

REPORT 5 OF THE COUNCIL ON MEDICAL EDUCATION (A-15)
Competency and the Aging Physician
(Reference Committee C)

EXECUTIVE SUMMARY

The increasing numbers of older physicians, as well as the call for increased accountability by the public, have led regulators and policymakers to consider implementing some form of age-based competency screening of physicians. All physicians must meet state licensure requirements to practice medicine in the United States. In addition, some hospitals and medical systems have initiated age-based screening, but there is no national standard, and older physicians are not required to pass a health assessment or an assessment of competency or quality performance in their area or scope of practice. Although some studies of physicians have shown decreasing practice performance with increasing years in medical practice, the effect of age on any individual physician's competence can be highly variable. In response to Policy D-275.959, Competency and the Aging Physician, this report explores whether there is a need to establish guidelines for the testing for and judgment of an aging/late career physician's competence to care for patients.

The literature shows that assessment of practicing physicians is challenging because there are a limited number of valid tools that may be applied to measuring competence and/or practice performance; other challenges include the variable nature of physician practices and cultural resistance to externally derived assessment approaches. Assessment of aging physicians poses unique challenges related to the uncertain and variable influence of aging on clinical competence and performance in practice. In addition, policy decisions regarding assessment of older physicians must balance the higher index of concern regarding potential competence deficits due to the effect of aging on physical health and cognitive function with a need to avoid implementation of discriminatory regulatory policies and procedures. Although age is a factor in predicting the prevalence of dyscompetence, other individual and practice factors may influence clinical performance, i.e., practice setting, lack of board certification, high clinical volume, certain specialty practices, etc. Fatigue, stress, burnout, and health issues unrelated to aging are also risk factors that can affect clinical performance.

It is part of a physician's professional duty to continually assess his or her own physical and mental health, as well as report all instances of significantly impaired or incompetent colleagues to hospital, clinic or other relevant authorities. Contemporary methods of self-regulation (e.g., clinical performance measurement; continuing professional development requirements, including novel performance improvement continuing medical education programs; and new and evolving maintenance of certification programs) have been created by the profession to meet shared obligations for quality assurance and patient safety.

It is the opinion of the Council on Medical Education that physicians should be allowed to remain in practice as long as patient safety is not endangered and that, if needed, remediation should be a supportive, ongoing and proactive process. Self-regulation is an important aspect of medical professionalism, and helping colleagues recognize their declining skills is an important part of self-regulation. Therefore, physicians must develop guidelines/standards for monitoring and assessing both their own and their colleagues' competency. Formal guidelines on the timing and content of testing of competence may be appropriate and may head off a call for mandatory retirement ages or imposition of guidelines by others. It should be noted that the development of guidelines/standards for appropriate mechanisms to assess aging/late career physicians will require significant resources, and would have to be consistent with state regulations at a number of levels.

REPORT OF THE COUNCIL ON MEDICAL EDUCATION

CME Report 5-A-15

Subject: Competency and the Aging Physician

Presented by: William A. McDade, MD, Chair

Referred to: Reference Committee C
(Daniel B. Kimball, Jr., MD, Chair)

1 Policy D-275.959, Competency and the Aging Physician, directs our American Medical
2 Association (AMA) to: 1) study the issue of competency in aging physicians and develop
3 guidelines, if the study supports such a need, for appropriate mechanisms of assessment to assure
4 that America's physicians remain able to provide optimal care for their patients; and 2) report back
5 to the House of Delegates.

6 7 INTRODUCTION

8
9 The process of becoming a practicing physician in the United States requires a substantial
10 commitment of time, money, energy, and emotion on behalf of each physician. Throughout their
11 careers, physicians are recognized as professionals who practice a complex "craft" which requires
12 them to maintain their skills and education, as well as make difficult, often quick and sometimes
13 life-and-death decisions that demand high and complex levels of cognitive functioning.^{1,2} The state
14 medical boards grant physicians the authority to provide services that other health care
15 professionals cannot provide.

16
17 As the demands of medical practice and the quantity of patients continue to grow, older physicians
18 remain an essential part of the physician workforce.³ The total number of physicians 65 years and
19 older more than quadrupled from 50,993 in 1975 to 241,641 in 2013. Physicians 65 and older
20 currently represent 23 percent of physicians in the United States. Within this group, two-fifths
21 (39.3 percent) are actively engaged in patient care, while half (54 percent) are listed as inactive in
22 the AMA Physician Masterfile.⁴ The increasing numbers of older physicians, as well as the call for
23 increased accountability by the public, have led regulators and policymakers to consider
24 implementing some form of age-based competency screening.⁵ All physicians must meet state
25 licensing requirements to practice medicine in the United States. In addition, some hospitals and
26 medical systems have initiated age-based screening, but there is no national standard, and older
27 physicians are not required to pass a health assessment or an assessment of competency or quality
28 performance in their area or scope of practice.^{6,7}

29
30 Although some studies of physicians have shown decreasing practice performance with increasing
31 years in medical practice, the effect of age on any individual physician's competence can be highly
32 variable.⁸ Many issues affecting late career physicians also affect those with a lapse in practice;
33 assessment and remediation services for these physicians may be similar. However, there is a
34 distinction between those seeking to reenter practice and the aging/late career physician. This
35 report explores whether there is a need to establish guidelines for the testing for and judgment of an
36 aging/late career physician's competence to care for patients.

1 DETERMINING IF AN OLDER PHYSICIAN IS CLINICALLY COMPETENT

2
3 Assessment of practicing physicians is challenging because of the limited number of valid tools
4 that may be applied to measuring competence and/or practice performance, the variable nature of
5 physician practices, and cultural resistance to externally derived assessment approaches.
6 Assessment of aging physicians poses unique challenges related to the uncertain and variable
7 influence of aging on clinical competence and performance in practice. In addition, policy
8 decisions regarding assessment of older physicians must balance the higher index of concern
9 regarding potential competence deficits due to the effect of aging on physical health and cognitive
10 function with a need to avoid implementation of discriminatory regulatory policies and procedures.
11

12 A large body of research demonstrates that cognitive dysfunction is more prevalent among older
13 adults, although aging, per se, does not necessarily result in cognitive impairment.³ Wide variations
14 are seen in cognitive performance with aging,^{9,10} and the ability to clearly demonstrate an
15 association between specific cognitive deficits and physician occupational performance is
16 challenging.⁵ Furthermore, some attributes relevant to health care—such as wisdom, resilience,
17 compassion, and tolerance of stress—may actually increase as a function of aging.^{5,11,12,13,14}
18

19 In terms of specific research findings that may have a significant impact on patient care, there is a
20 tendency for physicians to rely more on non-analytic processes (such as pattern recognition and
21 “gist”-based processes), as opposed to more active and controlled processes, as they age.^{5,9} With
22 aging, fluid intelligence (“mental efficiency”) decreases while domain-specific, experientially-
23 based knowledge remains stable.³ Non-analytic processes may lead to more accurate diagnoses by
24 experienced physicians, particularly when based primarily on contextual information, but may
25 result in unrecognized diagnostic errors when analytic processes cannot intervene during evolving
26 or complex clinical situations.⁹ This may result in premature closure and diagnostic errors, and a
27 compromise in the ability to care for more complex patients.^{5,9} Eva described several factors
28 associated with aging that may either negatively impact the accuracy of non-analytical approaches
29 or limit the ability to engage in analytical processes. These factors include:
30

- 31 • Decreasing working memory and the ability to store and process information;
- 32 • Decreasing processing speed of mental operations limiting the ability to complete complex
33 tasks;
- 34 • Increasing difficulty in inhibiting irrelevant information and inappropriate responses, including
35 the tendency to be overly influenced by the order in which information is received (primacy
36 effect) and to be biased by personal experience; and
- 37 • Declining hearing and visual acuity, which in and of themselves may significantly contribute to
38 age-related intelligence decline.^{9,10}
39

40 In addition to cognitive effects, relevant to maintenance of procedural competence, research shows
41 that manual dexterity and visuospatial ability decrease with age.^{15,16,17}
42

