koenig, MD, applauded the NBOME's enhancement to the COMLEX-USA Level 3 examination blueprint as a "good example of how medical examiners can update their assessment systems to stay ahead of the curve of change...ensuring quality in medical practice, keeping our patients safe." Collaborative research with the FSMB on predictive validity of COMLEX-USA (currently under review

for publication) also demonstrates a strong correlation between successful completion of COMLEX-USA and a lower likelihood of state licensing board disciplinary action.

In November, the American Medical Association (AMA), endorsed COMLEX-USA with "AMA Resolution 955: Equality for COMLEX and USMLE," citing evidence for its validity and comparability, and resourcing efforts to share this information with the Accreditation Council for Graduate Medical Education (ACGME) residency program directors.

Additionally, we are pleased to share the ACGME's clarification that both COMLEX-USA and USMLE are acceptable assessments for residency and fellowship programs. And finally, ACGME's *Journal of Graduate Medical Education* published a manuscript supporting the use of COMLEX-USA as part of a holistic application review for residency programs.

As evidenced above, 2018 truly was a momentous year for the NBOME and our stakeholders. Our Board of Directors, our esteemed National Faculty, and our talented staff continue to embrace the challenges and opportunities that come our way through their commitment to continuous improvement and learning. We also acknowledge the contributions of our partner organizations in support of the profession of osteopathic medicine, related health care professions, and, most importantly, the patients we have the privilege to serve.

**John R. Gimpel, DO, MEd, President and CEO
and Dana C. Shaffer, DO, Board Chair**



EXECUTIVE COMMITTEE AND BOARD OF DIRECTORS



EXECUTIVE COMMITTEE
DANA C. SHAFER, DO
BOARD CHAIR
PIKEVILLE, KENTUCKY



EXECUTIVE COMMITTEE
GERALDINE T. O'SHEA, DO
BOARD VICE-CHAIR
JACKSON, CALIFORNIA



EXECUTIVE COMMITTEE
RICH J. LABAERE, II, DO, MPH
BOARD SECRETARY/
TREASURER
ORTONVILLE, MICHIGAN



EXECUTIVE COMMITTEE
RONALD R. BURNS, DO
WINTER PARK, FLORIDA
OUTGOING DEC. 2018



EXECUTIVE COMMITTEE
DAVID KUO, DO
BLUE BELL, PENNSYLVANIA
ELECTED TO EC DEC. 2018



EXECUTIVE COMMITTEE
JED G. MAGEN, DO, MS
EAST LANSING, MICHIGAN



EXECUTIVE COMMITTEE
ANITA L. SHOWALTER, DO
YAKIMA, WASHINGTON
ELECTED TO EC DEC. 2018



EXECUTIVE COMMITTEE
GARY L. SLICK, DO, MA
IMMEDIATE PAST CHAIR
TULSA, OKLAHOMA



EXECUTIVE COMMITTEE
KAREN T. SNIDER, DO
KIRKSVILLE, MISSOURI
OUTGOING DEC. 2018



PETER B. AJLUNI, DO
BLOOMFIELD HILLS, MICHIGAN



JAMES M. ANDRIOLE, DO
SARASOTA, FLORIDA



SUSAN I. BELANGER, PHD, MA, RN
LEWISTON, MAINE



ROBERT J. CORONA, JR., DO, MBA
SKANEATELES, NEW YORK
ELECTED DEC. 2018



MILLICENT KING CHANNELL, DO, MA
PHILADELPHIA, PENNSYLVANIA
OUTGOING DEC. 2018



H. TIMOTHY DOMBROWSKI, DO, MPH
STRATFORD, NEW JERSEY



J. MICHAEL FINLEY, DO
TUSTIN, CALIFORNIA
OUTGOING APR. 2018



JOHN L. GOUDREAU, DO, PHD
EAST LANSING, MICHIGAN



TERRI DONLIN HUESMAN, MBA
COLUMBUS, OHIO
PUBLIC MEMBER



MOLLIE M. JAMES, DO, MPH
CHARITON, IOWA



LORI A. KEMPER, DO, MS
GLENDALE, ARIZONA



ELIZABETH A. MCMURRY, DO
WALLA WALLA, WASHINGTON
ELECTED DEC. 2018



RICHARD A. ORTOSKI, DO
ERIE, PENNSYLVANIA



ROBERT G.G. PICCININI, DO
STERLING HEIGHTS, MICHIGAN
ELECTED DEC. 2018



DONALD H. POLK, DO
WAYNESBORO, TENNESSEE



MOUSUMI SOM, DO, MS
TULSA, OKLAHOMA



SAJID A. SURVE, DO
FLOWER MOUND, TEXAS
ELECTED DEC. 2018

SANTUCCI AWARD

Sydney L. Steele, JD, receives the 2018 Santucci Award



Sydney L. Steele, JD

THE SANTUCCI AWARD is bestowed on an individual for outstanding contributions to the mission of the NBOME — protecting the public by providing the means to assess competencies for osteopathic medicine and related health care professions. This award was established in 2009, named for Thomas F. Santucci, Jr., DO, president and chair of the NBOME Board from 1985-1987. The award honors his legacy of visionary leadership and advocacy, the effects of which drive the work of the NBOME to this day.

Sydney L. Steele, JD, received the Santucci Award, the NBOME's highest honor, on December 7, 2018. For almost 25 years, Mr. Steele has been a crucial part of the NBOME family. As NBOME's legal counsel, he has been indispensable in contracts, negotiations, and all manner of legal issues throughout the years. He is a recognized national authority on high stakes testing and testing accommodations, and has provided trusted counsel to 12 NBOME Board chairs and two full-time DO presidents.

Sydney L. Steele, JD, is a 1964 graduate of Indiana University at Bloomington School of Law. After law school he passed the Indiana state bar before serving three years in the U.S. Army, stationed in Germany, and attaining the rank of Captain. After his military service Mr. Steele returned to his home state of Indiana and began the private practice of law.

