

REPORT OF THE COUNCIL ON MEDICAL EDUCATION

CME Report 13-A-10

Subject: Expectations for Lifelong Learning

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1 Council on Medical Education Report 3-A-08, "Physician Lifelong Learning," included two related
2 recommendations. Recommendation 2 asked that our American Medical Association (AMA)
3 conduct a study on how medical schools and residency program could promote the skills of lifelong
4 learning and how practicing physicians were using various continuing medical education
5 modalities to support their continued learning. The results of this study were included in CME
6 Report 10-A-09, "Promoting Physician Lifelong Learning," which was presented at the 2009
7 Annual Meeting of the AMA House of Delegates (HOD).

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9 This informational report summarizes the expectations of accrediting, certifying, and licensing
10 bodies related to physician lifelong learning across the medical education continuum.

11 EXPECTATIONS FOR PHYSICIANS-IN-TRAINING

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14 Medical students and resident physicians are starting on the road to lifelong learning.
15 Accreditation standards related to these groups focus on learners' acquiring the skills that will
16 allow them to become mature lifelong learners as they enter practice.

17 *Accreditation Expectations for Undergraduate Medical Education*

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20 The Liaison Committee on Medical Education, the accrediting body for medical education
21 programs leading to the MD degree, has explicit standards related to preparing students to engage
22 in lifelong learning.

23
24 ED-5A. The educational program must include instructional opportunities for active learning
25 and independent study to foster the skills necessary for lifelong learning.¹

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27 The explanatory annotation¹ to this standard, which is meant to assist schools and reviewers to
28 understand the expectations for compliance, reads as follows:

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30 It is expected that the methods of instruction and evaluation used in courses and clerkships will
31 provide students with the skills to support lifelong learning. These skills include self-
32 assessment on learning needs and independent identification, analysis, and synthesis of
33 relevant information, as well as the assessment of whether information sources are credible.
34 Students should receive explicit experiences in using these skills, and evaluation of and
35 feedback on their performance.

36
37 Medical schools undergoing a regular accreditation review are expected to provide examples of the
38 opportunities that students have to: 1) evaluate their own learning needs; 2) identify, analyze, and
39 synthesize information relevant to their learning needs; and 3) assess the credibility of information

1 sources. Medical schools also must describe how students' demonstration of the skills needed for
2 lifelong learning contribute to their evaluations in courses and clerkships.²

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4 The accreditation process also may use data from other sources when determining compliance with
5 the standard requiring lifelong learning. For example, the Association of American Medical
6 Colleges (AAMC) Annual Medical School Graduation Questionnaire (GQ) collects annual
7 information from fourth-year medical students. The data are provided to individuals schools with
8 their own students' responses and with national norms. In the questionnaire, there are several items
9 related to activities that can be linked to lifelong learning. For example, national data from the
10 2009 GQ showed that 42% of responding students had completed an independent study project for
11 credit, 65% had participated in a research project with a faculty member, and 38% had been sole or
12 co-author of a research paper submitted for publication.³

13 14 *Accreditation Expectations for Graduate Medical Education*

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16 The Accreditation Council for Graduate Medical Education (ACGME) Competencies, as contained
17 in the ACGME Common Program Requirements, include the following expectations associated
18 with the competency termed practice-based learning and improvement:

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20 “...Residents are expected to develop skills and habits to be able to meet the following goals:
21 (1) identify strengths, deficiencies, and limits in one's knowledge and expertise;
22 (2) set learning and improvement goals; (3) identify and perform appropriate learning
23 activities...”^{4, p.8}

24
25 ACGME is exploring the development of a learning portfolio system that would allow residents
26 and their supervisors to track the individual resident's learning over time. As described on the
27 ACGME web site, the portfolio could

28
29 “prepare residents for managing their continued learning and professional development as they
30 transition into practicing physicians.”⁵