43 Related to the influence of aging on the actual assessment of physicians, published data
44 demonstrate a negative impact of increasing age on physician assessment results. Physician
45 performance on knowledge examinations declines as a function of aging regardless of whether the
46 examination assesses general medical or surgical knowledge or more practice-specific knowledge,
47 such as blood product transfusion or emergency contraception.¹⁸ Important differences in
48 performance may become more apparent after age 60.¹⁹ Although most physicians over age 60 will
49 score significantly lower than their younger colleagues, higher variability among older test-takers
50 results in some physicians over 60 performing as well as those younger than 40.¹⁹ Research

1 suggests that the lower score obtained by older physicians represents failure to acquire new or
2 changing knowledge rather than the loss of their more stable knowledge base.²⁰ Among physicians
3 referred to an assessment center because of concerns regarding their clinical competence, older age
4 and lack of board certification predicted a lower score on a computer-based clinical simulation
5 designed to assess patient management skills.²¹ Detection of competence deficits among referred
6 physicians is associated with an increased risk of underlying cognitive dysfunction, which may be
7 more pronounced in elderly physicians.^{22,23,24}

8
9 When broader, multifaceted assessment approaches are deployed (including chart-stimulated recall,
10 standardized patients, multiple-choice question tests, and oral examinations), physician age and
11 time since graduation predict overall poorer performance.^{25,26} Of note, performance deficits may be
12 identified across multiple competence domains such as history taking, physical examination and
13 communication skills, problem solving, patient management, and record keeping.²⁶ The negative
14 impact of aging on performance was seen in both physicians referred for assessment because of
15 concerns about their competence and in the physicians who served as a normative criterion
16 (comparison) group.⁹ Data from the Peer Assessment Program in Ontario show that detection of
17 gross deficiencies increases with age, occurring in nine percent of physicians under age 49, 16
18 percent of those ages 50 to 74, and 22 percent over age 75.²⁷ In a sample of physicians referred
19 from U.S. licensing authorities, assessment outcomes of older physicians are significantly more
20 likely to be interpreted as unsafe for clinical practice.²⁸ A neuropsychological analysis of
21 physicians receiving adverse actions by a state medical board identified deficits in attention,
22 sequential processing, logical analysis, eye-hand coordination, and verbal and non-verbal
23 learning.^{5,29}

24
25 The relationship between the results from competence assessment and the eventual quality of care
26 provided and patient outcomes is complex and does not necessarily allow for predictions at the
27 individual practitioner level. Consistent with the research cited above showing declining
28 knowledge and failure to acquire new knowledge over time, research shows that older primary care
29 physicians are less likely to prescribe appropriate medications or incorporate new treatment
30 strategies into their practices.^{17,30,31} A review of 62 studies found that increasing years in practice is
31 associated with decreasing knowledge; lower adherence to evidence-based standards of care for
32 diagnosis, prevention and treatment; and worse patient outcomes.¹⁸ A large majority (73 percent) of
33 the studies showed an age-related decline in all or some of the parameters assessed, while only four
34 percent showed an age-related improvement in all or some of the parameters assessed. Another
35 study demonstrated that inpatients cared for by physicians who were practicing longer had longer
36 stays and higher mortality rates.³² The peer review program in Ontario found age to be an
37 independent predictor of poor quality of care and record keeping.^{27,33} In the United Kingdom,
38 physician practices that are consistently classified as poorly performing relative to their quality and
39 outcomes are more likely to be staffed by elderly general practitioners.³⁴ However, not all research
40 finds a negative association between age and quality. A large study of physician performance in
41 Massachusetts, using publicly available claims data, did not find a relationship between quality and
42 years of experience.³⁵

43
44 Research on actions taken by state medical boards suggests that advancing age is a risk factor for
45 adverse licensing actions, although malpractice incidents and claims may occur less frequently
46 among older physicians.^{36,37,38} Following a thorough practice review by Quebec licensing
47 authorities, including medical record audit and assessment of prescribing habits and practice
48 outcomes, physicians over age 70 were three times more likely to have their license cancelled than
49 those under 70 years old, and were half as likely to successfully remediate. Physicians ages 65 to
50 97 were three times more likely to have inadequate continuing professional development (CPD)
51 activity compared to their younger colleagues.³⁹

1 Studies have shown that aging in surgeons is associated with increased morbidity and/or mortality
2 in patients undergoing thyroidectomy,⁴⁰ carotid endarterectomy,⁴¹ knee replacement surgery,⁴² and
3 coronary artery bypass grafting.⁴³ A study based on Medicare data found that older surgeons,
4 particularly those with low procedural volumes, have higher mortality rates for selected
5 procedures, such as segmental colon resection, pancreatotomy, and CABG,¹⁷ but not for other
6 complex procedures such as lung resection or abdominal aortic aneurysm repair. Older surgeons
7 are less likely to integrate new modalities and recommendations for care into their practices; for
8 example, they are less likely to perform breast reconstruction when indicated in breast cancer
9 patients⁴⁴ and are more likely to have delayed adoption of and higher complications with
10 laparoscopic techniques.^{45,46,47}

11 OTHER FACTORS THAT AFFECT CLINICAL PERFORMANCE

12
13
14 Although age is a factor in predicting the prevalence of dyscompetence, there are other individual
15 and practice factors that may influence performance. Physicians in solo practice (who have less
16 contact with physician colleagues) and those who are in administrative positions (who have less
17 patient contact) tend to score lower on knowledge-based examinations.¹⁹ Physicians in solo
18 practice score lower on knowledge examinations related to both the loss of stable knowledge and
19 failure to acquire new and changing knowledge, suggesting that an isolated environment impacts
20 one's abilities to maintain and acquire knowledge.²⁰ Broad, multifaceted assessment approaches
21 identify solo practice, international training, lack of board certification, general practice and
22 incongruence between training and scope of practice as additional risk factors predicting poor
23 performance outcomes.^{25,26,28} Board certification, female gender, and graduation from a domestic
24 medical school, but not time in practice, were associated with better quality of care as identified by
25 review of claims data in Massachusetts.³⁵ Similarly, the peer assessment program in Canada found
26 that, in addition to increasing age, lack of board certification, male gender, and a rural practice
27 location were associated with worse quality of care and documentation in the medical record.^{27,33}
28 Furthermore, multivariate analysis revealed a related and potentially additive impact of age,
29 practice location, and lack of certification.²⁷ In addition, male gender, lack of board certification or
30 hospital privileges, graduation from a foreign medical school, high clinical volume, physical and
31 mental health issues, and certain specialty practices are also risk factors for adverse licensure
32 action.^{36,37} Of note, self-reported continuing medical education (CME) hours may be directly
33 correlated with incompetence.²⁶ Fatigue, stress, burnout, and health issues unrelated to aging are
34 also risk factors that can affect clinical performance.⁵

35 HEALTH SCREENINGS FOR PHYSICIANS

36
37
38 Moutier suggests that aging is but one of several risk factors for competence and performance
39 problems and that a mandatory retirement age for physicians is not justified.⁵ However, Moutier
40 gives credit to hospitals and medical systems that have initiated age-based screening processes, and
41 a broad professional initiative in developing age-based screening policy and procedures is
42 recommended.⁵ The majority of individuals surveyed during a conference of the Coalition for
43 Physician Enhancement favored implementation of age-based screening of physicians'
44 competence.⁵ Among the respondents, which included staff from physician assessment centers,
45 attorneys and state medical board members, 72 percent recommended that screening begin at age
46 65 or 70. Conference participants suggested the process should include peer review, practice
47 evaluation, and assessments of physical and mental health, including a cognitive screening process.