Mr. Steele has been senior counsel and partner at Kroger Gardis & Regas LLP since 2003 where his practice primarily focused on the Americans with Disabilities Act, civil construction, employment and contract litigation, and arbitration and mediation. He practiced law in Indiana as well as the Seventh Circuit Court of Appeals and the United States Supreme Court. In his community, he is president and board member of the Big Brothers of Central Indiana, and the Columbia Club. He is a board member and officer of the Center for Leadership Development, and co-founder of the Indianapolis Law Club.

CLARK AWARD

Barbara E. Walker, DO, honored with the NBOME Clark Award

THE NBOME CLARK AWARD FOR PATIENT ADVOCACY

was established in 2016 to recognize individuals who have demonstrated an unwavering advocacy for quality patient care by assuring the use of valid, osteopathically distinctive assessment for physician licensure at the state or national level. It is named after long-time NBOME Board public member and leader in medical regulation and state medical licensure, Mr. Gary R. Clark.

Barbara E. Walker, DO, was presented with the NBOME Clark Award for Patient Advocacy on December 7, 2018. Dr. Walker is an American Osteopathic Association board certified family physician with the family medicine residency program at New Hanover Regional Medical Center in Wilmington, North Carolina. She has spent more than 14 years there as a program director. Dr. Walker has also held other academic appointments in family medicine at the University of North Carolina at Chapel Hill, Edward Via College of Osteopathic Medicine–Virginia Campus and the University of Pikeville–Kentucky College of Osteopathic Medicine.

In 2013, Dr. Walker was appointed to the North Carolina Medical Board and was elected secretary/treasurer in 2016; in 2018, she was elected president. She served on the nominating committee for the Federation of State Medical Boards from 2014-2016 and has been president of the American Association of Osteopathic Examiners since 2017.

In 2018, Dr. Walker was recruited to the NBOME National Faculty and participates on the Comprehensive Osteopathic Medical Variable-Purpose Examination (COMVEX) advisory committee and has served as an expert panelist for COMLEX-USA Level 1 standard setting. Dr. Walker has dedicated her career to patient advocacy through her numerous contributions.



Drs. Gimpel, Walker, O'Shea, and Shaffer



Drs. Gimpel, Finley, Channell, Burns and Shaffer

2018 MERITORIOUS SERVICE AWARDS

IN 2018 THE NBOME RECOGNIZED ITS DEPARTING BOARD MEMBERS FOR OUTSTANDING SERVICE AND APPRECIATION FOR THEIR CONTRIBUTIONS TO THE NBOME.

RON R. BURNS, DO, was elected to the NBOME Board in 2009. In his time on the Board he has served on the Executive Committee, chaired the nominating committee and has been a member of the COMLEX-USA Level 3 advisory committee. Dr. Burns also previously served on the cognitive testing advisory committee. In addition to his work with NBOME, he is highly involved with the American Osteopathic Association (AOA). Since becoming an AOA member in 1989, Dr. Burns has served on a number of AOA committees and in 2008 was elected to the AOA Board of Trustees. In July 2018, Dr. Burns was elected as AOA president-elect at the AOA annual business meeting in Chicago and his one-year term will begin in July 2019. Dr. Burns completed his term on the Board of Directors in 2018.

MILLICENT KING CHANNELL, DO, MA, was elected to the NBOME Board in 2009 and has stood steadfast in her support of NBOME and its mission ever since. During her tenure, Dr. Channell has chaired the NBOME awards committee and served on the Executive Committee. She also served as a physician examiner for osteopathic manipulative medicine with the COMLEX-USA Level 2-PE, and as a member of the Level 2-PE advisory committee. After her departure, she will continue her work as assistant dean for curriculum and as a professor in the departments of osteopathic manipulative medicine and family medicine at Rowan University School of Osteopathic Medicine. She will also continue serving on the board of trustees at the American Academy of Osteopathy and doing committee work for the Accreditation Council for Graduate Medical Education. Dr. Channell completed her term on the Board of Directors in 2018.

J. MICHAEL FINLEY, DO, was elected to the Board in 2010, and has been involved with the NBOME in one form or another since 2000. Dr. Finley formally resigned his board position midyear when he was confirmed as NBOME's first Senior Vice President for Assessment. In addition to his work on the Board, Dr. Finley served on the Executive Committee from 2013-2016, and was an active member of the National Faculty. He has been involved in standard setting, COMAT, standards and assurances, facilities and space planning, and numerous COMLEX-USA Level 2-PE committees. In this new staff role, he provides oversight for the departments of Assessment Services, Collaborative Assessment & Initiatives and the Continuous Professional Development division.

2018 ITEM WRITER AND CASE AUTHOR AWARDS

IN DECEMBER 2018, the NBOME recognized the 2018 Item Writer and Case Author of the Year award winners from its distinguished National Faculty. Throughout the year, this group of individuals graciously volunteered their time and expertise in contributing to the COMLEX-USA and COMAT

examination programs. In addition to their professional roles, these volunteers wear a variety of hats – writing and reviewing test items, serving as physician examiners for the COMLEX-USA Level 2-PE, and supporting the NBOME mission to protect the public through assessment.

Each year the NBOME Board selects the best-in-class item writers and case authors among a large group of examination contributors. Congratulations to these esteemed awardees for their exemplary commitment in producing valid and high quality examination content.



**2018 COMLEX-USA Level 1 Item Writer of the Year
JONATHAN D. AUTEN, DO**

Dr. Auten is the associate program director for the emergency medicine residency program at the Navy Medical Center in San Diego, California. He joined the National Faculty in 2017, and has been a significant contributor to the COMLEX-USA Level 1 examination.



**2018 Clinical Decision Making Case Writer of the Year
TERESA M. KILGORE, DO**

Dr. Kilgore is discipline chair for internal medicine and associate professor for clinical medicine at the Edward Via College of Osteopathic Medicine – Carolinas Campus. She has been a member of the National Faculty since 2013, and is a significant contributor to clinical decision-making cases in COMLEX-USA Level 3.



**2018 COMLEX-USA Level 2-CE Item Writer of the Year
BRETT S. STECKER, DO**

Dr. Stecker is the medical director at Tristan Medical in Raynham, Massachusetts. He has been highly involved with the NBOME, contributing to clinical decision-making cases item writing, and serving on several examination committees. Dr. Stecker is experienced in working with the COMLEX-USA Levels 1, 2-CE and 3 examinations, and was previously awarded Item Writer of the Year in 2016.