31 32 EXPECTATIONS FOR PHYSICIANS IN PRACTICE

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34 As physicians leave training and move into practice or other activities, there is an expectation that
35 they have acquired the skills of lifelong learning and will continue their education throughout their
36 professional careers. The AMA Principles of Medical Ethics state:

37
38 V. A physician shall continue to study, apply, and advance scientific knowledge, maintain a
39 commitment to medical education, make relevant information available to patients, colleagues,
40 and the public, obtain consultation, and use the talents of other health professionals, where
41 indicated.⁶

42
43 For the physician in his or her professional life, lifelong learning can be equated with continuing
44 medical education (CME), defined by our AMA as consisting of:

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46 “educational activities which serve to maintain, develop, or increase the knowledge, skills, and
47 professional performance and relationships that a physician uses to provide services for
48 patients, the public, or the profession. The content of CME is the body of knowledge and skills
49 generally recognized and accepted by the profession as within the basic medical sciences, the
50 disciplines of clinical medicine, and the provision of health care to the public” (Policy
51 H-300.988, AMA Policy Database).

1 Accreditation of continuing medical education providers is conferred by the Accreditation Council
2 for Continuing Medical Education (ACCME) or by an ACCME-recognized state medical society.
3 Educational activities are certified for AMA PRA Category 1 Credit™ by an accredited provider
4 establishing that the activity meets AMA PRA standards.⁷ There also are credit systems from the
5 American Academy of Family Physicians, which accredits individual continuing medical education
6 activities rather than providers, and the American Osteopathic Association.⁷

7
8 Physicians may gain AMA PRA Category 1 CME Credits™ by participation in a variety of
9 learning formats, such as:

- 10
- 11 • Live activities where a physician attends an educational session in person or virtually (for
12 example, over the Internet).
 - 13 • Use of enduring materials, including printed, recorded, audio, video and/or online activities
14 that may be used over time and at various locations and that, in themselves, constitute a
15 structured CME activity.
 - 16 • Journal-based CME where the physician selects and reads a designated article in the peer-
17 reviewed medical literature and engages in reflection or interaction based on the article's
18 content (for example, through an evaluation or examination).
 - 19 • Test item writing where the physician contributes to the development of a designated high-
20 stakes examination or specific self-assessment module by researching, drafting, and defending
21 a test item.
 - 22 • Manuscript review where the physician critically reviews assigned journal manuscripts under
23 the direction of a journal editor and an accredited CME provider.
 - 24 • Performance improvement where a physician or group of physicians can, using a structured,
25 long-term process, learn about selected performance measures, apply such measures to
26 respectively or prospectively assess their practices, and re-evaluate their performance after an
27 interval.
 - 28 • Internet point of care learning where physicians engage in structured, self-directed online
29 learning on topics relevant to their practices.⁷
- 30

31 *Licensure*

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33 Sixty-two state medical licensing boards require CME for license re-registration. Many states
34 require that a certain percentage of the CME be AMA PRA Category 1 Credit™ or equivalent
35 credits. In 34 states, completion of a graduate medical education residency/fellowship program can
36 be used (once) as a surrogate for a defined number of CME credits. The number of recognized
37 credits required per year ranges from 12 to 50.⁸

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39 There are some states that mandate that a certain number of CME credits be in specific content
40 areas. For example, licensure renewal in California requires all general internists and family
41 physicians with 25% or greater of their patient population aged 65 or older to complete at least 20
42 hours of all mandatory CME in geriatric medicine or the care of older patients. Kentucky
43 physicians must complete a one-time course covering domestic violence and obtain 2 credits every
44 10 years in HIV-AIDS.⁸

45
46 The Federation of State Medical Boards (FSMB) Advisory Group on Continued Competence of
47 Licensed Physicians developed a draft report titled "Report on FSMB Maintenance of Licensure
48 Initiative" concluded that:

1 There is current data that supports continued lifelong medical education as an effective means
2 of physician learning and change if it is part of a system of continuous professional
3 development that includes self-assessment, remediation and reassessment.^{9, p.13}

4
5 The maintenance of licensure framework described in the draft report included the expectation that,
6 for license renewal, physicians should provide evidence that they are participating in a program of
7 professional development and lifelong learning that is based on the general competencies model:

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9 • medical knowledge;
10 • patient care;
11 • interpersonal and communication skills;
12 • practice based learning;
13 • professionalism; and
14 • systems based practice.⁹

15
16 *Specialty Board Certification*

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18 In 2000, the 24 Member Boards of the American Board of Medical Specialties (ABMS) agreed to a
19 process of continuous professional development for their recertification programs. The ABMS
20 Maintenance of Certification® (MOC) process is meant to assure that physicians are committed to
21 lifelong learning in a specialty or subspecialty by requiring ongoing measurement of six core
22 competencies that had been adopted by the ABMS and ACGME in 1999.¹⁰ These six core
23 competencies are the competencies listed above.

24
25 The four-part MOC process includes the following elements:

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27 Part I - Professional Standing. Physicians must hold a valid, unrestricted medical license.

28
29 Part II - Lifelong Learning and Self-Assessment. Physicians must participate in educational
30 and self-assessment programs that meet specialty-specific standards.

31
32 Part III - Cognitive Expertise. Physicians must demonstrate through formalized examination
33 that they have the fundamental, practice-related, and practice-environment related knowledge
34 to provide quality care in their specialty.

35
36 Part IV - Practice Performance Assessment. Physicians are asked to demonstrate that they can
37 assess the quality of care they provide compared to peers and national benchmarks and can
38 apply evidence or consensus recommendations to improve quality.⁹

39
40 Each of the four parts of MOC relates directly or indirectly to elements of lifelong learning.

41
42 On March 16, 2009, the ABMS adopted new standards related to the MOC process and provided
43 timelines for their implementation.¹¹ These standards included:

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45 Documentation that physicians are meeting CME and self-assessment requirements. By 2011,
46 the 24 ABMS Member Boards will be expected to document that physician diplomats are
47 meeting CME and self-assessment requirements for MOC. The content of CME and self-
48 assessment programs utilized for MOC are expected to be relevant to medical advances within
49 the medical specialty for which physicians are certified.

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51 There already are medical specialty boards that meet the self-assessment requirement.

1 Evidence of participation in practice-based assessment and quality improvement. By 2010,
2 ABMS Member Boards will require physician diplomats to provide evidence of participation in
3 practice assessment and quality improvement every two to five years.

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5 *Membership and Privileges*

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7 Membership in state and medical specialty societies as well as maintenance of hospital privileges
8 can require evidence of continued learning, through CME requirements and/or specialty board
9 certification. For example, many state medical societies and specialty organizations require
10 evidence of participation in CME, such as AMA PRA Category 1 Credit™ or equivalent credits.

11
12 **SUMMARY**

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14 There are expectations related to physician lifelong learning across the medical education
15 continuum. These are set by different groups, including accrediting, licensing, and certifying
16 bodies, with little historical expectation of coordination. Events such as the creation of the six
17 ACGME-ABMS competencies are serving as a focus for synergy between some groups, but do not
18 yet permeate the entire continuum. The absence of a coordinated set of expectations makes it
19 difficult to assure that all physicians have the skills to engage in meaningful lifelong learning,
20 including the ability to self-assess and act on their learning needs.^{12,13} There is evidence from
21 systematic reviews of the literature that at least some physicians have “limited” ability to self-
22 assess and that those whose knowledge and skills are most limited are also least able to accurately
23 self-assess their level of performance.^{12,13} Efforts to assure that physicians possess the skills to
24 engage in appropriate and effective lifelong learning should be collaborative across the continuum,
25 to avoid duplication and to support an appropriate level of skill as physicians proceed through
26 training.

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