1 *Physicians' Professional Responsibilities*

2
3 It is part of all physicians' professional duty to continually assess their own physical and mental
4 health.^{1,9,48} Currently, there is no national standard for screening physicians who have reached a
5 certain age. In addition, the standards of professional behavior authorized and adopted by medical
6 societies state that physicians' professional responsibilities should include reporting all instances of
7 significantly impaired or incompetent colleagues to hospital, clinic or other relevant authorities.⁴⁸

8
9 *Peer Review and Practice Evaluation*

10
11 Although individual peers reporting on each other is the prime mechanism for identifying
12 physicians whose knowledge, skills, or attitudes are compromised, and most physicians agree that
13 impaired or incompetent physicians should be reported to the appropriate authorities, this method is
14 not always reliable.^{1,48,49} A study by Campbell et al. showed that 45 percent of those with direct
15 personal knowledge of a physician in their hospital group or practice who was impaired or
16 incompetent did not always report that physician.⁴⁸ Contemporary methods of self-regulation (e.g.,
17 clinical performance measurement; CPD requirements, including novel performance improvement
18 CME programs; and new and evolving maintenance of certification programs) have been created
19 by the profession in part due to increasing recognition that sole reliance on individual physicians to
20 report colleagues' performance, even if it were 100 percent reliable, still would not be enough to
21 meet shared obligations for quality assurance and patient safety.

22
23 From a public protection perspective, the objective assessment option seems like an important
24 intervention, given the strong impact of aging on performance, the extreme variability of cognitive
25 function among older physicians, and the well-documented inability of physicians to self-assess, in
26 particular those who are less competent.⁵⁰ Eva advised caution regarding the above interventions,
27 with significant resource and administrative implications; they should not be universally mandated
28 but implemented through a case-by-case, assessment-driven process, given the extreme variability
29 of cognitive findings among older physicians.⁹ External, objective assessment also seems essential
30 given that non-analytic processes may be even less accessible to critical self-appraisal than the
31 more conscious analytical processes.

32
33 *The Joint Commission's Requirements*

34
35 The Joint Commission's standard MS.11.01.01 is specifically written to encourage medical staffs
36 to identify and manage matters of individual health for licensed independent practitioners that are
37 separate from actions taken for disciplinary purposes. The standard focuses on the education of
38 physicians to recognize issues in others and also encourages self-referral in an effort to facilitate
39 confidential diagnosis, treatment and rehabilitation by assisting a practitioner to retain and regain
40 optimal professional functioning consistent with the protection of patients. If it is determined,
41 however, that a physician is unable to exercise safely the privileges that he or she has been granted,
42 The Joint Commission's standard calls for the matter to be reported to the medical staff leadership
43 for appropriate corrective action.⁵¹

44
45 *Hospital/Health System Screening Programs*

46
47 A growing number of hospitals and health care systems have adopted official policies that require
48 physicians to undergo health assessments upon reaching a certain age in order to examine practice
49 patterns and physician abilities to practice safely.⁵² Examples of hospitals and groups that have
50 such policies in place include the University of Virginia Health System, Driscoll Children's
51 Hospital in Texas, and Stanford Lucille Packard Children's Hospital in California. The University

1 of Virginia screens physicians at age 70 and every year after age 75 and assesses physical and
2 mental capacity. Driscoll screens physicians at age 70 and at reappointment thereafter, conducts
3 physical and mental examinations and, if deemed appropriate, proctors clinical performance.
4 Stanford screens physicians at age 75 and every two years thereafter, and screening includes peer
5 assessment of clinical performance, history and physical assessments, and cognitive screening.^{52,53}

6 7 *US and Canadian Local Screening Programs*

8
9 LifeGuard, conceptualized and supported by the Pennsylvania Medical Society, evaluates and
10 assesses the neurocognitive status, physical status, and medical knowledge of referred physicians
11 and provides an objective report describing assessment results and recommendations for
12 remediation (if applicable).⁵⁴ LifeGuard is a resource for state medical boards, hospitals and health
13 systems, medical staff, peer review boards, credentialing committees, physician group practices
14 and physicians in Pennsylvania. The program includes the Aging Physician pathway for entities
15 and organizations that need “ability to perform” assessments for senior physicians. This pathway
16 measures clinical skills and health status; core components of the assessment can include an
17 objective measurement of cognitive and physical functioning as well as fine motor skills.
18 Additional assessment options are available based on the concerns identified by the requesting
19 entity.⁵⁴

20
21 The Colorado Physician Health Program (CPHP), governed by the Colorado Peer Assistance Act,
22 is independent of other medical organizations and the state government. The Denver Medical
23 Society, the Colorado Medical Society and Copic Insurance Company were instrumental in
24 establishing CPHP and continue their support of the program. CPHP provides confidential services
25 in all areas required by law or regulation, including comprehensive clinical evaluation; treatment
26 planning and referral; treatment monitoring and support; assessment of ability to practice safely;
27 consultation to hospital administrators, medical executive committees and medical staff offices;
28 education presentations on physician health and related issues; documentation of health status
29 necessary for hospital credentialing; and neutrality, objectivity and confidentiality in the context of
30 working with hospitals, partnerships, the Colorado Board of Medical Examiners, organizations,
31 families and other systems with which the physician is involved.⁵⁵

32
33 The California Medical Association, California Hospital Association’s Center for Healthcare
34 Medical Executives, and California Public Protection and Physician Health drafted guidelines and
35 principles for medical staffs, medical groups, and other entities in California that have
36 responsibility for decisions related to evaluating a practitioner’s health and well-being as they
37 impact the practitioner’s ability to practice medicine safely. The draft guidelines include options
38 for assessing physicians who choose to work late into their careers. The draft guidelines, available
39 at <https://cppphdotorg.files.wordpress.com/2011/02/assessing-late-career-practitioners-draft-26-wo-cma-1-14-15.pdf>, are subject to periodic review and revision to incorporate new developments.

40
41
42 The College of Physicians and Surgeons of Ontario (CPSO) has established a formal system for
43 assessing all physicians in Ontario. Duties of the College include issuing certificates of registration
44 to doctors for the practice of medicine, monitoring and maintaining standards of practice through
45 peer assessment and remediation, investigating complaints about doctors on behalf of the public,
46 and conducting discipline hearings when doctors may have committed an act of professional
47 misconduct or may be incompetent. Ontario physicians who reach age 70 are required to participate
48 in the College-appointed peer assessment program (if the physician has not been randomly selected
49 in the previous five years). These physicians are then assessed every five years thereafter. When a
50 physician is selected to undergo assessment, a number of pre-assessment activities take place.
51 Reviewing a physician’s medical record-keeping system is perhaps most often associated with peer

1 assessment. A records review enables an assessor to develop a picture of the physician's practice
2 and an understanding of his or her approach to patient care. Through the records review and
3 discussion with the physician, assessors try to put together the "story of the patient." An assessor
4 evaluates the physician's ability to take adequate histories, conduct appropriate examinations, order
5 the necessary diagnostic tests, identify the appropriate course of action, conduct the necessary
6 interventions and monitor patients, as necessary.⁵⁶

8 FACTORS THAT MAY HAMPER ASSESSMENT OF OLDER PHYSICIANS' COMPETENCE

9
10 Factors that may make assessment of older physicians more challenging include the variability of
11 cognitive dysfunction in older adults, uncertainty regarding how to interpret tests of cognitive or
12 motor function in physicians, the confounding effects of other variables on physician competence
13 and performance, and the uncertain predictive value of specific competence assessments on the
14 actual quality of care and patient outcomes.