**2018 COMLEX-USA Health Promotion Disease Prevention Item Writer of the Year
JASON T. EBERL, PhD**

Dr. Eberl is professor of health care ethics and director of the Albert Gnaegi Center for Health Care Ethics at St. Louis University. A member of the National Faculty since 2017, Dr. Eberl's expertise on medical ethics, jurisprudence, and professionalism has been important in the implementation of the enhanced Master Blueprint for the COMLEX-USA examinations.



**2018 COMLEX-USA Level 2-PE Case Author of the Year
MAURICE W. OELKLAUS, DO**

Dr. Oelklaus is associate dean for clinical affairs/clinical skills at Trinity University School of Medicine in Kansas City, Missouri. He has been involved in the National Faculty since 2014, principally with the COMLEX-USA Levels 1 and 2-PE examinations. Dr. Oelklaus specializes in family medicine, and is an important contributor to the Level 2-PE examinations as a SOAP Note Rater.



**2018 COMAT Item Writer of the Year
KATHERINE A. MITZEL, DO**

Dr. Mitzel is the associate dean for curricular integration and faculty development, as well as an associate professor of emergency medicine at the Arizona College of Osteopathic Medicine of Midwestern University. A member of the National Faculty since 2014, Dr. Mitzel has been a significant contributor to the COMAT-Emergency Medicine examination.



**2018 COMLEX-USA Level 3 Item Writer of the Year
MEGAN KREASE, DO, MS**

Dr. Krease is a pediatrician at All Children Pediatrics in Louisville, Kentucky. She has been a member of the National Faculty since 2016, and has contributed many items to the COMLEX-USA Level 3 exam, and the COMAT-Pediatrics examination.



**2018 COMAT Foundational Biomedical Sciences (FBS) Item Writer of the Year
REBECCA L. PRATT, PHD**

Dr. Pratt is a professor of anatomy in the department of biomedical sciences at the Oakland University William Beaumont School of Medicine. She has been a member of the National Faculty since 2014, and has been a key contributor to COMAT FBS and COMLEX-USA Level 1 examination items.

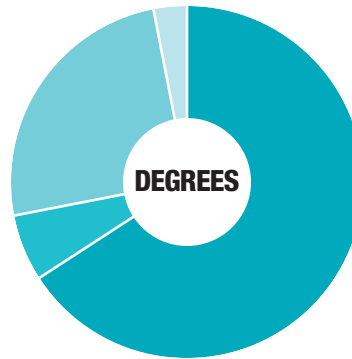


A CRITICAL COMPONENT

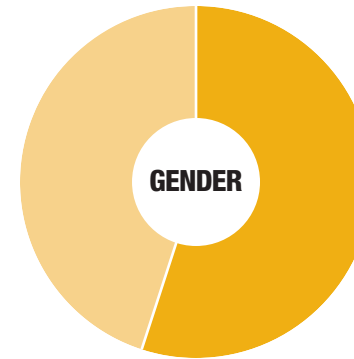
of the NBOME's mission, our diverse and dedicated National Faculty is comprised of over 700 active, engaged, credentialed subject matter experts and leaders from across the nation. The knowledge base represented by the National Faculty encompasses expertise in all osteopathic health professions and specialties, osteopathic medical education and evaluation, and osteopathic physician licensure and regulation. NBOME National Faculty serve on board, operational and examination committees; support the NBOME's strategic planning objectives; enhance and develop the COMLEX-USA Master Blueprint and the Fundamental Osteopathic Medical Competency Domains; write and review test items and cases; and serve as physician examiners to ensure the quality, efficacy, and ongoing development of examinations.

FOR A COMPLETE LISTING OF 2018 NATIONAL FACULTY VOLUNTEERS, PLEASE REFER TO THE ANNUAL REPORT SUPPLEMENT HERE www.nbome.org/publications/publications-reports.

