EXECUTIVE SUMMARY

The Americans with Disabilities Act (ADA), which was enacted in 1990 and amended in 2008, protects people with disabilities from discrimination; works to provide fair access to goods, services, and education; and promotes equal opportunity. The ADA was amended to specify and expand on who is considered disabled and lowered the burden of proof to establish oneself as a person with a disability. An impairment or disability does not need to prevent or significantly restrict a major life activity to be considered as substantially limiting, and not every impairment will qualify as a disability. An individualized assessment is required to determine if the individual’s impairment substantially limits a major life activity as compared to most people in the general population.

Among the employed U.S. adult population (ages 16 and older), 5.8 percent report some sort of disability (that is, difficulties with hearing, vision, cognition, mobility, selfcare, and independent living). Recent data indicate that 4.6 percent of enrolled medical students have requested an accommodation for a disability, a percentage that has grown recently. Attention deficit hyperactivity disorder was the most commonly reported disability, followed by psychological disability and learning disability. Considerably less is known of the prevalence of disabilities in residents and fellows in graduate medical education (GME). Results from a recent national survey suggest that approximately 3 percent of practicing physicians have a disability.

Medical schools maintain technical standards that inform a prospective or current medical student what a school’s expectations are for cognitive, sensory, and mobility abilities. GME institutions are required to have policy regarding accommodations for disabilities consistent with all applicable laws and regulations. Students and residents with disabilities may encounter two types of barriers—structural and cultural. Structural barriers may include restrictive and outdated policies and procedures, the inability to locate or correctly interpret the technical standards for a given institution, poor understanding of clinical accommodations, a lack of disability and wellness support services, and a physical environment that limits accessibility. Cultural barriers include the attitudes, beliefs, and values of the medical community.

Learners with disabilities require access to information to make informed decisions about whether an educational environment has the appropriate resources and institutional culture to support necessary accommodations. Institutions should review and evaluate their technical standards to ensure that they embrace the functional capabilities of individual learners. Standards should emphasize what the learner can do rather than what they cannot do. Institutions, both undergraduate and graduate, should have readily available designated disability service providers who are expert in the ADA and aware of current resources and strategies to best process accommodation requests. Research on which accommodations are most effective in clinical learning environments will assist in determining future strategies for creating a safe and inclusive medical workforce.
REPORT OF THE COUNCIL ON MEDICAL EDUCATION

CME Report 2-N-21

Subject: A Study to Evaluate Barriers to Medical Education for Trainees with Disabilities

Presented by: Niranjan Rao, MD, Chair

Referred to: Reference Committee C

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American Medical Association (AMA) Policy D-295.929, “A Study to Evaluate Barriers to Medical Education for Trainees with Disabilities,” directs our AMA to “work with relevant stakeholders to study available data on: (1) medical trainees with disabilities and consider revision of technical standards for medical education programs; and (2) medical graduates with disabilities and challenges to employment after training.”

This report, which is in response to this directive, includes: 1) a brief summary of the Americans with Disabilities Act and its later amendment, as well as a summary of Section 504 of the Rehabilitation Act of 1973; 2) a review of available data on the prevalence of disabilities among medical students, residents, and physicians; 3) examples of accommodations made for medical learners and physicians as well as types of barriers; and 4) a discussion of proposed recommendations.

BACKGROUND

The Americans with Disabilities Act (ADA), which was enacted in 1990 and amended in 2008, protects people with disabilities from discrimination; works to provide fair access to goods, services, and education; and promotes equal opportunity. The ADA was amended to specify and expand on who is considered disabled and lowered the burden of proof to establish oneself as a person with a disability. The law requires an interactive process between a job applicant (or employee or student) and the employer (or educational program) to share information about the nature of the disability and limitations that may affect the individual’s ability to perform essential duties. The employer (or educational program), in turn, must engage in a flexible dialogue that addresses the employee’s specific disability and investigate reasonable accommodations that allow equal access to the work (or educational) environment. Section 504 of the Rehabilitation Act of 1973 works with the ADA, in that it prohibits discrimination against an otherwise qualified person with a disability in programs or activities that receive federal funding.