15
16 With regard to measurement of cognitive dysfunction, it is uncertain whether and how physician
17 results should be compared to the general population and whether their results should be age-
18 matched for interpretation purposes.²² The nature of physician decisions, in terms of their
19 difficulty, acuity and gravity, suggests that even minor changes in cognitive function may be
20 impactful in patient care situations.^{2,57} Results for cognitive testing that are interpreted as normal
21 based on comparison to an age-matched, non-physician population could potentially represent a
22 significant decline in highly intelligent individuals.^{58,59} Turnbull and colleagues found that using an
23 age-independent standard for neuropsychological performance was more sensitive in detecting
24 cognitive problems among referred physicians, and it was more accurate in predicting assessment
25 and remediation outcomes.²³

26
27 Although there are currently no accepted criteria or guidelines for making judgments regarding
28 acceptable cognitive or neuropsychological thresholds, there is a sentiment that public protection
29 goals dictate the need for a high standard in judgments about cognitive ability in physicians.⁵⁸
30 Should "corrections" be made in expectations for cognitive performance when they are not made
31 for performance on other assessment modalities, such as the multiple-choice question
32 examinations?^{22,23} Regardless of whether correction should be made for age-matching on
33 physicians, the ultimate relationship between tests of cognitive function on clinical performance
34 and outcomes is not well established.⁶⁰ Caulford notes that the failure to assimilate new knowledge
35 identified in the American Board of Internal Medicine (ABIM) studies is not clearly related to
36 physician performance problems.²⁶ Waljee points out that there is no evidence directly linking age-
37 related decline in motor and visuospatial skills to worsening outcomes for patients.¹⁷ In fact,
38 commonly used diagnostic assessments that focus primarily on analytic approaches to clinical care
39 may yield somewhat spurious findings in physicians who rely more on non-analytical approaches.⁹
40 Yet, the identified relationship between cognitive performance level and prediction of assessment
41 and remediation outcomes cannot be ignored.²³

42
43 An increasingly prevalent perspective emerging from the CME community is the need to recognize
44 the important influence of the system and practice environment on physicians in terms of their
45 ability to learn and apply their learning in improving patient care and outcomes.⁶¹ Physician
46 performance in practice represents a complex interaction between personal characteristics of the
47 physician (age, gender and certification status) and practice context (practice structure, location,
48 workload and patient acuity). This suggests that competence or performance assessment models
49 should take into consideration the broader environmental context in which a physician
50 practices.^{28,62} In fact, regression modeling suggests that incorporation of organizational and system
51 factors substantially reduces the independent impact of age and other individual physician

1 characteristics on practice-based assessments of physicians.⁶² Durning and colleagues applied
2 situated cognition theory as a framework for understanding how a physician's thoughts and actions
3 cannot be separated from the social context in which they practice.³ In addition to physician factors
4 such as age and cognitive function, patient factors (acuity and complexity) and practice factors
5 (appointment lengths, setting, staffing and support systems) affect a physician's practice and
6 influence patient care and outcomes. This phenomenon limits the ability of measures of cognitive
7 function and knowledge, and perhaps measurement of other domains in an assessment center
8 context, to explain or predict performance in the physician's actual practice setting.³

9
10 Interpretations and decisions based on diagnostic assessment of clinical competence are also
11 challenged by the lack of clear standards for physician performance and an overall lack of
12 normative assessment data on practicing physicians.²¹ Even though physicians may be at increased
13 risk for competence deficits as they age, the majority of older physicians most likely provide safe
14 and effective patient care. While age is a risk factor for cognitive dysfunction among referred
15 physicians, age in the absence of identified cognitive deficits does not necessarily have a negative
16 impact on assessment or remediation outcomes.²³ The challenge is to devise a process that will be
17 cost effective in identifying physicians who require remediation, or perhaps should retire from
18 practice. Norman and colleagues suggest a process analogous to an epidemiologic approach to
19 screening for a low prevalence disease in which a single testing method may not be cost effective.²⁵
20 A multifaceted approach would begin with an economical screening test with high sensitivity,
21 followed by a more comprehensive diagnostic approach for those who are identified as a high risk
22 for dyscompetence.²⁵ The diagnostic approach would need to include assessment methods that
23 cover the range of competencies relevant to safe and effective patient care, as physicians who are
24 diagnosed as "incompetent" may have deficiencies that span more than one competency domain.²⁶

25
26 There remains some uncertainty about the value of results based on assessment of physician
27 knowledge and skills in vitro for predicting their clinical performance and quality of care in vivo. It
28 is difficult, in an assessment center setting, to account completely for practice and patient-related
29 contextual factors that have a strong influence on physician performance. Work by Rethans and
30 Kopelow suggests that physician behaviors in an assessment context may not accurately represent
31 their actual clinical performance.^{63,64} On the other hand, there are consistencies noted between
32 assessment outcomes and practice performance results. For example, assessment of aging
33 physicians demonstrates their failure to acquire new or changing knowledge over time, and clinical
34 studies show they fail to integrate new clinical information or methods in their practices.^{20,30,31} In
35 response to potential concerns regarding relevance and predictability of competence assessments
36 for actual performance in practice, the Physician Review Program (PREP) of the CPSO included
37 medical records from physicians' actual practice and standardized patient-simulated cases typical
38 of those seen in physicians' specific practice context.²⁵ It would seem appropriate, pending
39 resolution of such questions by targeted research, to integrate methods focusing on assessment of
40 knowledge and skills with those assessing actual clinical performance in a way that is sensitive to
41 practice context.

42 43 IMPAIRED PHYSICIANS AND UNIFORM WAYS TO DEAL WITH THEIR COMPETENCE 44 TO PRACTICE

45
46 The profession of medicine holds itself to the high ideals of caring and competency; the first tenet
47 is *primum non nocere* or "first do no harm." Ethical guidelines state, "When health or wellness is
48 compromised, so is the safety or effectiveness of the medical care provided. When failing physical
49 or mental health reaches the point of interfering with a physician's ability to engage safely in
50 professional activities, the physician is said to be impaired."⁶⁵

1 Concern regarding the continuing competence of physicians has grown in recent years from the
2 Institute of Medicine reports on patient safety as well as public concern with medical errors and
3 inadequate practice oversight. Unlike commercial airline pilots who must undergo regular health
4 screenings starting at age 40 and must retire at age 65, or FBI agents whose mandatory retirement
5 age is 57, physicians are subject to no such rules.^{66,67} However, physicians are regulated by state
6 medical boards, professional organizations, hospitals, organized systems, and specialty certification
7 boards.

8
9 The issue of who holds physicians accountable to a high standard of practice throughout their
10 careers is one that has troubled licensing authorities, hospitals and clinical directors, as well as third
11 party payers. The primary purpose of state medical boards is to protect the public by ensuring that
12 those who practice medicine are able to do so safely. In most states, relicensure, the process by
13 which physicians renew their licenses to practice, consists primarily of reporting CME activities
14 and maintaining a record free of violation of legislative and professional statutes and guidelines.⁶⁷

15
16 Hospitals have an obligation to retain only competent physicians on their staff. Some hospitals now
17 require physicians over a certain age, usually starting between ages 70 to 75, to undergo periodic
18 physical and cognitive exams as a condition of renewing their privileges. Other hospitals oppose
19 setting a hard-and-fast-number for mandatory testing.^{5,68} The Joint Commission has established
20 guidelines for ongoing evaluation of the professional practice quality of physicians. These
21 evaluations must be conducted on a regular basis and measure a practitioner's clinical and
22 behavioral competence in six areas: patient care, medical/clinical knowledge, practice-based
23 learning and improvement, interpersonal and communication skills, professionalism, and system-
24 based practice.⁵¹

25
26 Maintenance of certification (MOC) programs sponsored by the American Board of Medical
27 Specialties (ABMS) and its 24 member boards promote CPD. The Member Boards require most
28 medical specialists to seek recertification on a periodic basis, typically every 10 years, by
29 successfully completing assessments designed to test medical knowledge, clinical competence and
30 skills in communicating with patients. MOC's impact is limited, however, in that many older
31 physicians are "grandfathered" or have time-unlimited board certifications. Furthermore, the
32 process does not address those physicians who are not board certified.^{67,69} Choudhry suggests that
33 older physicians may need the quality interventions that are appropriate for all physicians and
34 raises concerns that much of existing CME may not help them maintain their quality of care.¹⁸
35 Many older physicians are exempt from MOC requirements that might provide a venue for helping
36 to maintain their competence.¹⁸

37
38 When competency to practice safely is in question, the approach is individualized because there is
39 a continuum of competency. If the physician is an immediate threat to the public welfare, or has an
40 irreversible cognitive impairment or an untreatable condition, the state medical board can revoke
41 the medical license. If the condition is potentially reversible, state medical boards and hospitals
42 may refer physicians to specialized programs for competency to practice assessments and
43 remediation. These programs evaluate a physician's clinical knowledge, reasoning, judgment,
44 documentation and patient care as well as neuropsychological status. Organizations such as the
45 Coalition for Physician Enhancement have a mission to support, develop and certify those with
46 expertise in assessment and education enhancement for physicians and other health-care providers.
47 There are approximately 10 remediation programs in the United States.⁵

1 RETRAINING MAY BE NEEDED TO ALLOW PHYSICIANS TO CONTINUE TO PRACTICE

2
3 It is the opinion of the Council on Medical Education that remediation should be a supportive,
4 ongoing and proactive process and that physicians should be allowed to remain in practice as long
5 as patient safety is not endangered.⁷⁰ Remediation programs offer many educational approaches
6 including formal CME. Traditional CME courses developed for the average physician are often
7 used as a resource for physicians needing remediation. Lobprabhu, et al. suggest that the
8 remediation program should include remedial CME for the identified area of dyscompetence, as
9 well as pre- and post-testing to determine whether the physician learned the material presented.⁶⁸
10 The type of testing and the criteria for successful remediation may differ according to specialty.