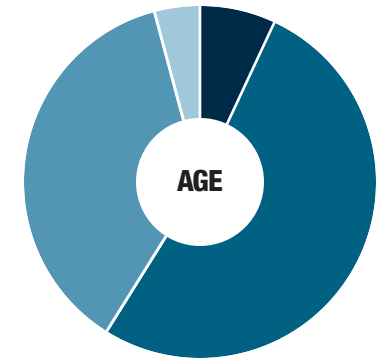
A DIVERSIFIED NATIONAL FACULTY



DO	66%
MD	6%
PHD	25%
OTHER	3%



MALE	55%
FEMALE	45%



AGES 18-34	7%
AGES 35-54	52%
AGES 55 AND OVER	37%
NOT AVAILABLE	4%



35
COLLEGES OF
OSTEOPATHIC MEDICINE

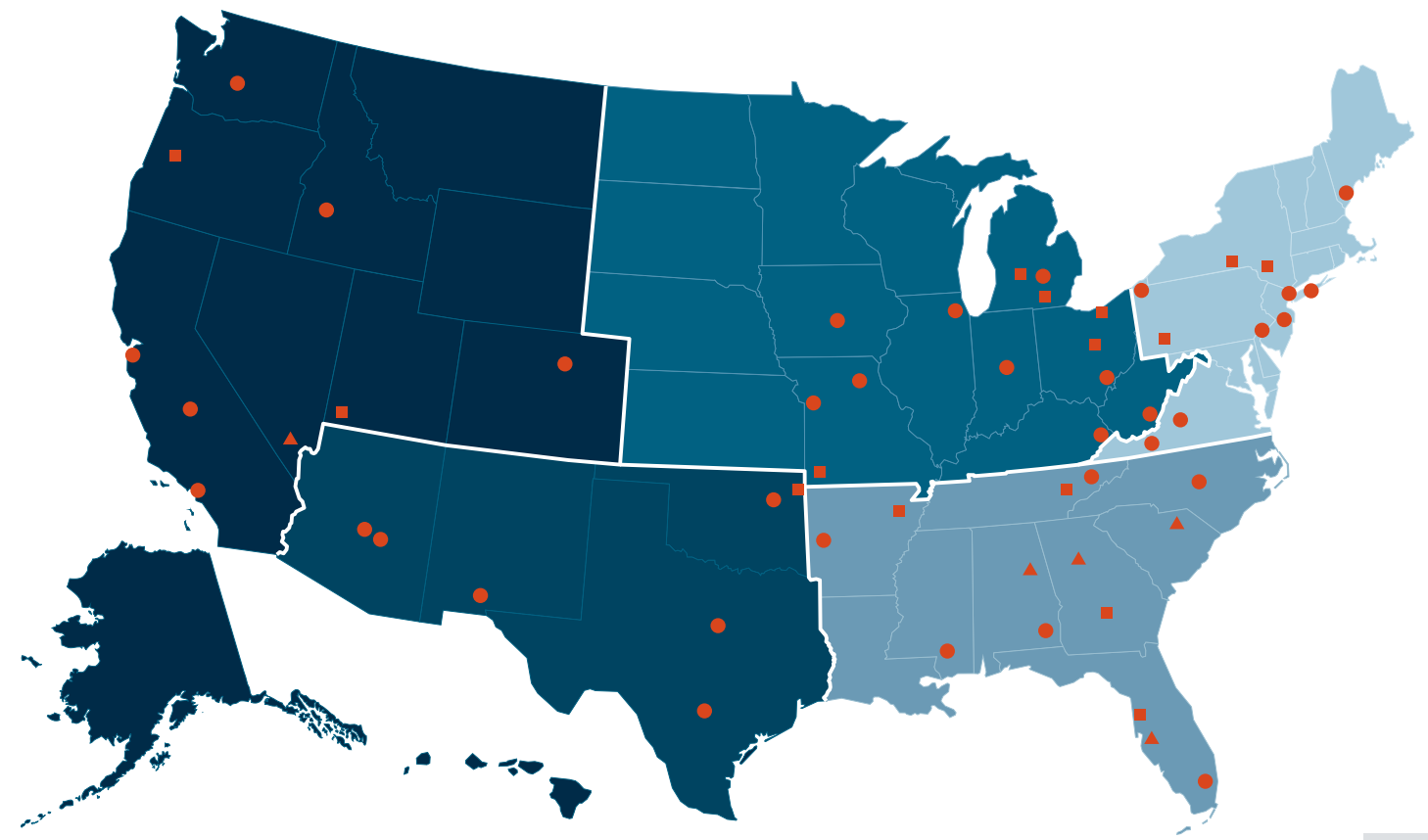
55
LOCATIONS

32
STATES

NATIONAL FACULTY BY REGION

WEST	105
SOUTHWEST	96
MIDWEST	212
SOUTH	121
NORTHEAST	217

- COLLEGES OF OSTEOPATHIC MEDICINE**
- CIRCLES INDICATE MAIN CAMPUS
 - SQUARES INDICATE ADDITIONAL SITE
 - ▲ TRIANGLES INDICATE BRANCH CAMPUS



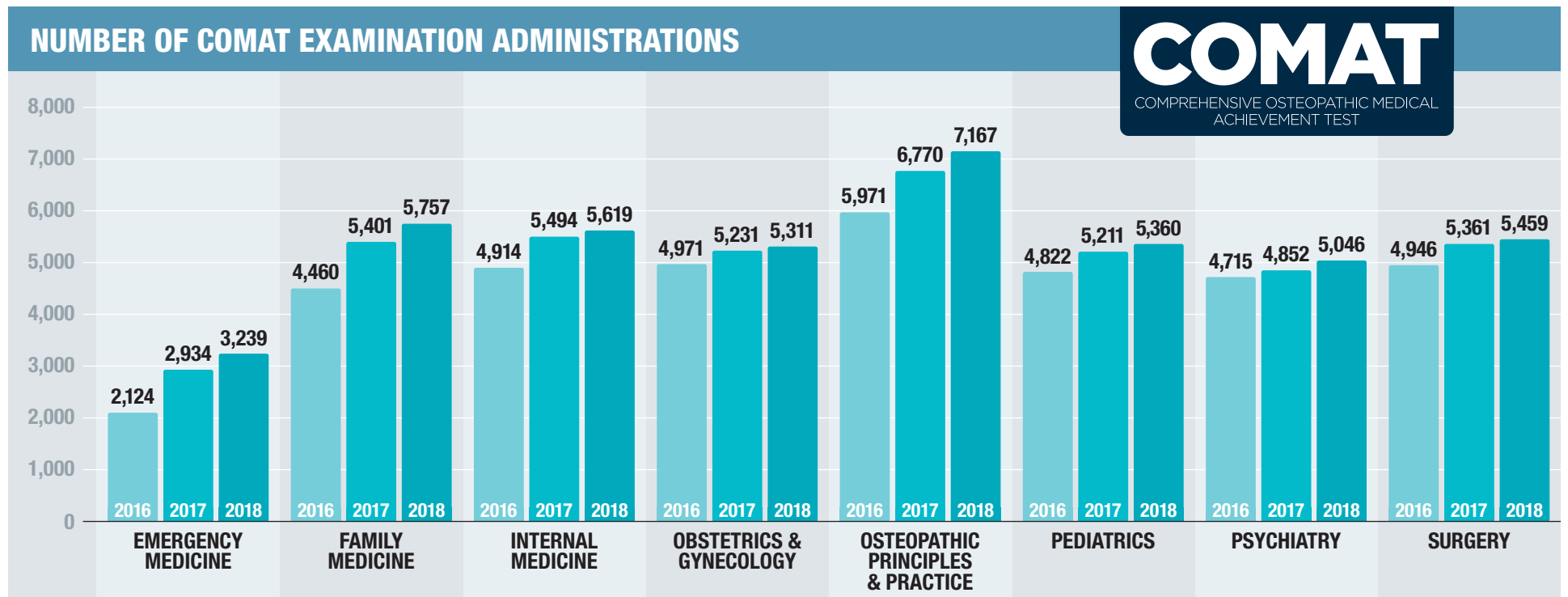
COMAT CLINICAL AND FBS

AFTER FIVE YEARS OF RESEARCH AND DEVELOPMENT, the COMAT Foundational Biomedical Sciences (FBS) Comprehensive examination, organized both by basic science disciplines and organ body systems, was made available to colleges of osteopathic medicine (COMs) beginning in December 2018. Between December 2018 and January 2019, a COMAT-FBS pilot was made available to COMs currently utilizing COMAT Clinical Subject exams, and approximately 2,000 students participated.

