Outline

• NBOME Board and National Faculty

• Other New NBOME Services and Products (e.g., COMAT, COMSAE)

• Proposed Changes in Future Testing for Licensure

• Novel Item Formats

• Initiatives to Reach Residency Program Directors
Our Mission

The NBOME’s mission is to protect the public by providing the means to assess competencies for osteopathic medicine and related health care professions.
NBOME Offices

Philadelphia

Chicago

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2012 NBOME Board Member locations in relation to COM locations
COMLEX-USA 2010
Continuum for Lifelong Learning

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COMLEX-USA Current Blueprint for Testing 2012

### Dimension 1: Patient Presentation

<table>
<thead>
<tr>
<th>Topic</th>
<th>Level 1</th>
<th>Level 2 CE</th>
<th>Level 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population Health Concepts and Patients with Presentations Related</td>
<td>8 - 16%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to Health Promotion, Chronic Disease Management, and Human Development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to Digestion and Metabolism</td>
<td>4 - 10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to Cognition, Behavior, Sensory &amp;</td>
<td>20 - 30%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Nervous Systems, Substance Abuse, and Visceral and Sensory Pain</td>
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<tr>
<td>Patients With Presentations Related to the Musculoskeletal System,</td>
<td>6 - 12%</td>
<td></td>
<td></td>
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<tr>
<td>including Somatic Pain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to the Genitourinary System and</td>
<td>3 - 8%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Sexuality</td>
<td></td>
<td></td>
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<tr>
<td>Patients With Presentations Related to Circulation and the</td>
<td>8 - 16%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to Thermoregulation</td>
<td>2 - 6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to Trauma, Masses, Edema,</td>
<td>8 - 16%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discharge, and the Skin, Hair and Nails</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients With Presentations Related to Pregnancy, the Peripartum,</td>
<td>3 - 8%</td>
<td></td>
<td></td>
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<tr>
<td>and the Neonatal Period</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Dimension 2: Physician Tasks

<table>
<thead>
<tr>
<th>Task</th>
<th>Level 1</th>
<th>Level 2 CE</th>
<th>Level 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Promotion &amp; Disease Prevention</td>
<td>1 - 5%</td>
<td>15 - 20%</td>
<td>15 - 20%</td>
</tr>
<tr>
<td>History &amp; Physical Examination</td>
<td>5 - 15%</td>
<td>30 - 40%</td>
<td>10 - 20%</td>
</tr>
<tr>
<td>Diagnostic Technologies</td>
<td>1 - 5%</td>
<td>10 - 20%</td>
<td>15 - 25%</td>
</tr>
<tr>
<td>Management</td>
<td>2 - 7%</td>
<td>10 - 20%</td>
<td>25 - 40%</td>
</tr>
<tr>
<td>Scientific Understanding of Health &amp; Disease Mechanisms</td>
<td>70 - 85%</td>
<td>5 - 15 %</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>Health Care Delivery Issues</td>
<td>1 - 3%</td>
<td>5 - 10%</td>
<td>5 - 10%</td>
</tr>
</tbody>
</table>
Clinical Skills in COMLEX-USA Performance Evaluation

Expanded National Center for Clinical Skills Testing (Philadelphia-Conshohocken, PA)

- Doubled testing capacity for COMLEX-USA Level 2-Performance Evaluation
- Testing just slightly more than 5,000 candidates annually; capacity for 10,000 per year
- Students continue to give positive feedback about test administration and experience
- Adding a distinct testing location still unlikely in next 3-4 years (even with current growth projections)- we are committed to revisit this and balance need for examination standardization and minimal increased costs to candidates
NBOME New Services & Products

- Comprehensive Osteopathic Medical Achievement Tests - COMAT Series of Subject Examinations
- Comprehensive Osteopathic Medical Self-Assessment Examinations - COMSAE (and Faculty Edition)
- Contracts with Numerous Specialty Colleges and Boards
- Faculty Development Programs
- New Products in Development (continuing competency/ fit-for practice/ revalidation/ MOL)
COMAT Series- Subject Examinations