In the amended ADA, a disability is defined as a “physical or mental impairment that substantially limits one or more life activities; a record (or past history) of such an impairment; or being regarded as having a disability.” This contrasts with an impairment, which is a loss of function that results from some cause, injury, or body part. An impairment does not need to significantly restrict a major life activity to be considered as substantially limiting and not every impairment will qualify as a disability. An individualized assessment is required to determine if an individual’s impairment substantially limits a major life activity as compared to most people in the general population. With the exception of eyeglasses or contact lenses, a determination of whether an impairment substantially limits a major life activity is made without regard to improvement resulting from mitigating factors, such as medication or hearing aids. Non-ameliorative effects also

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may be considered when determining if an impairment is substantially limiting, including negative side effects of medication or burdens associated with following a particular treatment regimen.4,5

Medical School Accreditation Standards Regarding Student Disabilities

The Liaison Committee on Medical Education (LCME) accredits medical education programs leading to the MD degree in the United States. Requirements concerning medical students with disabilities are addressed in Standard 10.5: A medical school develops and publishes technical standards for the admission, retention, and graduation of applicants or medical students in accordance with legal requirements. Element 10.5 provides further detail:

Element 10.5: Technical standards for the admission, retention, and graduation of applicants or medical students: A statement by a medical school of the: 1) essential academic and non-academic abilities, attributes, and characteristics in the areas of intellectual-conceptual, integrative, and quantitative abilities; 2) observational skills; 3) physical abilities; 4) motor functioning; 5) emotional stability; 6) behavioral and social skills; and 7) ethics and professionalism that a medical school applicant or enrolled medical student must possess or be able to acquire, with or without reasonable accommodation, in order to be admitted to, be retained in, and graduate from that school’s medical educational program.6

In addition, schools are to communicate Standard 10.5 in hard copy and/or online in a manner that is easily available to and accessible by the public.

In assessing compliance with Standard 10.5, the LCME survey team during the site visit (typically occurring every eight years) will ask the school to provide the following information:7

1. How does the medical school disseminate its technical standards for admission, retention, and graduation to potential and actual applicants, enrolled medical students, faculty, and others?

2. How are medical school applicants and/or medical students expected to document that they are familiar with and capable of meeting the technical standards, with or without accommodation (e.g., by formally indicating that they have received and reviewed the standards)?

In addition, Element 3.4, Anti-Discrimination Policy, requires that a medical school has policy in place to ensure that it does not discriminate on the basis of age, disability, gender identity, national origin, race, religion, sex, sexual orientation, or any basis protected by federal law. This language, revised by the LCME in October 2019, is in effect for schools in the academic year 2021-2022. Schools will be asked to describe how their anti-discrimination policy is made known to members of the medical education community.

The American Osteopathic Association’s Commission on Osteopathic College Accreditation (COCA) accredits medical education programs leading to the DO degree in the United States. Element 9.1 addresses admissions policies for a college of osteopathic medicine (COM):

A COM must establish and publish, to the public, admission requirements for potential applicants to the osteopathic medical education program and must use effective policies and procedures for osteopathic medical student selection for admission and enrollment, including technical standards for admissions. A COM must tie all admissions to the COM mission.
Submission 9.1: Admission Policy

1. Provide all admission requirements and policies and procedures for osteopathic medical student selection and enrollment.
2. Provide a copy of the technical standards required of matriculants.
3. Provide a public link to where the documents are published.

In addition, Element 1.5 addresses non-discrimination:

A COM must demonstrate non-discrimination in the selection of administrative personnel, faculty and staff, and students based on race, ethnicity, color, sex, sexual orientation, gender, gender identity, national origin, age or disabilities, and religion.

Furthermore, the Educational Council on Osteopathic Principles (ECOP) has recommended non-academic criteria for admission and continued program participation for osteopathic medical students enrolled in DO programs. A “Technical Standards Document,” made available through ECOP and distributed by the American Association of Colleges of Osteopathic Medicine (AACOM) defines the reasonable expectations of osteopathic medical students and physicians in performing common and important functions of the osteopathic physician.

Residency/Fellowship Program Accreditation Standards Regarding Trainee Disabilities

The Accreditation Council for Graduate Medical Education (ACGME) accredits residency and fellowship programs and sets requirements for programs as well as the institutions in which training occurs.

The ACGME’s Common Program Requirements (CPRs) outline resources that must be provided to residents and fellows. The program, with its sponsoring institution, must ensure a healthy and safe learning and working environment that, among other things, provides “accommodations for residents with disabilities consistent with the Sponsoring Institution’s policy.” [I.D.2.c]. In addition, the program director and the leadership team must “ensure the program’s compliance with the Sponsoring Institution’s policies and procedures on employment and non-discrimination” [II.A.4.a.(13)]. Finally, the learning environment must be a “professional, equitable, respectful, and civil environment that is free from discrimination, sexual and other forms of harassment, mistreatment, abuse, or coercion of students, residents, faculty, and staff” [VI.B.6].