The first official test cycle of COMAT FBS Comprehensive is from March to November/December 2019, followed by a period of non-testing in November 2019 to enable NBOME to incorporate feedback from medical educators and COMs before offering 14 different COMAT-FBS Targeted exams with the COMAT-FBS

Comprehensive exam. Percent-correct scoring will be used for the initial 2018-2019 COMAT FBS Comprehensive examination, and the portfolio of COMAT-FBS Targeted examinations is expected to be made available by December 2019.

Almost all of the nation's COMs engaged with the use of the existing COMAT Clinical Subject exams in 2018, with the addition of several new COMs and two that are re-adding COMAT in 2018-2019. These unique assessments help to guide learning through osteopathically distinctive assessment in the clinical rotation years, aid in meeting important accreditation mandates and curricular goals, and serve to enhance learning as students prepare to demonstrate their competencies with COMLEX-USA Level 2-CE.



INNOVATION

CATALYST

CATALYST, NBOME's continuous assessment and learning platform, has been developed for use with a variety of testing and educational content in the NBOME portfolio and with our clients. It features relatively short test questions delivered over set periods of time via smartphone or tablet, email notifications that alert users of new questions, and immediate feedback that directs users to resources to continuously improve their knowledge.

With two specialty board pilots completed in 2017 (AOBIM and AOBP), this year saw the successful completion of a third pilot study with the AOA certifying board for obstetrics and gynecology (AOBOG). Like the two previous pilots, respondents were extremely pleased with the CATALYST platform — receiving two items per week, knowing immediately whether their response was correct or incorrect, receiving the rationale behind the responses, and having the opportunity to access additional references.

An additional pilot was completed in 2018 using COMSAE Phase 2 items. Of the 156 students who completed the beta study, 87 percent responded that the CATALYST platform provided a good opportunity for learning and reinforced the material they were learning in their curricula. Pilots will continue through 2019 with a planned launch of the upgraded CATALYST platform in 2019.

POCKET

Currently in development, Point-of-Care, Knowledge, Education and Testing (POCKET), endeavors to assess an individual's ability to access and utilize information at the point of care, an important element of practice-based learning and improvement, and everyday clinical practice that is currently not well tested. This novel assessment concept continues to be of great interest in the medical community at large.

With ongoing research and development, NBOME staff conducted a POCKET pilot with Philadelphia College of Osteopathic Medicine residents in the fall of 2018. At a recent case development and item writing session, dozens of new scenarios were developed and plans are in place to continue pilots into 2019.

JUNE 2009

Panel assembled to study and provide future design of COMLEX-USA

MAY 2014

New COMLEX-USA Master Blueprint dimensions and two-decision point, competency-based model released

JUNE 2011

Fundamental Osteopathic Medical Competency Domains (FOMCD) adopted

COMLEX-USA

COMPREHENSIVE OSTEOPATHIC MEDICAL LICENSING EXAMINATION

30,923
COMLEX-USA
EXAMINATIONS
ADMINISTERED



PERFORMANCE DATA FOR COMLEX-USA

	2015-16	2016-17	2017-18	
COMLEX-USA LEVEL 1 EXAMINATION PERFORMANCE	1 ST TIME TEST TAKERS	6,177	6,559	6,768
	PASSING	92.3%	92.7%	95.9%
	ALL TAKERS	6,790	7,181	7,185
	PASSING	90.3%	90.4%	94.7%
COMLEX-USA LEVEL 2-CE EXAMINATION PERFORMANCE	1 ST TIME TEST TAKERS	5,416	6,084	6,491
	PASSING	92.2%	93.2%	92.8%
	ALL TAKERS	6,033	6,662	7,117
	PASSING	89.6%	91.2%	90.8%
COMLEX-USA LEVEL 3 EXAMINATION PERFORMANCE	1 ST TIME TEST TAKERS	4,987	5,557	8,746
	PASSING	96.5%	96.7%	95.4%
	ALL TAKERS	5,245	5,791	9,147
	PASSING	95.4%	96.1%	94.7%

COMLEX-USA EXAMINATION CHAIRS



Janice A. Knebl, DO, MBA
COMLEX-USA Composite
Examination Committee



John E. Thornburg, DO, PhD
COMLEX-USA Level 1



David Kuo, DO
COMLEX-USA Level 2-PE



Charles A. Finch Jr., DO
COMLEX-USA Level 2-CE



Michael F. Oliverio, DO
COMLEX-USA Level 3

MARCH 2018
New COMLEX-USA Level 3 eligibility criteria takes effect

JULY 2017
Updated COMLEX-USA Master Blueprint published

SEPTEMBER 2018
First COMLEX-USA Level 3 two-day format exam administered

In 2018, the COMLEX-USA examination series was enhanced to reflect the evolving practice of osteopathic medicine. Developed to guide each level of the COMLEX series, the new, two-decision point, competency-based COMLEX-USA Master Blueprint and evidence-based design structure, released in 2016, has been informed by extensive research on actual osteopathic physician practice, expert consensus, and stakeholder surveys.

Implementation of the new COMLEX-USA Master Blueprint in the two-day Level 3 examination launched successfully in September of 2018 – a historic day for the NBOME. The examination expanded to two full days of testing in order to reliably assess across all seven competency domains and expanded novel item test formats that strengthen exams. Further work is underway to implement the enhanced Master Blueprint in Levels 1, 2-CE and 2-PE in 2019.

COMLEX-USA now incorporates residency faculty observation of professional behavior as part of Level 3 exam series requirements. Level 3 eligibility prerequisites now require that residents have attestation from a residency program director asserting the resident is in good academic and professional standing before they are permitted to register for the exam. These heightened requirements align with the NBOME's mission to protect the public, enhance professional self-regulation, and entrustability and value to state medical boards, members of the public and patients.