- Seven (7) Core Clinical Disciplines - designed for end of clerkship/clinical rotation or course evaluations (OPP, Surgery, Pediatrics, OB-GYN, Psychiatry, Family Medicine, Internal Medicine) - Went Live-July 2011
- Osteopathically distinctive assessments; Content reflects the latest development of the subject and consensus “best-practice” guidelines
- Each discipline has learner-centered objectives and teaching and learning resource guides
- On-line adaptability and flexibility; Proctored and secure
- Excellent feedback after first “90 days”
COMAT

- 19 COM’s are administering one or more COMAT subjects
  - >4,000 total administrations through mid-November
  - All seven subjects have been administered
- New -- Scores are being reported on Dean’s Pages in Client Registration System
- Normative data is instant and is available any time any exam is given.
- Client Services working closely with COM Coordinators
Enhanced COMLEX-USA

Blue Ribbon Panel
- Two decision point model
- Competency-based assessment
- Career-long competence
- Practice analysis and modeling

Innovations in Testing Department
- André De Champlain
  Ph.D., Director

Competency-based Innovative Assessments
- Cognitive Testing
- Innovative Item Types: Multimedia, partial-credit, complex task items, etc.
- Innovative MCQs: Professionalism, application of knowledge, etc.
- Performance Testing

Post-Licensure Assessments
- MOL Efforts
  - Current Maintenance of Licensure (MOL) and Osteopathic Continuous Certification (OCC) efforts
    - PT Safety Task Force
    - CPEP collaborative efforts
    - CFP Taskforce
    - MOL?
  - Tailored, Modular MOL and OCC
    - Develop MOL “packages”

COMLEX-USA Practice Analyses
- Procedural skills survey
- CDC clinical database queries
- Analysis of resident/UG logs

Innovations for the 21st century
- PGY1 assessments (“Logistics” Study)
- Higher-order CM skills
- “Orphan” competency domains

General Consulting, Educational, Research Services
- Coordinate research agenda/strategies
- Disseminate results at nat’l/int’l meetings
- Serve as consulting resource for internal and external bodies (governance)
- General liaison for new initiatives, Communications & IS
Proposed Changes in Testing for Licensure

Why Change?

• To stay meaningful and relevant in the licensing process

• To elevate the breadth and quality of assessment to meet the expectations of the profession and the public – reliability and validity remain paramount

• CQI in protecting the public
NBOME and COMLEX-USA

- NBOME Board adopted a plan for continuous quality improvement for COMLEX-USA in June 2009 - after 3 years of research and consideration
- Plan will likely take 5-10 years to further research and fully implement
- Model will move to a two-decision point model (does not mean two examinations)
- NBOME’s *Fundamental Osteopathic Medical Competency Domains* document updated- released July 2011
Blue Ribbon Panel on Enhancing COMLEX-USA

- Research and expert consensus on enhancement of COMLEX-USA
- Competency-based schema (published *Fundamental Osteopathic Medical Competency Domains* document-July 2011)
- Two decision points:
  - Entering residency (supervised practice) and
  - Entering independent practice
- Expected implementation - 2015-2020; minor enhancements continue to be tested and introduced in the interim
- Organizations with representatives on the panel: FSMB, AOA, AAOE, CMSS (ACGME PDs), AODME, AACOM, ECOP, NBOME
- Roadmap and Update expected early 2012
Blue Ribbon Panel on Enhancing COMLEX-USA

Some Preliminary Consensus:

• All 7 competency domains will likely be assessed across each “decision point”

• Cognitive examinations will continue to provide numeric scores (vs. pass/ fail)