11
12 Norman comments that “physicians undergoing remedial education are at high risk for failure and
13 conventional education may be unsuccessful.”²⁵ In particular, cognitive dysfunction may negatively
14 impact a physician’s ability to remediate successfully.^{2,22} Thus, assessment of neuropsychological
15 function may be of value in supporting decisions about the potential utility (vs. futility) of further
16 remediation and assessment, particularly if cognitive problems are identified in older physicians
17 with significant competence deficits.^{22,71} Kohatsu commented that their research findings had
18 potential policy implications for use of board certification in credentialing, and they support the
19 efforts of the ABMS to enhance the development and assessment of physician life-long learning
20 and continuing competence.³⁷

21
22 Barriers associated with remediation programs include the high cost of programs; the dispersed
23 location of programs; the lack of a comprehensive database to inform physicians about assessment
24 and remediation programs, such as structure, requirements, costs and outcomes; the lack of
25 standardized curricula; and the lack of a sufficient monitoring process to assess program outcomes.
26 Further, due to the relatively small number of assessment programs that address cognitive and other
27 impairments, physicians are unlikely to be assessed within the context of their own practice.^{68,70}

28
29 APPROPRIATENESS OF GUIDELINES FOR TESTING FOR AND JUDGMENT OF A
30 PHYSICIAN’S COMPETENCE TO CARE FOR PATIENTS

31
32 Deciding when to give up practice is an important decision for any physician, and it is critically
33 difficult for some. Normal aging is associated with cognitive changes; some are positive (e.g.,
34 accumulated wisdom), but most are usually associated with some decline. However, increased
35 intelligence and greater educational achievement appear to be protective to some extent.
36 Nonetheless, physicians, similar to non-physicians, are at risk of mild cognitive impairment and
37 dementia, and physicians with either condition, often lack insight into their deficiencies. These
38 physicians may be resistant to suggestions that it is time to retire from practice.⁵⁸

39
40 Many wise physicians have asked trusted younger colleagues to tell them when it is time to stop.
41 Self-regulation is an important aspect of medical professionalism, and helping colleagues recognize
42 their declining skills is an important part of self-regulation. Therefore, physicians must develop
43 guidelines/standards for monitoring and assessing both their own and their colleagues’
44 competency. Clinical performance measurement and patient safety event reporting are used now
45 for medical staff assessment of professional competency.⁵

46
47 In years past, local medical societies would perform this function for their members. More recently,
48 medical staffs and department chiefs have dealt with the issue on an ad hoc basis, and with medical
49 staff peer review processes on a more formal basis. With the recent shift away from hospital
50 practice and the current competitive and litigious environment, formal guidelines on the timing and
51 content of testing of competence may be appropriate. How often this testing should occur is not

1 well defined. Unfortunate outcomes may trigger an evaluation at any age, but perhaps periodic
2 reevaluation after a certain age such as 70, when incidence of declines is known to increase, may
3 be appropriate. This testing should include evaluation of physical and mental health,
4 neurocognitive testing, and review of actual clinical care, either by direct observation or chart
5 review. Physicians must generate and agree on the appropriate guidelines themselves. Following
6 formal guidelines may head off a call for mandatory retirement ages, as pilots experience, or
7 imposition of guidelines by others.¹

8 9 SUPPORT FOR AGING PHYSICIANS

10
11 Some physicians are glad to move into a different phase of their lives when they reach age 70. For
12 others, however, this transition is not easy, and it may require the guidance and support of peers.
13 For this reason, it is important for medical staff leaders to understand how to support and respect
14 long serving colleagues. Physicians with decades of experience and contribution deserve the same
15 sensitivity and respect afforded their patients as they experience health changes that may or may
16 not allow continued clinical practice.⁷²

17
18 Shifting away from procedural work, allocating more time with individual patients, using memory
19 aids and seeking input from professional colleagues might help physicians successfully adjust to
20 the cognitive changes that accompany aging.^{5,58} Eva suggests that findings from the literature may
21 also identify ways that to alter the practice environment or tailor approaches to CPD to help
22 mitigate the effects of age-associated cognitive changes.^{9,10} These findings include:

- 23
- 24 • Increased environment supports, such as simplified documentation forms for recording data
25 and thus decreasing the need for working memory, freeing cognitive resources for other
26 activities;
- 27 • Decreased case load/decreased time demands;
- 28 • Narrowing or limiting scope of practice;
- 29 • Enhancing the clarity of various stimuli provided to older physicians, such as increasing the
30 contrast and resolution of radiographic images; and
- 31 • Focus on analytic components of medical diagnosis in CPD.
- 32

33 The AMA also provides support for aging physicians through a special membership section that is
34 the largest such group in the United States. The AMA Senior Physicians Section (SPS), which
35 comprises all AMA member physicians age 65 and older, sponsors educational activities on topics
36 of interest to the senior physician community. Recent programs included:

- 37
- 38 • “The Aging Physician: Opportunities and Challenges,” held in June 2013, focused on
39 understanding impairment in older physicians as well as facilitating the planning of prevention
40 strategies. The session examined what role the AMA should play in determining competency
41 measurements in an aging workforce. (www.ama-assn.org/ama/pub/about-ama/our-people/member-groups-sections/senior-physicians-section/education-programs.page)
- 42
- 43 • “Grow Healthier as You Grow Older,” held in June 2014, focused on the challenges and
44 opportunities physicians face in maintaining health and well-being and provided insights into
45 how to improve health outcomes in the senior population. (www.ama-assn.org/ama/pub/about-ama/our-people/member-groups-sections/senior-physicians-section/meetings.page?)
- 46

1 AMA POLICIES

2
3 The AMA has policy in which it urges members of the profession to discover and rehabilitate if
4 possible, or exclude if necessary, the physicians whose practices are incompetent, and to fulfill
5 their responsibility to the public and to their profession by reporting to the appropriate authority
6 those physicians who, by being impaired, need help, or whose practices are incompetent (H-
7 275.998). AMA policy urges licensing boards, specialty boards, hospitals and their medical staffs,
8 and other organizations that evaluate physician competence to inquire only into conditions that
9 impair a physician's current ability to practice medicine (H-275.978[6]). AMA policy also
10 reaffirms that it is the professional responsibility of every physician to participate in voluntary
11 quality assurance, peer review, and CME activities (H-300.973 and H-275.996). These and other
12 related policies are attached (see Appendix).

13
14 SUMMARY AND RECOMMENDATIONS

15
16 Regulators and policymakers are considering some form of age-based competency screening due to
17 the increasing number of older physicians, the call for increased accountability by the public and
18 concerns for patient safety.⁵ Although some studies among physicians have shown decreasing
19 practice performance with increasing years in medical practice, the effect of age on any individual
20 physician's competence can be highly variable.⁸ Furthermore, assessment of competence among
21 aging physicians poses unique challenges related to the uncertain and variable influence of aging
22 on clinical competence and performance in practice.

23
24 It is part of a physician's professional duty to continually assess his or her own physical and mental
25 health, as well as to report all instances of significantly impaired or incompetent colleagues to
26 hospital, clinic or other relevant authorities. However, this method is not always reliable.
27 Contemporary methods of self-regulation (e.g., clinical performance measurement; CPD
28 requirements, including novel performance improvement CME programs; and new and evolving
29 MOC programs) have been created by the profession to meet shared obligations for quality
30 assurance and patient safety. Some hospitals and medical systems have initiated age-based
31 screening, but there is no national standard, and older physicians are not required to pass a health
32 assessment or an assessment of competency or quality performance in their area or scope of
33 practice.