COMLEX-USA LEVEL 2-PE EXAMINATION PERFORMANCE	2015-16		2016-17		2017-18	
	N	% 1 ST TIME TAKERS	N	% 1 ST TIME TAKERS	N	% 1 ST TIME TAKERS
1 ST TIME TEST TAKERS	5,712	100.0%	6,211	100.0%	6,922	100.0%
PASS	5,309	92.9%	5,765	92.8%	6,454	93.2%
FAIL	403	7.1%	446	7.2%	468	6.8%
HUMANISTIC DOMAIN	131	2.3%	128	2.1%	129	1.9%
BIOMEDICAL DOMAIN	237	4.1%	277	4.5%	301	4.3%
BOTH DOMAINS	36	0.6%	41	0.7%	38	0.5%
ALL TAKERS	6,173		6,682		7,474	

>93% POST-EXAM SURVEYS OF COMLEX-USA CANDIDATES REPORTED >93% SATISFACTION WITH THE TEST EXPERIENCE.

5,853 COMLEX-USA LEVEL 3 PROGRAM DIRECTOR ATTESTATIONS



25,525
COMSAE EXAMINATIONS ADMINISTERED

COMSAE
COMPREHENSIVE OSTEOPATHIC MEDICAL SELF-ASSESSMENT EXAMINATION

GME OUTREACH

SINGLE ACCREDITATION SYSTEM (SAS) FOR GME AND EQUAL ACCEPTANCE OF COMLEX-USA AND USMLE

The SAS for graduate medical education (GME) provides a uniform GME accreditation pathway with enhanced opportunities for residents and fellows and transparency to the federal government, licensing boards, US and internal credentialing committees — and most importantly, the public. A single GME system preserves the distinctive elements of osteopathic medical education, including American Osteopathic Association (AOA) board certification, accreditation of colleges of osteopathic medicine, and COMLEX-USA osteopathic licensing examinations. It also increases opportunities for osteopathic recognition status for all Accreditation Council for Graduate Medical Education (ACGME)-accredited programs, while providing education in osteopathic principles and practice to both DO and MD medical school graduates.

While COMLEX-USA and USMLE are both acceptable by the ACGME to enter ACGME-accredited residency programs and for appointment to fellowship programs, helping the GME community across the country understand COMLEX-USA as the licensing examination for DOs is of prime importance to DOs, the medical community, the NBOME, and, principally for patients.

Throughout 2018, NBOME worked to enhance this dialogue through further engagement with students, residents and the ACGME learning community to discuss the advantages, appropriate uses and interpretation of COMLEX-USA scores for DO residency applicants. Outreach examples include presentations and numerous initiatives, including:

- Single GME Outreach Taskforce
- Resident Ambassador Program
- Published COMLEX-USA Validity Research
- #PerfectlyMatched18 Social Media Campaign
- National Resident Matching Program collaborations
- Accreditation Council on Graduate Medical Education exhibit and presentations
- Assembly of Osteopathic Graduate Medical Educators
- Organization of Program Director Associations
- American Association of Colleges of Osteopathic Medicine
- American College of Emergency Physicians
- Council of Emergency Medicine Residency Directors
- Council of Osteopathic Student Government Presidents
- National Student Osteopathic Medical Association
- National Osteopathic Student Caucus
- American Academy of Family Physicians
- American Association of Medical Colleges

In November, we celebrated the American Medical Association (AMA)'s decision to adopt policy to promote equal acceptance of COMLEX-USA and USMLE in all US residency programs. We enthusiastically support the AMA's plans to work with our organization, and others, including the National Board of Medical Examiners, American Association of Medical Colleges, ACGME and AOA — to educate residency program directors on interpretation and use of COMLEX-USA scores, and collaborate with program directors as they work to promote equivalent utilization of COMLEX-USA in GME programs.



Idaho



California

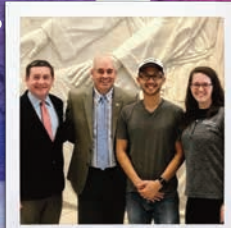
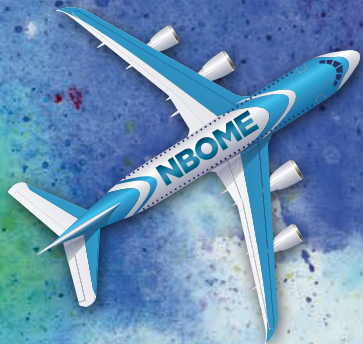


Arizona

14
COLLEGES VISITED

ON THE ROAD WITH THE COMs

OVER
36,000
MILES
TRAVELED



Indiana



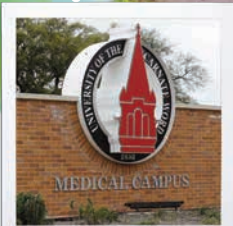
Virginia



Arkansas



Georgia



Texas

Connecting with osteopathic medical students as well as leadership and faculty at colleges of osteopathic medicine to discuss NBOME assessments and provide up-to-date information on the latest enhancements to COMLEX-USA, as well as item writing workshops and other faculty development programs. In 2018, COM visits included:

University of the Incarnate Word School of Osteopathic Medicine, San Antonio, TX • Rowan University School of Osteopathic Medicine, Stratford, NJ • Kansas City University of Medicine and Biosciences College of Osteopathic Medicine, Kansas City, MO • Idaho College of Osteopathic Medicine, Meridian, ID • Touro University College of Osteopathic Medicine, Vallejo, CA • Marian University College of Osteopathic Medicine, Indianapolis, IN • Western University of Health Sciences/College of Osteopathic Medicine of the Pacific, Pomona, CA • Liberty University College of Osteopathic Medicine, Lynchburg, VA • New York College of Osteopathic Medicine of New York Institute of Technology - Arkansas, Jonesboro, AR • Arkansas College of Osteopathic Medicine, Fort Smith, AR • Philadelphia College of Osteopathic Medicine-Georgia, Suwanee, GA • Des Moines University College of Osteopathic Medicine, Des Moines, IA • Arizona College of Osteopathic Medicine of Midwestern University, Glendale, AZ • A.T. Still University-School of Osteopathic Medicine in Arizona, Mesa, AZ

CLIENT AND PARTNER ORGANIZATIONS

THE NBOME SUPPORTS THE DEVELOPMENT

and delivery of assessments for numerous client organizations. As part of these collaborations, the NBOME contributes expertise for residency readiness, in-service examinations (given to residents), board certification and recertification, and educational modules for continuous professional development and practice performance appraisal.