• Assessment for licensure could consider including a portfolio model and

• Adapting current COMLEX-USA examination blueprint and outline to consider patient presentations, competency domains and lifecycle
Blue Ribbon Panel on Enhancing COMLEX-USA: Evolutionary Changes Rolling Out Now

- Innovative Testing Formats and Item Types- including MCQ items that include heart sounds, patient video clips, and avatars (piloted since 2007, now going live and into COMLEX-USA Level 1 and 2-CE)
- COMLEX-USA Level 2-PE pilot testing with keyboard entry for the post-encounter SOAP Note (probable 2014 implementation)
- Multimedia item types that expand the assessment of important competency elements
- Novel item types that focus on critical interpretation of the medical literature (use of evidence-based medicine), such as pharmaceutical company advertisements and research abstracts
Examples of Novel Item Types
NBOME Piloting CDM Cases:

CLINICAL DECISION-MAKING IN THE PRACTICE OF MEDICINE

is not a general skill but is case-specific.
ESSENTIALS OF A “KEY FEATURES” CASE

- Scenario with Age & Clinical Situation
- Followed by no more than 3 questions
- Focusing on resolution of a problem
- Requires many cases
- MCC: Now has 260 such clinical cases
Why Change to Key Features?
Adding a New Dimension Enhancing Authenticity

1. High fidelity test of applied knowledge
2. Focus on case-specific decisions
3. Broader sampling:
   adequate and representative
   ...better reliability and validity
4. Simple & focused scoring
5. Varied formats to fit purpose
6. Defensible pass-fail decisions
### C2: Lifelong Learning/ CME
- Self-assessments - pre and post tests for on-line or traditional CME courses or modules

### C3: Cognitive Assessment
- Secure, proctored examinations
- Competency-based assessments
- Test development: Item development, computerized item banking, customer service/administrative support
- Customized score reporting
- Psychometric consulting

### C4: Practice Performance Assessment and Improvement
- Patient Safety Risk Assessment Tool
- Professionalism, Communication skills assessments
- Clinical Skills assessments
- Psychometric consulting
- Osteopathic Performance in Practice Assessments

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THE CURRENT NBOME CLIENT EXAMINATIONS INCLUDE:

1. American Academy of Pediatric Dentistry in-service examinations

2. American Osteopathic Board of Emergency Medicine (AOBEM) computer-delivered certification examinations

3. AOBEM computer-delivered recertification examinations

4. American Osteopathic Board of Pediatrics (AOBP) computer-delivered certification examinations
THE CURRENT NBOME CLIENT EXAMINATIONS INCLUDE:

5. AOBP computer-delivered recertification examinations

6. American College of Osteopathic Emergency Physicians in-service examinations

7. American College of Osteopathic Family Physicians in-service examinations

8. American College of Osteopathic Internal Medicine (ACOI) web-delivered in-service examinations.

9. American College of Osteopathic Surgeons web-delivered in-service examinations
Initiatives to Reach Residency Program Directors

- Website Handout- “What PDs Should Know About COMLEX-USA…”
- Organization of Program Director Associations/ Council of Medical Specialty Societies (ACGME program reps) and AODME added to Blue Ribbon Panel and NBOME Liaison Committee
- NBOME Annual Report Sent to All Program Directors (AOA and ACGME programs)
- Presentations and publications with CORD (EM), ACP (IM), etc.
- Exhibit booth at AAMC Annual meeting
- ERAS links regarding interpretation of COMLEX-USA scores
- Numerous other ongoing initiatives
To Contact Us:

www.nbome.org

jgimpel@nbome.org
THANK YOU!

Our mission is to protect the public by providing the means to assess competencies for osteopathic medicine and related health care professions.

The NBOME creates and administers the Comprehensive Osteopathic Medical Licensure Examination of the United States (COMLEX-USA), the examination series that provides the pathway to licensure for osteopathic physicians. COMLEX-USA is accepted in all 50 states and many international jurisdictions.

NBOME...Committed to promoting excellence in osteopathic medical education and assessment.