The ACGME’s Institutional Requirements delineate the responsibility of the sponsoring institution regarding graduate medical education (GME). Among other services provided to trainees, such as behavioral health counseling, the institution “must have a policy, not necessarily GME-specific, regarding accommodations for disabilities consistent with all applicable laws and regulations.” [IV.H.4.[11]

In all situations for UME and GME, accommodations for an individual with a disability are expected, provided that the accommodation does not fundamentally alter the program, service, or activity associated with the job function or if it would impose undue financial or administrative burden upon the program or institution.
PREVALENCE OF DISABILITIES AMONG MEDICAL STUDENTS, RESIDENTS/FELLOWS, AND PHYSICIANS

Among the employed U.S. adult population (ages 16 and older), 5.8 percent report some sort of disability (that is, difficulties with hearing, vision, cognition, mobility, self-care, and independent living). The most commonly reported disability for employed adults is mobility (2.0 percent), followed by hearing (1.8 percent), cognitive (1.7 percent), vision (1.3 percent), independent living (1.0 percent), and self-care (0.4 percent).12

Two major surveys have been conducted to assess the prevalence and categories of disabilities among students of MD-granting medical schools. Medical school staff responsible for assisting students with implementing accommodations for their disabilities were surveyed in 2016.13 Complete data were provided by 89 of 133 schools surveyed. Disabilities were reported for 2.7 percent of total enrollment, ranging from 0 percent to 12 percent. Attention deficit hyperactivity disorder (ADHD) was the most prevalent disability (33.7 percent), followed by learning disabilities (21.5 percent); psychological disabilities, such as depression or anxiety (20.0 percent); chronic health issues (13.1 percent); other functional impairment (3.9 percent); visual impairment (3.0 percent); mobility disability (2.5 percent); and deafness (2.2 percent).18

A follow-up survey in 2019 allows a comparison across time for the same schools.14 Overall, the 87 schools that responded in 2019 with complete data reported that 2,600 students had a disability, representing 4.6 percent of enrollment, a 69 percent increase compared to 2016. Data for the 64 schools that responded to both surveys is presented in the table.

<table>
<thead>
<tr>
<th>Number of MD students (percent) with a disability, 2016 and 2019</th>
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<tr>
<td></td>
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<tr>
<td>ADHD</td>
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<td>Learning disability</td>
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<tr>
<td>Psychological disability</td>
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<td>Chronic health disabilities</td>
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<td>Mobility disability</td>
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<tr>
<td>Visual disabilities</td>
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<tr>
<td>Deaf or hard of hearing</td>
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<tr>
<td>Other functional impairment</td>
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<tr>
<td>Overall disabilities</td>
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</tbody>
</table>

The increase overall, and the changes in the reported type of disability, may represent more students with disabilities being admitted to medical school, more existing students reporting a disability, more complete reporting by the schools, more psychological disability presenting during medical school (the largest difference between years), or a combination of these factors.14

A third survey has documented the prevalence and categories of disabilities among students of DO-granting medical schools.15 Using the same techniques as the surveys of MD-granting schools, 32 eligible DO medical schools were surveyed, and 24 responded. Similar to MD schools, ADHD, psychological disabilities, and chronic health disabilities were most frequently reported. Compared to the total 2019 MD data (not shown), DO-granting schools reported significantly higher rates of ADHD (33.5 percent) among those students with a disability than MD-granting programs (29.1 percent), and lower rates of psychological disability (23.7 percent vs 32.3 percent). Other disabilities were reported at similar rates.
Less is known about the prevalence of disabilities in residents and fellows in GME. A recent survey of academic family medicine departments (n=191) concerning prevalence of residents with disabilities as well as residency program processes for accommodation, found relatively few department chairs reporting having residents in the preceding five years who had a disability. Fifty percent of the 66 respondents reported no resident with a disability, 16.7 percent reported one resident, and 33.3 percent reported two to five residents. There are more than 700 family medicine GME programs in the United States, so these findings may not be representative of family medicine residency programs overall.