American Academy of Pediatric Dentistry
Resident In-Service Examination



American College of Osteopathic Surgeons
Resident In-Service Examination



American Board of Cosmetic Surgery
Certification Examinations



American Osteopathic Board of Family Physicians
Education Modules



American Board of Facial Cosmetic Surgery
Certification Examinations



American Osteopathic Board of Internal Medicine
General Internal Medicine, Subspecialty, and CAQ Certification & Recertification Examinations, CATALYST Pilot



American College of Osteopathic Emergency Physicians
Resident In-Service & Board Preparation Examinations



American Osteopathic Board of Neuromusculoskeletal Medicine
Item Writing 101



American College of Osteopathic Family Physicians
In-Service Examination, Clinical Osteopathic Recognition Training Examination (CORTEX)



American Osteopathic Board of Obstetrics and Gynecology
CATALYST Pilot



American College of Osteopathic Internists
Resident In-Service Examination



American Osteopathic Board of Pediatrics
CATALYST Pilot



American College of Osteopathic Pediatricians
Resident In-Service Examination



National Board of Podiatric Medical Examiners
Clinical Skills Examination

COLLABORATION

LIAISON COMMITTEE

The Liaison Committee is comprised of organizations participating in the osteopathic medical profession. Each year the committee meets to discuss topics relevant to the participating organizations. In 2018, the theme of the meeting, “Foundation for an Exciting Future: Accelerating Learning through Assessment,” was considered by members of the Liaison Committee. In addition to updates from each of the member organizations, the group discusses timely and relevant issues. In 2018, the group discussed the value and use of numeric scores for COMLEX-USA.

THE COALITION FOR PHYSICIAN ACCOUNTABILITY

The NBOME is a proud member of the Coalition for Physician Accountability and is honored to continue our commitment to advancing health care and promoting professional accountability by improving the quality, efficiency, and continuity of the education, training, and assessment of physicians. Coalition members support the missions of member organizations in accreditation, assessment, certification, and licensure of physicians, and seek opportunities to enhance communication and coordination along the continuum of medical education, training and practice. In 2018, the Coalition continued to advance the quality and safety of patient care through enhancing physician accountability in education and practice, with attention to current issues, such as the opioid crisis, clinician well-being and resilience, inter-professional education and artificial intelligence, among others.



2018 NBOME Liaison Committee

aogme ASSEMBLY OF OSTEOPATHIC
RADIANTE MEDICAL EDUCATORS
AMERICAN ASSOCIATION OF COLLEGES OF OSTEOPATHIC MEDICINE

aacom

AMA
AMERICAN MEDICAL
ASSOCIATION



AOA



Accreditation Council for
Graduate Medical Education

AAQE

SOMA
STUDENT OSTEOPATHIC MEDICAL ASSOCIATION

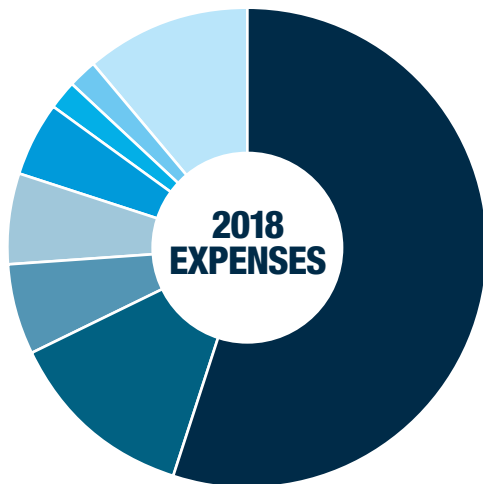


OPDA

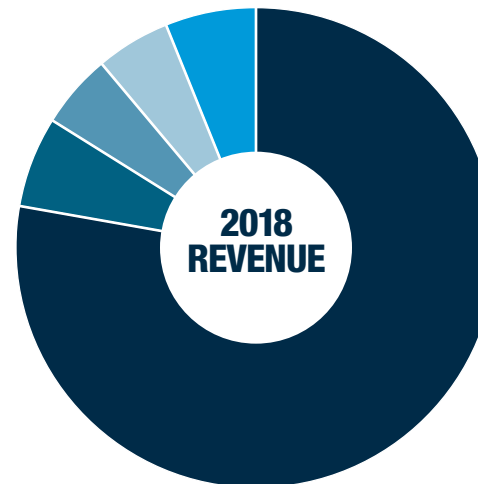
FINANCIAL STEWARDSHIP

THE NBOME ENDED 2018 IN A STRONG FINANCIAL POSITION. While implementation of COMLEX-USA two-day Level 3 and the new blueprint were successfully implemented, overall growth in COMLEX-USA revenue was slowed due to a four-month blackout period when no Level 3 exams were administered. 2018 also saw three specialty Boards transition to in-house certification exam administration within the American Osteopathic Association. Long-term investments of the NBOME were impacted somewhat, as equity markets deteriorated in the fourth quarter; however, a conservative and diversified investment strategy has positioned the organization well for the future.

A core competency of the NBOME, financial stewardship begins with annual budget development at the department level and extends through the engagement of external financial auditors and review of financial statements by the Board of Directors. Management reviews of budget performance and oversight from the finance committee, audit committee and executive committee are centered between these end points during the year. Extensive investment in the quality of products and services, including the test-taking experience, candidate wellness initiatives, and innovative assessment initiatives have remained essential elements of our strategy. Through prudent fiduciary management of resources in 2018 and prior years, COMLEX-USA fees will not increase in 2019.



SALARIES AND BENEFITS	55%
EXAM ADMINISTRATION	13%
EXAM DEVELOPMENT	6%
OFFICE SPACE	6%
DEPRECIATION	5%
GOVERNANCE	2%
PHYSICIAN EXAMINERS	2%
IT, SUPPLIES, FEES AND OTHER	11%



COMLEX-USA	78%
COMAT	6%
COMSAE	5%
CLIENT/OPAIM	5%
ADMINISTRATION SERVICES	6%



RESEARCH ACTIVITY

THE NBOME PROMOTES SCHOLARLY RESEARCH in an effort to identify and disseminate evidence to support that its assessments are a reliable and valid measure of competencies for osteopathic medicine and related health professions, and to contribute to the field of assessment.