34
35 It is the opinion of the Council on Medical Education that physicians should be allowed to remain
36 in practice as long as patient safety is not endangered and that, if needed, remediation should be a
37 supportive, ongoing and proactive process. Self-regulation is an important aspect of medical
38 professionalism, and helping colleagues recognize their declining skills is an important part of self-
39 regulation. Therefore, physicians must develop guidelines/standards for monitoring and assessing
40 both their own and their colleagues' competency. Formal guidelines on the timing and content of
41 testing of competence may be appropriate and may head off a call for mandatory retirement ages or
42 imposition of guidelines by others.

43
44 It should be noted that the development of guidelines/standards for appropriate mechanisms to
45 assess aging/late career physicians will require significant resources to convene meetings (live and
46 virtual) of experts and stakeholders—especially in view of the limited and conflicting data
47 available on this topic. Furthermore, if a uniform set of guidelines was to be identified, it would
48 have to be consistent with state regulations at a number of levels.

49
50 The Council on Medical Education recommends that the following recommendations be adopted,
51 and that the remainder of the report be filed.

- 1 1. That our American Medical Association (AMA) identify organizations that should participate
2 in the development of guidelines and methods of screening and assessment to assure that
3 aging/late career physicians remain able to provide safe and effective care for patients.
4 (Directive to Take Action)
5
- 6 2. That our AMA encourage organizations identified by the AMA to work together to develop
7 preliminary guidelines for assessment of the aging/late career physician and develop a research
8 agenda that could guide those interested in this field and serve as the basis for guidelines more
9 grounded in research findings. (Directive to Take Action)
10
- 11 3. That our AMA rescind Policy D-275.959, Competency and the Aging Physician, since this
12 directive has been accomplished through this report. (Rescind HOD Policy)

Fiscal Note: \$5,000

APPENDIX – AMA POLICIES

D-275.959, Competency and the Aging Physician

Our AMA will study the issue of competency in aging physicians and develop guidelines, if the study supports such a need, for appropriate mechanisms of assessment to assure that America's physicians remain able to provide optimal care for their patients and report back to the House of Delegates. (Res. 308, A-14)

H-275.998, Physician Competence

Our AMA urges: (1) The members of the profession of medicine to discover and rehabilitate if possible, or to exclude if necessary, the physicians whose practices are incompetent. (2) All physicians to fulfill their responsibility to the public and to their profession by reporting to the appropriate authority those physicians who, by being impaired, need help, or whose practices are incompetent. (3) The appropriate committees or boards of the medical staffs of hospitals which have the responsibility to do so, to restrict or remove the privileges of physicians whose practices are known to be incompetent, or whose capabilities are impaired, and to restore such physicians to limited or full privileges as appropriate when corrective or rehabilitative measures have been successful. (4) State governments to provide to their state medical licensing boards resources adequate to the proper discharge of their responsibilities and duties in the recognition and maintenance of competent practitioners of medicine. (5) State medical licensing boards to discipline physicians whose practices have been found to be incompetent. (6) State medical licensing boards to report all disciplinary actions promptly to the Federation of State Medical Boards and to the AMA Physician Masterfile. (Failure to do so simply allows the incompetent or impaired physician to migrate to another state, even after disciplinary action has been taken against him, and to continue to practice in a different jurisdiction but with the same hazards to the public.) (CME Rep. G, A-79; Reaffirmed: CLRPD Rep. B, I-89; Reaffirmed: Sunset Report, A-00; Reaffirmation I-03; Reaffirmed: CME Rep. 2, A-13)

H-275.978, Medical Licensure

The AMA: (1) urges directors of accredited residency training programs to certify the clinical competence of graduates of foreign medical schools after completion of the first year of residency training; however, program directors must not provide certification until they are satisfied that the resident is clinically competent; (2) encourages licensing boards to require a certificate of competence for full and unrestricted licensure; (3) urges licensing boards to review the details of application for initial licensure to assure that procedures are not unnecessarily cumbersome and that inappropriate information is not required. Accurate identification of documents and applicants is critical. It is recommended that boards continue to work cooperatively with the Federation of State Medical Boards to these ends; (4) will continue to provide information to licensing boards and other health organizations in an effort to prevent the use of fraudulent credentials for entry to medical practice; (5) urges those licensing boards that have not done so to develop regulations permitting the issuance of special purpose licenses. It is recommended that these regulations permit special purpose licensure with the minimum of educational requirements consistent with protecting the health, safety and welfare of the public; (6) urges licensing boards, specialty boards, hospitals and their medical staffs, and other organizations that evaluate physician competence to inquire only into conditions which impair a physician's current ability to practice medicine. (BOT Rep. I-93-13; CME Rep. 10 - I-94); (7) urges licensing boards to maintain strict confidentiality of reported information; (8) urges that the evaluation of information collected by licensing boards be undertaken only by persons experienced in medical licensure and competent to make judgments about physician competence. It is recommended that decisions concerning medical competence and discipline be made with the participation of physician members of the board; (9) recommends that if confidential information is improperly released by a licensing board about a physician, the board take appropriate and immediate steps to correct any adverse consequences to the physician; (10) urges all physicians to participate in continuing medical education as a professional obligation; (11) urges licensing boards not to require mandatory reporting of continuing medical education as part of the process of reregistering the license to practice medicine; (12) opposes the use of written cognitive examinations of medical knowledge at the time of reregistration except when there is reason to believe that a physician's knowledge of medicine is deficient; (13) supports working with the Federation of State Medical Boards to develop mechanisms to evaluate the competence of physicians who do not have hospital privileges and who are not subject to peer review; (14) believes that licensing laws should relate only to requirements for admission to the practice of medicine and to assuring the continuing competence of physicians, and opposes efforts to achieve a variety of socioeconomic objectives through medical licensure regulation; (15) urges

licensing jurisdictions to pass laws and adopt regulations facilitating the movement of licensed physicians between licensing jurisdictions; licensing jurisdictions should limit physician movement only for reasons related to protecting the health, safety and welfare of the public; (16) encourages the Federation of State Medical Boards and the individual medical licensing boards to continue to pursue the development of uniformity in the acceptance of examination scores on the Federation Licensing Examination and in other requirements for endorsement of medical licenses; (17) urges licensing boards not to place time limits on the acceptability of National Board certification or on scores on the United State Medical Licensing Examination for endorsement of licenses; (18) urges licensing boards to base endorsement on an assessment of physician competence and not on passing a written examination of cognitive ability, except in those instances when information collected by a licensing board indicates need for such an examination; (19) urges licensing boards to accept an initial license provided by another board to a graduate of a US medical school as proof of completion of acceptable medical education; (20) urges that documentation of graduation from a foreign medical school be maintained by boards providing an initial license, and that the documentation be provided on request to other licensing boards for review in connection with an application for licensure by endorsement; (21) urges licensing boards to consider the completion of specialty training and evidence of competent and honorable practice of medicine in reviewing applications for licensure by endorsement; and (22) encourages national specialty boards to reconsider their practice of decertifying physicians who are capable of competently practicing medicine with a limited license. (CME Rep. A, A-87; Modified: Sunset Report, I-97; Reaffirmation A-04; Reaffirmed: CME Rep. 3, A-10; Reaffirmation I-10; Reaffirmed: CME Rep. 6, A-12; Appended: Res. 305, A-13)

H-300.973, Promoting Quality Assurance, Peer Review, and Continuing Medical Education

Our AMA: (1) reaffirms that it is the professional responsibility of every physician to participate in voluntary quality assurance, peer review, and continuing medical education activities; (2) to encourage hospitals and other organizations in which quality assurance, peer review, and continuing medical education activities are conducted to provide recognition to physicians who participate voluntarily; (3) to increase its efforts to make physicians aware that participation in the voluntary quality assurance and peer review functions of their hospital medical staffs and other organizations provides credit toward the AMA's Physicians' Recognition Award; and (4) to continue to study additional incentives for physicians to participate in voluntary quality assurance, peer review, and continuing medical education activities. (BOT Rep. SS, I-91; Reaffirmed: Sunset Report, I-01; Reaffirmed: CME Rep. 2, A-11)