The GME environment, in which the learner is also an employee, may discourage trainees from disclosing disabilities, either during the interview for a residency position or after joining the program. Furthermore, the difference in administrative structure in GME, compared to medical school, may challenge residents/fellows seeking accommodation, and thus deter them from reporting a disability. Nonetheless, it can be assumed that disabilities reported in medical school will continue to be experienced by trainees in GME.

Information on the prevalence of disabilities among practicing physicians is also relatively scarce. One survey distributed in 2014 to 148 family medicine department chairs found that 31 (of the 88 respondents) reported faculty with a physical or sensory disability. The most common disabilities reported for the 50 faculty members were mobility, hearing, and mental health problems. Only seven of the department chairs knew of these disabilities at hiring. A similar survey conducted in 2019 found fewer family medicine department chairs reporting faculty members with disabilities (21 chairs reporting out of 68 respondents). Both surveys had low response rates, and it is likely that disability among faculty physicians is under-reported. A national survey of physicians in 2019 included questions regarding disabilities. Of 6,000 physicians (a representative sample), 178 (3.1 percent of the weighted sample) self-identified as having a disability. The most commonly reported disability was a chronic health condition (30.1 percent), followed by psychological (14.2 percent), other disabilities (e.g., essential tremors) (13.4 percent), hearing (12.1 percent), ADHD (10.4 percent), visual (7.8 percent), and learning (2.6 percent). Multiple disabilities were reported by 15.7 percent. The proportion of physicians reporting a disability is considerably lower than that reported by the employed adult population overall and may reflect under-reporting and/or that the profession of medicine is perceived as inhospitable and discouraging to those with disabilities.

**EXAMPLES OF ACCOMMODATION**

Similar to data on the prevalence of disabilities, information on the types of accommodations provided is more common for medical students than for physicians. The most frequent accommodations reported in 2016 by medical schools for students with disabilities include the following:

- Testing, such as providing extra time and/or low distraction environments (97.8 percent)
- Facilitated learning, such as note takers and/or recorded lectures (69.7 percent)
- Assistive technologies, such as text-to-speech (42.7 percent)
- Clinical, such as leaves of absence and/or relief from overnight call (34.8 percent)
- Housing, such as single rooms and reserved parking (23.6 percent)
- Hearing-related, such as employing a transcriptionist or sign language interpreter (18.0 percent)
- Ergonomic (15.7 percent)

In the follow-up survey in 2019, questions about accommodations were divided into didactic and clinical environments and results were similar. Testing accommodations were most often reported in the didactic years (100 percent of schools), but 75 percent of schools reported this
accommodation for the clinical years as well. Facilitated learning was reported only for didactic years by 77.4 percent of schools, as were ergonomic accommodations (35.7 percent). Accommodations in the clinical environment were reported by 68.7 percent of schools. In the similar study of DO-granting schools, all DO students disclosing disability received a form of didactic or clinical accommodations, compared to 93.3 percent of MD students. Accommodations to the clinical environment, such as a decelerated clinical year or release from overnight call, were more frequently provided in MD-granting programs when compared to DO-granting programs (68.7 percent vs 21.7 percent).

New and existing technologies allow trainees to meet standards and work within a clinical setting. For example, amplified and visual stethoscopes, standing wheelchairs, dictation software, and Communication Access Real-Time Translation have allowed students and physicians with disabilities, such as hearing/visual impairment or spinal cord injuries, to earn their medical degrees and enter practice. Intermediaries can also be used in the clinical setting, in which students or physicians direct trained professionals to perform actions that the disabled individuals cannot conduct themselves. An example of an adaptive environment for a deaf medical student in a one-month visiting rotation in emergency medicine has been described in which a designated health care interpreter, captioning added to instructional videos in online learning platforms, an adaptive headset, and specialized medical sign language developed for the rotation (for terms not in American Sign Language) were successfully integrated into the rotation.

In a study of family medicine faculty, the most commonly reported accommodations provided for faculty with disabilities were adjusting the work schedule and providing additional time to complete tasks. Also common was the use of assistive technology and durable equipment.

In a review of medical school technical standards, found online or available upon request, roughly 40 percent of schools provided information on types of accommodations allowed for hearing, vision, and mobility disabilities. Of those, 97 percent allowed auxiliary aids for all three types of disabilities. A slightly smaller number of schools (approximately 85 percent) provided information on whether intermediaries (such as interpreters) were allowed as accommodations; few schools allowed them (approximately 15 percent).