Of the many scholarly articles, research manuscripts, and presentations created in support of these efforts in 2018, there were two specific articles of note.

In October, NBOME released an important research study that was then published in the Accreditation Council for Graduate Medical Education's *Journal of Graduate Medical Education*. This research demonstrated strong positive correlation between performance on COMLEX-USA and the American College of Osteopathic Family Physicians resident in-service examinations, further supporting the use of COMLEX-USA by program directors as part of a holistic review of residency applicants.

Additionally, the Federation of State Medical Boards' *Journal of Medical Regulation* highlighted COMLEX-USA and its recent enhancements, including the competency-based design, updated Master Blueprint, and attestation by program directors of good academic and professional standing for eligibility in the article, "Enhancing COMLEX-USA: Evidence-based Redesign of the Osteopathic Medical Licensure Examination Program," published in October 2018.

The following list of manuscripts reflects the scholarly work of NBOME staff members and their colleagues. NBOME staff members are shown in bold.

PEER-REVIEWED JOURNAL ARTICLES

PUBLISHED

- **Horber DT, Gimpel JR.** Enhancing COMLEX-USA: Evidence-based redesign of the osteopathic medical licensure examination program. *Journal of Medical Regulation*. 2018; 104(3): 11-18.
- **Hudson K**, Feinberg G, Hempstead L, Zipp C, **Gimpel JR, Wang Y.** Association between performance on COMLEX-USA and the American College of Osteopathic Family Physicians In-Service Examinations. *Journal of Graduate Medical Education*. 2018; 10(5): 543-547.

SUBMITTED

- **Horber DT, Flamini J, Gimpel JR, Tsai E**, Shrum K, **Hudson K.** CATALYST: Piloting a Longitudinal Assessment and Learning Program for Board Recertification and Continuous Professional Development. Re-submitted for publication to the *Journal of the American Osteopathic Association*. November 2018. In review.
- **Shao C**, Yang H, Liu S, **Tsai TH.** Automated Test Assembly Using SAS Operations Research Software in a Medical Licensing Examination. Re-submitted for publication to the *Applied Psychological Measurement*. November 2018. In review.

To reference a complete list of published works and presentations please visit our website at nbome.org/publications/presentations/.

COMMUNITY

NBOME STAFF PARTICIPATED IN A NUMBER OF INITIATIVES designed to promote the health and wellness of our communities. These efforts included wearing pink and writing thank you notes to celebrate National Women Physicians Day, dressing in blue to raise awareness about the importance of cancer screening and the Colorectal Cancer Alliance, and raising donations to help the American Cancer Society fund research and providing support services to those affected by breast cancer, to help promote the importance of early detection and treatment. Employees also celebrated National Osteopathic Medicine/International Osteopathic Healthcare Week with educational and wellness-related activities focused on a common goal of

increasing awareness of osteopathic medicine and DOs in communities across the country and around the world.

In the spirit of giving back, NBOME partnered with Operation Shoebox, where staff assembled close to 50 boxes of donated items and additionally sent over 3 dozen hand-written thank you letters to U.S. military troops abroad. Employees participated in a back-to-school drive and provided hundreds of school supplies to local area schools and students in both Chicago and Philadelphia. In an effort to help spread the holiday spirit to children in need in our local communities, staff coordinated a toy drive to provide donations to Toys for Tots and ChildServ.



DRESS IN BLUE DAY

Friday | March 2 | 2018

DRESS UP... DRESS DOWN... BUT JOIN IN AND DRESS IN BLUE

Send us your fun photos of dressing in blue for submission to the Colorectal Cancer Alliance's photo contest!
communications@nbome.org



An Initiative of the Colon Cancer Alliance in recognition of March as Colon Cancer Awareness Month. In 2018, more than 135,000 people will be diagnosed with this highly preventable disease. Dress in blue to show your support and raise awareness.



WOMEN PHYSICIANS ARE A GREAT NATIONAL TREASURE!

NATIONAL WOMEN PHYSICIANS DAY #NWPD



EXCELLING TO ACEL



The NBOME mission to protect the public by providing the means to assess competencies for osteopathic medicine and related health care professions is the foundation for our 2017-2019 strategic plan “ACEL” – align | connect | experience | learn. Using ACEL to plan our goals, we’re able to accelerate our progress in alignment with our mission. Below shows what progress we’ve made in each of the ACEL areas during 2018:

align

Aligning growth for the advancement of assessment for osteopathically educated physicians

- Successful implementation of the enhanced COMLEX-USA Master Blueprint, beginning with the two-day Level 3 examination, including attestation by residency program directors that resident candidates are in good academic and professional standing
- Released the new COMAT-Foundational Biomedical Sciences Comprehensive examination
- Completed initial pilots of the NBOME CATALYST platform to advance the development of a new, enhanced assessment platform for learning

connect

Connecting and engaging with our audiences, increasing reach, influence and effectiveness in advancing our mission of protecting the public

- SAS GME Outreach to numerous stakeholders including at GME programs and COMs
- Growth in assessment services to clients both domestically and across the world

experience

Promoting quality Experiences, assessments and services with the NBOME brand

- Enhancements to technology for assessment delivery resulting in greater than 99 percent of successful COMLEX-USA examination administrations, and greater than a 93 percent COMLEX-USA candidate experience rating

learn

Fostering a Learning and research culture

- Expanded research and scholarly activity with major publications demonstrating the validity evidence for the use of COMLEX-USA for licensure and predictive validity for its use in resident selection
- Talent management – expanding staff leadership – reorganizing departments and divisions to better serve our stakeholders and growth

PROTECTING THE PUBLIC

The COMLEX-USA examination series is the osteopathic assessment used for initial licensure of osteopathic physicians in the United States and internationally. In addition to providing the pathway to licensure for osteopathic medical practice, COMLEX-USA is a graduation requirement for earning a DO degree from a college of osteopathic medicine and is required for progression in graduate medical education.

2018 Board of Directors





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