H-275.996, Physician Competence

Our AMA: (1) urges the American Board of Medical Specialties and its constituent boards to reconsider their positions regarding recertification as a mandatory requirement rather than as a voluntarily sought and achieved validation of excellence; (2) urges the Federation of State Medical Boards and its constituent state boards to reconsider and reverse their position urging and accepting specialty board certification as evidence of continuing competence for the purpose of re-registration of licensure; and (3) favors continued efforts to improve voluntary continuing medical education programs, to maintain the peer review process within the profession, and to develop better techniques for establishing the necessary patient care data base. (CME Rep. J, A-80; Reaffirmed: CLRPD Rep. B, I-90; Reaffirmed: Sunset Report, I-00; Reaffirmed: CME Rep. 7, A-02; Reaffirmed: CME Rep. 7, A-07; Reaffirmed: CME Rep. 16, A-09; Reaffirmed in lieu of Res. 302, A-10; Reaffirmed in lieu of Res. 320, A-14)

D-295.325, Remediation Programs for Physicians

1. Our AMA supports the efforts of the Federation of State Medical Boards (FSMB) to maintain an accessible national repository on remediation programs that provides information to interested stakeholders and allows the medical profession to study the issue on a national level.
2. Our AMA will collaborate with other appropriate organizations, such as the FSMB and the Association of American Medical Colleges, to study and develop effective methods and tools to assess the effectiveness of physician remediation programs, especially the relationship between program outcomes and the quality of patient care.
3. Our AMA supports efforts to remove barriers to assessment programs including cost and accessibility to physicians.

4. Our AMA will partner with the FSMB and state medical licensing boards, hospitals, professional societies and other stakeholders in efforts to support the development of consistent standards and programs for remediating deficits in physician knowledge and skills.

5. Our AMA will ask the Liaison Committee on Medical Education and the Accreditation Council for Graduate Medical Education to develop standards that would encourage medical education programs to engage in early identification and remediation of conditions, such as learning disabilities, that could lead to later knowledge and skill deficits in practicing physicians. (CME Rep. 3, A-09)

H-275.936, Mechanisms to Measure Physician Competency

Our AMA (1) reviews and proposes improvements for assuring continued physician competence, including but not limited to performance indicators, board certification and recertification, professional experience, continuing medical education, and teaching experience; and (2) opposes the development and/or use of "Medical Competency Examination" and establishment of oversight boards for current state medical boards as proposed in the fall 1998 Report on Professional Licensure of the Pew Health Professions Commission, as an additional measure of physician competency. (Res. 320, I-98; Amended: Res. 817, A-99; Reaffirmed: CME Rep. 7, A-02; Reaffirmed: CME Rep. 7, A-07; Reaffirmed: CME Rep. 16, A-09; Reaffirmed in lieu of Res. 313, A-12)

REFERENCES

1. Wynia MK. The Role of Professionalism and Self-regulation in Detecting Impaired or Incompetent Physicians. *JAMA*. 2010;304(2):210-211.
2. Korinek LL1, Thompson LL, McRae C, Korinek E. Do physicians referred for competency evaluations have underlying cognitive problems? *Acad Med*. 2009 Aug;84(8):1015-21.
3. Durning SJ, Artino AR, Holmboe E, Beckman TJ, van der Vleuten C, Schuwirth L. Aging and cognitive performance: challenges and implications for physicians practicing in the 21st century. *J Contin Educ Health Prof*. 2010 Summer;30(3):153-60.
4. Smart DR. Physician Characteristics and Distribution in the US. American Medical Association. 2015 Ed.
5. Moutier CY, Bazzo DEJ, Norcross WA. Approaching the Issue of the Aging Physician Population (Data from the Coalition for Physician Enhancement Conference). *Journal of Medical Regulation*. 2013;99(1):10-18.
6. Bazzo DEJ. Senior Physicians Section Educational Program. June 7, 2014. Available at: www.ama-assn.org/ama/pub/about-ama/our-people/member-groups-sections/senior-physicians-section/meetings.page? (accessed 1-28-15).
7. Miller SH. Coalition for Physician Enhancement Meeting. November 10-11, 2011.
8. Lee L, Weston W. The Aging Physician. *Canadian Family Physician*. January 2012;58:17-18.
9. Eva KW. The Aging Physician: Changes in Cognitive Processing and Their Impact on Medical Practice. *Acad Med*. October 2002;77(10):S1-S6.
10. Eva KW. Stemming the tide: Cognitive aging theories and their implications for continuing education of the health professions. *J Contin Educ Health Prof*. 2003;23:133-140.
11. Meeks TW, Jeste DV. Neurobiology of wisdom: A literature overview. *Arch Gen Psychiatry*. 2009;66:355-365.
12. Grossman I, Na J, et al. Reasoning about social conflicts improves into old age. *PNAS*. 2010;107:7246-7250.
13. Peisah C, et al. Secrets to psychological success: Why older doctors might have lower psychological stress. *Aging and Mental Health*. 2009;13:300-307.
14. Benbow SM, Jolly DJ. Burnout and stress amongst old age psychiatrists. *Int J Geriatr Psychiatry*. 2002;17:710-714.
15. Jackson GR, Owsley C. Visual dysfunction, neurodegenerative diseases, and aging. *Neurol Clin*. 2003;21:709-728.
16. Jackson GR, Owsley C, Cordle EP, et al. Aging and scotopic sensitivity. *Vision Res*. 1998;38:3655-3662.
17. Waljee JF, Greenfield LJ, Dimick JB, Birkmeyer JD. Surgeon age and operative mortality. *Ann Surg*. 2006;244:353-362.
18. Choudhry NK, Fletcher RH, Soumerai SB. Systematic review: The relationship between clinical experience and quality of healthcare. *Ann Intern Med*. 2005;142:260-273.
19. Norcini JJ, Lipner RS, Benson JA, Webster GD. An analysis of the knowledge base of practicing internists as measured by the 1980 recertification examination. *Ann Intern Med*. 1985;102:385-389.
20. Day SC, Norcini JJ, Webster GD, Viner ED, Chirico AM. The effect of changes in medical knowledge on examination performance at the time of recertification. *Res Med Educ*. 1988;27:138-144.
21. Sample L, LaDuca T, Leung C, et al. Comparing patient-management skills of referred physicians and non-referred physicians on a computer-based case-simulation examination. *Acad Med*. 2001;76(10 suppl):S24-S26.
22. Turnbull J, Carbotte R, Hanna E, et al. Cognitive difficulty in physicians. *Acad Med*. 2000;75:177-181.
23. Turnbull J, Cunningham J, Unsal A, et al. Competence and cognitive difficulty in physicians: a follow-up study. *Acad Med*. 2006;81:915-918.
24. Korinek LL, Thompson LL, McRae C, Korinek E. Do physicians referred for competency evaluations have underlying cognitive problems? *Acad Med*. 2009;84:1015-1021.
25. Norman GR, Davis DA, Lamb S, Hanna E, Caulford P, Kaigas T. Competency assessment of primary care physicians as part of a peer review program. *JAMA*. 1993;270:1046-1051.
26. Caulford PD, Lamb SB, Kaigas TB, Hanna E, Norman GR, Davis DA. Physician incompetence: Specific problems and predictors. *Acad Med*. 1994;69(10 supplement):S16-S18.