**BARRIERS FACED BY TRAINEES**

A recent report by the Association of American Medical Colleges (AAMC), “Accessibility, Inclusion, and Action in Medical Education: Lived Experiences of Learners and Physicians with Disabilities,” represents the culmination of in-depth interviews with students, residents, and physicians with disabilities. Several of the report’s many recommendations are highlighted below.

The report describes two types of barriers confronting students and residents with disabilities—structural and cultural. Structural barriers include restrictive and outdated policies and procedures, poor understanding of clinical accommodations, a lack of disability and wellness support services, and a physical environment that limits accessibility. These barriers can have immediate and practical implications for trainees. Cultural barriers include the attitudes, beliefs, and values of the medical community.

**Medical School Technical Standards and Facilitating Access**

The technical standards (TS) that a medical school publishes are used to inform a prospective or current medical student about a school’s expectations for cognitive, sensory, and mobility abilities. The AAMC has released guidelines for TS and a handbook on students with disabilities,
but it is up to schools to develop their own standards. There is great variability between schools, with some using inclusive, detailed language and identifying possible accommodations, such as interpreters and transcriptionists. Other schools state, for example, that students need to hear “adequately” for communication and that an intermediary is not appropriate, or that “significant” disabilities must be disclosed. Leaving the definition of “adequately” and “significant” up to a prospective student may deter those with disabilities from applying.

Clear, easily obtainable TS are important for prospective students with disabilities in ascertaining which schools may be welcoming and supportive. In 2016 Zazove et al. published the results of a study to determine the availability of TS in medical schools and evaluated the language used in TS relative to the ADA. Their research covered the years 2012-2014 and included all MD- and DO-granting schools. They found that 84 percent of all schools had TS available on their websites. Ten percent of MD schools and six percent of DO schools did not have TS on their websites or make their TS available even after two inquiries. One-third of schools used language that expressed a willingness to provide accommodations for disabilities, 49 percent used equivocal language, five percent used unsupportive language, and 14 percent did not provide information on accommodations. One-third of schools required full function of hearing, 26 percent required full function of vision, and 24 percent required full mobility functionality. Roughly 10 percent did not provide information on function level required. Overall, schools with language in the TS that expressed a willingness to accommodate students with disabilities were also more likely to allow reasonable accommodations, assume responsibility for providing those accommodations (rather than the student), accept auxiliary aides, and accept intermediaries. Additional study is required to determine any changes in the number of schools making available their TS and their willingness to provide accommodations.

A criticism leveled at many TS is that there may be a focus on deficits rather than on the ability to perform the work. An “organic” standard requires students to demonstrate physical, cognitive, behavioral, and sensory abilities without assistance. For example, students are expected to have hearing ability at a particular decibel level without assistance. A “functional” standard focuses on the student’s abilities, with or without assistive technology or accommodation, and may state that students must be able to obtain the necessary information by hearing or other means. McKee et al. discuss how organic TS are based on three assumptions that are not derived from empirical evidence: 1) accommodations pose patient safety risks; 2) accommodations are costly; and 3) graduates, even those with disabilities, should be able to pass licensure exams without accommodation.

Concerning patient safety, no legal case has been found to demonstrate harm to a patient based on an accommodation provided to a physician with a disability. Physicians and students with disabilities typically are aware of their limitations and develop strategies to adapt to the environment. The costs of accommodation vary greatly. The ADA does not allow cost to justify discrimination toward students or physicians with disabilities. Medical schools, residency/fellowship programs, and employers are ultimately responsible for paying for reasonable accommodations. Assistive technologies rapidly change, and appropriate, cost-effective accommodations can be found on industry and government websites. The ADA requires licensure examinations to provide appropriate accommodations such as sign language interpreters and extended test time. The incorporation of accommodation into the testing environment thus mimics the learning and practicing environment of the student or physician, and the examination assesses performance more accurately than if the disabled test taker were denied accommodation.

The Association of Academic Physiatrists has addressed the issue of updating medical school TS. Stating that a functional approach to TS promotes inclusivity by emphasizing abilities rather than
limitations, its report describes standards that allow students to use accommodations and permit
incorporation of technological and medical advances as they become available. Functional TS
describe what skills the student must master—e.g., effective communication with patients and the
care team—but not the manner in which the student must achieve them (e.g., must use vision, etc.).
Changes in medical practice and medical education coincide with an increased use of assistive
technology, for all health professionals regardless of limitations. Team-based care, new
information management skills, and an emphasis on problem-solving skills rather than
memorization of facts combined with competency-based education can allow for performance
assessment of students with disabilities using reasonable accommodations. Students can
demonstrate mastery of skills through alternative methods.