27. McAuley RG, Paul WM, Morrison GH, Beckett RF, Goldsmith CH. Five-year results of the peer assessment program of the College of Physicians and Surgeons of Ontario. *CMAJ*. 1990;143:1193-1199.
28. Grace ES, Wenghofer EF, Korinek EJ. Predictors of physician performance on competence assessment: Findings from CPEP, the Center for Personalized Education for Physicians. *Acad Med*. June 2014;89(6):912-919.
29. Perry W, Crean RD. A retrospective review of the neuropsychological test performance of physicians referred for medical infractions. *Arch Clin Neuropsychol*. 2005;20:161-170.
30. Stolley PD, Becker MH, Lasagna L, et al. The relationship between physician characteristics and prescribing appropriateness. *Med Care*. 1972;10:17-28.
31. Rhee So. Factors determining the quality of physician performance in patient care. *Med Care*. 1976;14:733-750.
32. Southern WN, Bllin EY, Arnsten JH. Longer lengths of stay and higher risk of mortality among inpatients of physicians with more years in practice. *Am J Med*. 2011;124:868-874.
33. Norton PG, Dunn EV, Soberman L. What factors affect quality of care? Using the Peer Assessment Program in Ontario family practices. *Can Fam Physician*. 1997;43:1739-1744.
34. Ashworth M, Schofield P, Seed P, Durbaba S, Kordowicz M, Jones R. Identifying poorly performing general practices in England: A longitudinal study using data from the quality and outcomes framework. *J Health Serv Res Policy*. 2011;16:21-27.
35. Reid RO, Friedberg MW, Adams JL, McGlynn EA, Mehrotra A. Association between physician characteristics and quality of care. *Arch Intern Med*. 2010;170:1442-1449.
36. Morrison J, Wickerhsam JS, MAPStat. Physicians disciplined by a state medical board. *JAMA*. 1998;279:1889-1893.
37. Kohatsu ND, Gould D, Ross LK, Fox PJ. Characteristics Associated with Physician Discipline. *Arch Int Med*. 2004;164:653-658.
38. Weycker DA, Jensen GA. Medical malpractice among physicians: Who will be sued and who will pay? *Health Care Manage Sci*. 2000;3:269-277.
39. Goulet F, Jacques A, Gagnon R, et al. Performance assessment: Family physicians in Montreal meet the mark! *Can Fam Physician*. 2002;48:1337-1344.
40. Duclois A, Peix JL, Colin C, et al. Influence of experience on performance of individual surgeons in thyroid surgery: Prospective cross sectional multicenter study. *BMJ*. 2012;344:d8041.
41. O'Neill L, Lanska DJ, Hartz A. Surgeon characteristics associated with mortality and morbidity following carotid endarterectomy. *Neurology*. 2000;55:773-381.
42. Heck DA, Robinson RL, Partridge CM, Lubitz RM, Freund DA. Patient outcomes after knee replacement. *Clin Orthop Relat Res*. 1998;356:93-100.
43. Hartz AJ, Kuhn EM, Pulido J. Prestige of training programs and experience of bypass surgeons as factors in adjusted patient mortality rates. *Med Care*. 1999;37:93-103.
44. Callaghan CJ, Couto E, Kerin MJ, Rainsbury RM, George WD, Puroshotham AD. Breast reconstruction in the United Kingdom and Ireland. *Br J Surg*. 2002;89:335-340.
45. Ahmad S, Lettsome L, Schuricht A. The role of laparoscopy in the management of groin hernia. *JLSLS*. 1998;2:169-173.
46. Neumayer LA, Gawande AA, Wang J, et al. Proficiency of surgeons in inguinal hernia repair: effect of experience and age. *Ann Surg*. 2005;242:344-348.
47. Wang DS, Winfield HN. Survey of urological laparoscopic practice patterns in the Midwest. *J Urol*. 2004;172:2282-2286.
48. Campbell EG, Regan S, Gruen RL, et al. Professionalism in Medicine: Results of a National Survey of Physicians. *Annals of Internal Medicine*. 2007;147:795-802.
49. DesRoches CM, Rao SR, Fromson JA, et al. Physicians' perceptions, preparedness for reporting, and experiences related to impaired and incompetent colleagues. *JAMA*. 2010;304(2):187-193.
50. Kruger J, Dunning D. Unskilled and unaware of it: How difficulty in recognizing one's own incompetence lead to inflated self-assessments. *J Pers Soc Psychol*. 1999;77:1121-1134.
51. The Joint Commission. 2015 Comprehensive Accreditation Manual for Hospitals: The Patient Safety Systems. Chapter MS.09.01.01.
52. Krisberg K. Policies Targeted Toward Aging Physicians May Keep Doctors Working Longer, Smarter. *AAMC Reporter*. April 2013. Available at: www.aamc.org/newsroom/reporter/april2013/334334/aging-physicians.html(accessed 8-28-14)

53. Washington Post: www.washingtonpost.com/national/health-science/as-doctors-grow-older-hospitals-begin-requiring-them-to-prove-theyre-still-fit/2012/12/10/42bb4d90-2d0e-11e2-a99d-5c4203af7b7a_story.html (accessed 1-30-15).
54. Lifeguard. Pennsylvania Medical Society. Available at: www.lifeguardprogram.com/pathways/aging-physician-assessment (accessed 9-12-14).
55. Colorado Physician Health Program. Available at: www.cphp.org/ (accessed 10-10-14).
56. College of Physicians and Surgeons of Ontario. Available at: <http://www.cpso.on.ca/CPSO-Members/Membership-Info-Fees/Changing-Scope-of-Practice> and www.cpso.on.ca/CPSO-Members/Peer-Assessment (accessed 1-30-15).
57. Thompson LL. Neuropsychological assessment of physicians whose competency to practice medicine is being questioned. In: Prigatano GP, Pliskin MH, eds. *Clinical Neuropsychology and Cost Outcome Research: A Beginning*. New York, NY: Psychology Press; 2003:373-392.
58. Adler RG1, Constantinou C. Knowing - or not knowing - when to stop: cognitive decline in ageing doctors. *Med J Aust*. 2008 Dec 1-15;189(11-12):622-4.
59. Rentz Dm Huh TJ, Faust RR, et al. Use of IQ-adjusted norms to predict progressive cognitive decline in highly intelligent older individuals. *Neuropsychology*. 2004;18:38-49.
60. Blasier RB. The problem of the aging surgeon: When surgeon age becomes a surgical risk factor. *Clin Orthop Relat Res*. 2009;467:402-411.
61. Cervero RM. Place matters in physician practice and learning. *J Contin Educ Health Prof*. 2003;23:S10-S18.
62. Wenghofer EF, Williams AP, Klass DJ. Factors affecting physician performance: Implications for performance improvement and governance. *Healthc Policy*. 2009;42:141-160.
63. Rethans JJ, Norcini J, Baron-Maldonado M, Blackmore DE, Jolley DM, LaDuce A, Lew SR, Page GG, Southgate L. The relationship between competence and performance: Implications for assessing practice performance. *Med Edu*. 2002;36:901-909.
64. Kopelow M, Schnabel GK, Hassard TH, Klass DJ, Beazley F, Hechter F, Grott M. Assessing practicing physicians in two settings using standardized patients. *Acad Med*. 1992;67:S19-S21.
65. AMA Code of Medical Ethics, Opinion 9.0305, Physician Health and Wellness. American Medical Association. Available at: www.ama-assn.org/ama/pub/physician-resources/medical-ethics/code-medical-ethics/opinion90305.page (accessed 1-31-15).
66. Tarkan L. As Doctors Age, Worries About Their Ability Grow. *The New York Times*. January 24, 2011.
67. Gardner LB. Who Holds Physicians Accountable? *Transactions of American Clinical and Climatological Assn*. 2007; 118: 57-68.
68. Loboprabhu SM, Molinari VA, Hamilton JD, Lomax JW. The aging physician with cognitive impairment: approaches to oversight, prevention, and remediation. *Am J Geriatr Psychiatry*. 2009 Jun;17(6):445-54.
69. Iglehart JK 1, Baron R.B. Insuring Physicians' Competence—Is Maintenance of Certification the Answer? *N Engl J Med*. 2012, 367: 2543-2549.
70. CME Report 3-A-09, Remediation Programs for Physicians, Council on Medical Education. American Medical Association. Available at: <https://download.ama-assn.org/resources/doc/council-on-med-ed/x-pub/cme-report-3a-09.pdf> (accessed 1-30-15).
71. Hanna E, Premi J, Turnbull. Results of remedial continuing medical education in dsyscompetent physicians. *Acad Med*. 2000;75:174-176.
72. Burroughs J. The aging physician: Balancing safety, respect, and dignity. Medical Staff Leader Insider, September 23, 2009. Available at: www.hcpro.com/MSL-239454-871/The-aging-physician-Balancing-safety-respect-and-dignity.html (accessed 1-30-15).