Entry to GME

Students in or graduates from MD-granting medical schools who are applying to U.S. residency
programs generally must pass or at least have taken USMLE® Step 1 and Step 2 to be offered an
interview invitation from a residency program. The National Board of Medical Examiners®
(NBME), which co-owners the USMLE with the Federation of State Medical Boards, provides a
process through which a prospective exam taker can request disability accommodations for the
examinations. Extensive documentation of the disability as well as evidence of previous
educational examination and educational accommodations is required. The NBME requests at least
60 days to process a request. Applicants who have applied for and received accommodations for
Step 1 must apply again for accommodations for Step 2.25 Medical schools provide timelines for
students who may seek accommodation from the NBME and advise a minimum of 6 months to
include document preparation, submission, and review by the NBME plus additional time in case
of an appeal.26,27 Students, however, have anecdotally reported lengthier response times from the
NBME, resulting in delays in taking the exam(s), which have in turn impacted application to and
acceptance into residency programs.

Similarly, students in or graduates from DO-granting institutions who are applying to U.S.
residency programs generally must pass or at least have taken COMLEX-USA Examination Level
1 and Level 2 to be offered an interview invitation from a residency program. The National Board
of Osteopathic Medical Examiners® (NBOME) provides a process through which a prospective
exam taker can request disability accommodations for the examinations. Documentation of the
disability and a completed application is required. The NBOME states that the process may require
90 days from receipt of a completed application to process a request, though additional time may
be necessary prior to rendering a decision.28

Once in GME, similar to the undergraduate environment, structural barriers for disabled learners
include an absence of 1) clearly defined policies and processes; 2) a knowledgeable and
responsible point person for facilitating accessibility requests; and 3) an understanding of legal
requirements under the ADA.18

The ACGME requires that sponsoring institutions have policy regarding accommodations for
disabilities and that GME programs both provide accommodations for residents with disabilities
consistent with the employing sponsoring institution as well as comply with that institution’s policy
on employment and nondiscrimination. Unlike medical school TS, there is no requirement as to
where or how an applicant to a training program can find that information. A recent review was
carried out of institutional policies of the 50 largest training institutions to assess compliance with
the ACGME’s Common Program Requirements and Institutional Requirements (I.D.2.e, and
IV.H.4., respectively) concerning disability.29 The review also analyzed GME policy in terms of
alignment with recommendations included in the AAMC’s report (mentioned above) on disability.
The majority of institutions maintained a GME policy online (76 percent) or provided one upon request (18 percent). Of the 47 institutions with GME policy available, 32 (68 percent) contained a statement on disability in compliance with ACGME requirements, 23 with the statement found online. Of those institutions with a disability policy, 12 (38 percent) included language that encouraged disability disclosure, 17 (53 percent) provided a statement regarding the confidential nature of documentation regarding accommodation, and 19 (59 percent) described a procedure for disclosing disabilities and requesting accommodation. The AAMC report on accessibility and inclusion in medical education recommends institutions have on staff a designated point person(s) for disability concerns, through which accommodation requests should pass. Of the institutions with policy reviewed, only 5 reported such a process. Over half of the 32 institutions required residents to disclose a disability to program directors (some to program directors and a member of human resources), not in line with AAMC recommendations. In addition, findings from the survey of chairs of family medicine departments found that while 56.3 percent of chairs reported they had a written policy for disability disclosure, 36.6 percent did not know if they had one, and seven percent reported no written policy available. As found in the above study of institutions, over half of family medicine department chairs confirmed that the program director was the contact for disability disclosure, which can be a conflict of interest and against recommendations.

Clearly stated and easily found accommodation policies can help applicants determine if a program and its institution are willing to work with the resident to maximize the learning environment. Ambiguous or absent policies may lead an applicant to assume that the program will not make accommodations, which will discourage applying to the program, or, if accepted, may prevent the resident from seeking assistance with a disability. Students are encouraged to discuss accommodations with a program immediately after matching into the program to ensure ample time for implementing schedule changes or accommodations; however, students may be reluctant to do so if they perceive that a disability will be seen as a liability.

It is possible that some disabilities may be less apparent in virtual versus live interviews (e.g., physical disabilities). A review of the literature on best practices for virtual interviews for residency did not include a discussion on the impact of virtual interviews may have on disability disclosure.

A designated, qualified person responsible for processing requests for accommodation and managing disability services is essential to ensure that residents are confident that the process is administered professionally and confidentially. A disabilities service provider may be within the human resources department or a part of an institution-wide disabilities committee. The provider or committee will be aware of the legal obligations of the ADA, unlike program directors or program staff, who may not be. A program may offer accommodations to residents with apparent disabilities; residents with non- or less-apparent disabilities, but who are uncomfortable disclosing disabilities to program directors, may not receive an offer. Without clearly stated policy and an expert to manage the interactive process of determining reasonable accommodations, residents may fruitlessly disclose their disabilities to staff who are without knowledge or authority to assist and may experience delays in obtaining accommodations.

**BALANCE WITH PATIENT SAFETY**

Melnick cautions that the laudable goal of increasing inclusion must be balanced against the medical profession’s responsibility to place the interests of patients “above the interests of aspiring students.” Furthermore, the profession has done little to develop consensus on what accommodations would fundamentally alter the formation and assessment of a physician. Medical schools employ TS to provide guidance, but GME lacks similar standards. A goal of current
medical education is to prepare a physician who can demonstrate proficiency in the
undifferentiated practice of medicine. State licensing authorities lack consensus on what comprises
essential physical and cognitive capabilities for physicians. Melnick proposes discussion and
research on what those essential abilities are, so that individual learners with disabilities can be
supported in a way that does not alter the profession’s ability to teach and assess those essential
abilities. Meeks et al.21 also propose an ecological study to measure the performance path of
learners with disabilities, identify what assistance and accommodations are best suited to various
disabilities, track the employment experiences of physicians with disabilities, and examine the
effect of those physicians on patient care. Little is known about the process by which physicians
with disabilities find employment, although it is assumed that they are guided by past experience
with the ADA process and responses of various educational and institutional administrations.

CURRENT AMA POLICY

AMA policies related to this topic are listed in the Appendix.

SUMMARY AND RECOMMENDATIONS

The medical education community should accelerate the pace of inclusion of physicians with
disabilities for several reasons. The ADA stipulation that institutions cannot discriminate against a
qualified individual on the basis of disability and requires institutions to make reasonable
accommodations to allow the individual equal opportunity to participate in the institution’s
programs (or employment). Second, in 2016 the U.S. population was estimated to have a disability
rate of 12.8 percent (some estimates are higher), increasing by 7.6 percent since 2010.11 The rate at
which medical students present with disabilities is also growing—specifically, 4.6 percent of
students enrolled in 2019 compared to 2.7 percent in 2016. Although the number of physicians with
disabilities in the health care workforce is small, estimated at 3.1 percent, it is believed that these
physicians can better understand and empathize with patients with disabilities. A more diverse
population of medical students and physicians, including those with disabilities, can introduce new
approaches to care, both for patients with and without disabilities.23 Improved education about
disability coupled with the opportunity to learn directly from peers with disabilities in the medical
education setting can challenge existing beliefs about disabilities and increase awareness of the
potential of both patients and physicians with disabilities.22

To increase access to medical education for learners with disabilities, it is important that applicants,
either to medical schools or residency programs, have ready access to the information necessary to
make an informed decision about whether that educational environment has the appropriate
resources and institutional culture to support necessary accommodations. Institutions should review
and evaluate their technical standards to remove restrictive “organic” standards and replace them
with “functional” standards that emphasize what learners can do rather than what they cannot do.
Institutions, undergraduate and graduate, should have readily available designated disability service
providers who are knowledgeable about the ADA and aware of current resources and strategies to
best process accommodation requests. Providers of high-stakes examinations need to remain
responsive and flexible in reviewing and approving accommodations, especially if the number of
exam takers with disabilities increases. Research on which accommodations are most effective in
the patient care and learning environment will assist in determining future strategies for creating a
safe and inclusive medical workforce. Future study may be warranted to examine challenges to
employment after training for individuals with disabilities, as there are limited data available on
physicians with disabilities in the workforce.
The Council on Medical Education therefore recommends that the following recommendations be adopted and the remainder of this report be filed:

1. That our American Medical Association (AMA) urge that all medical schools and graduate medical education (GME) institutions and programs create, review, and revise technical standards, concentrating on replacing “organic” standards with “functional” standards that emphasize abilities rather than limitations, and that those institutions also disseminate these standards and information on how to request accommodations for disabilities in a prominent and easily found location on their websites. (Directive to Take Action)

2. That our AMA urge all medical schools and GME institutions to a) make available to students and trainees a designated, qualified person or committee knowledgeable of the Americans with Disabilities Act and available support services and b) encourage students and trainees to avail themselves of support services. (Directive to Take Action)

3. That our AMA encourage the National Board of Medical Examiners and National Board of Osteopathic Medical Examiners to evaluate and enhance their processes for reviewing requests for accommodations from applicants with disabilities in order to reduce delays in completion of the USMLE and COMLEX, including an assessment of the experience of those applicants and the development of a transparent communication process that keeps applicants informed about the expected timeline to address their requests. (Directive to Take Action)

4. That our AMA encourage research and broad dissemination of results in the area of disabilities accommodation in the medical environment that includes: the efficacy of established accommodations; innovative accommodation models that either reduce barriers or provide educational approaches to facilitate the avoidance of barriers; impact of disabled learners and physicians on the delivery of health care to patients with disabilities; and research on the safety of established and potential accommodations for use in clinical programs and practice. (Directive to Take Action)

5. That our AMA rescind Policy D-295.929, “A Study to Evaluate Barriers to Medical Education for Trainees with Disabilities,” as having been fulfilled by this report. (Rescind HOD Policy)

Fiscal note: $2,500.
APPENDIX: RELEVANT AMA POLICY

D-90.991, “Advocacy for Physicians with Disabilities”

1. Our AMA will study and report back on eliminating stigmatization and enhancing inclusion of physicians with disabilities including but not limited to: (a) enhancing representation of physicians with disabilities within the AMA, and (b) examining support groups, education, legal resources and any other means to increase the inclusion of physicians with disabilities in the AMA.
2. Our AMA will identify medical, professional and social rehabilitation, education, vocational training and rehabilitation, aid, counseling, placement services and other services which will enable physicians with disabilities to develop their capabilities and skills to the maximum and will hasten the processes of their social and professional integration or reintegration.
3. Our AMA supports physicians and physicians-in-training education programs about legal rights related to accommodation and freedom from discrimination for physicians, patients, and employees with disabilities.


Our AMA:
(1) continues to support the dignity of the individual, human rights and the sanctity of human life, (2) reaffirms its long-standing policy that there is no basis for the denial to any human being of equal rights, privileges, and responsibilities commensurate with his or her individual capabilities and ethical character because of an individual’s sex, sexual orientation, gender, gender identity, or transgender status, race, religion, disability, ethnic origin, national origin, or age; 3) opposes any discrimination based on an individual’s sex, sexual orientation, gender identity, race, religion, disability, ethnic origin, national origin or age and any other such reprehensible policies; (4) recognizes that hate crimes pose a significant threat to the public health and social welfare of the citizens of the United States, urges expedient passage of appropriate hate crimes prevention legislation in accordance with our AMA’s policy through letters to members of Congress; and registers support for hate crimes prevention legislation, via letter, to the President of the United States.

Work Plan for Maintaining Privacy of Physician Medical Information D-180.991
The AMA shall recommend that medical staffs, managed care organizations and other credentialing and licensing bodies adopt credentialing processes that are compliant with the Americans with Disabilities Act and communicate this recommendation to all appropriate entities.


Our AMA supports equal access to all hospital facilities for physically challenged physicians as part of the Americans with Disabilities Act.

H-200.951, “Strategies for Enhancing Diversity in the Physician Workforce”

Our AMA (1) supports increased diversity across all specialties in the physician workforce in the categories of race, ethnicity, gender, sexual orientation/gender identity, socioeconomic origin and persons with disabilities; (2) commends the Institute of Medicine for its report, “In the Nation’s Compelling Interest: Ensuring Diversity in the Health Care Workforce,” and supports the concept that a racially and ethnically diverse educational experience results in better educational outcomes; and (3) encourages medical schools, health care institutions, managed care and other appropriate groups to develop policies articulating the value and importance of diversity as a goal that benefits all participants, and strategies to accomplish that goal.
9.5.4, “Civil Rights & Medical Professionals”

Opportunities in medical society activities or membership, medical education and training, employment and remuneration, academic medicine and all other aspects of professional endeavors must not be denied to any physician or medical trainee because of race, color, religion, creed, ethnic affiliation, national origin, gender or gender identity, sexual orientation, age, family status, or disability or for any other reason unrelated to character, competence, ethics, professional status, or professional activities.

AMA Principles of Medical Ethics: IV: Balance with patient safety
REFERENCES


