

**HOD ACTION: Council on Medical Education Report 1 adopted as amended and the remainder of the report filed.**

REPORT 1 OF THE COUNCIL ON MEDICAL EDUCATION (I-15)  
(Resolution 931-I-14, Resolution 312-A-15)  
Sources of Funding for Graduate Medical Education  
(Reference Committee K)

EXECUTIVE SUMMARY

Since the Balanced Budget Act of 1997, the number of Medicare-funded graduate medical education (GME) positions has been capped at 1996 levels, and there is little political will for increasing Medicare's contribution to GME. Despite the Medicare cap, the number of residents and fellows has increased since 1997, as new training programs have been created in hospitals that previously had no GME, and hospitals have been able to obtain non-Medicare funding. This growth has occurred disproportionately in subspecialty areas. A few states have been successful at expanding GME by: 1) developing GME programs in core specialty areas; 2) expanding Medicaid funding; 3) proposing new tax structures; and 4) developing partnerships with local foundations and insurance companies. State expansion has principally been in primary care, in rural and underserved areas.

The slow growth in federal funding of GME through Medicare, and the reluctance of most states to expand Medicaid GME funding, has led to an interest in the pursuit of other sources of funding. The expansion of existing residency programs or the creation of new ones through funding other than Medicare or through state contributions is a complex process. This report briefly presents examples of private and alternative funding for GME, both current and past; describes proposals for new models of funding; and presents an example of a program expansion that can serve as the groundwork for the development of model guidelines for program expansion.

Pharmaceutical industry and private foundation support of GME has principally supported subspecialty fellowships, funded supplemental educational material that may be otherwise inaccessible, or has been in the form of grants for research and community service. Pharmaceutical support has not been without criticism, and foundations are not a likely resource for ongoing, sustainable GME program expansion on a large scale. Proposals for national models of GME funding by all payers may involve a tax, either on the number of insured enrollees or on medical billings, and do not all have the goal of increasing the number of GME positions (but may have the goal of increasing primary care positions, or decreasing reliance on Medicare funding). The example of the expansion of one family medicine program in North Carolina demonstrates the complicated undertaking of developing relationships with at least three different foundations/philanthropic organizations, as well as amplifying the support by the sponsoring institution and the clinical site.

The expansion of GME positions or programs should not occur without protections for the safety of trainees or their patients. Enthusiasm for residency program creation or expansion in the face of workforce shortages and physician geographic maldistribution should not diminish the importance of ensuring a safe and productive learning and clinical environment for both residents and patients.

The AMA recommends further study of all-payer models of GME funding, and encourages the development of state, local community, insurance industry and foundation partnerships for creating successful models of program expansion.

# REPORT OF THE COUNCIL ON MEDICAL EDUCATION

CME Report 1-I-15

Subject: Sources of Funding for Graduate Medical Education  
(Resolution 931-I-14, Resolution 312-A-15)

Presented by: Darlyne Menscer, MD, Chair

Referred to: Reference Committee K  
(Hillary Johnson-Jahangir, MD, Chair)

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1 Resolution 931-I-14, introduced by the Virginia, South Carolina, West Virginia and Kentucky  
2 Delegations and referred to the Board of Trustees, asked that our American Medical Association  
3 (AMA): 1) encourage and advocate for private and alternative sources of funding for graduate  
4 medical education (GME) educational opportunities; 2) support when appropriate and advocate for  
5 additional sources of funding for private payers to support both direct and indirect costs of graduate  
6 medical education and explore funding for additional residency slots; and 3) encourage state and  
7 specialty societies to seek private and alternative sources of funding for state-specific graduate  
8 medical educational opportunities.

9  
10 Resolution 312-A-15, introduced by the International Medical Graduates Section and referred to  
11 the Board of Trustees, asked that our AMA facilitate a working group that includes the  
12 International Medical Graduates Section, Medical Student Section, Resident and Fellow Section,  
13 Section on Medical Schools, Council on Medical Education and other stakeholders, with the charge  
14 of creating model guidelines for expansion of existing residency programs, with funding support  
15 from non-federal donors.

16  
17 Due to the complexity of the issues that these two items encompass, both were referred to the  
18 Council on Medical Education by the AMA Board of Trustees for a report back to the House of  
19 Delegates. Accordingly, this report: 1) briefly summarizes current funding for GME; 2) presents  
20 examples of private and alternative funding for GME, both current and past; 3) describes proposals  
21 developed for new models of funding; and 4) presents an example of a program expansion that can  
22 serve as the groundwork for the development of model guidelines for program expansion.

## 23 24 CURRENT FUNDING FOR GRADUATE MEDICAL EDUCATION

25  
26 The federal government is the primary funder of GME. In 2012, GME funding was provided by  
27 Medicare (\$9.7 billion), Medicaid (\$3.9 billion), the Veterans Administration (\$1.4 billion) and the  
28 Health Resources and Services Administration (\$0.5 billion).<sup>1</sup> Medicaid funding can be variable; if  
29 a state includes GME funding in its budget, the federal government will provide matching funds  
30 using a formula based on state per capita income. The number of states including GME funding in  
31 their budgets has declined in recent years.<sup>2</sup> Furthermore, since passage of the Balanced Budget Act  
32 of 1997, the number of Medicare-funded GME positions has been capped at 1996 levels, and there  
33 have been proposals recommending further reduction in Medicare support for GME.<sup>3</sup>

34  
35 Despite the Medicare cap, the number of residents and fellows has increased since 1997, as new  
36 training programs have been created in hospitals that previously had no GME (Medicare will fund

1 programs in “GME-naïve” hospitals), and hospitals have been able to obtain non-Medicare  
2 funding. This growth has occurred disproportionately in subspecialty areas. Between 2003 and  
3 2012, the increase in the number of residents training in core specialty programs was 13.0 percent;  
4 for subspecialty programs, the increase was 39.9 percent.<sup>4</sup> Hospitals are able to create funding for  
5 these advanced positions, for example, through clinical income provided by faculty, billings that  
6 can be submitted by fellows themselves (in programs not accredited by the Accreditation Council  
7 for Graduate Medical Education [ACGME]), and through various endowments.<sup>5</sup>

8  
9 States have attempted and have been sometimes successful at expanding GME by: 1) developing  
10 GME programs in core specialty areas; 2) increasing Medicaid funding; 3) proposing new tax  
11 structures; and 4) developing partnerships with local foundations and insurance companies. State  
12 expansion has principally been in primary care, in rural and underserved areas. Where funding has  
13 been realized, it has been for program creation, thus covering accreditation costs, hiring support  
14 staff, purchasing new equipment and so forth. Once a hospital has residents enrolled and is  
15 receiving Medicare funds, the state program typically ceases to support the hospital (Council on  
16 Medical Education Report 7-A-14, Physician Workforce Shortage: Approaches to GME  
17 Financing).

## 18 19 PRIVATE OR ALTERNATIVE FUNDING FOR GME

### 20 21 *Examples of industry/private support*

22  
23 The Rheumatology Research Foundation, part of the American College of Rheumatology, has  
24 administered the Amgen Fellowship Training Award, supported by Amgen, Inc, since 2005.<sup>6</sup> The  
25 Foundation is the largest private funding source of rheumatology training and research programs in  
26 the United States. In 2014 there were 29 fellows whose funding was supported in part by \$50,000  
27 for one year, awarded to the training program.

28  
29 Similarly, the Neurosurgery Research and Education Foundation of the American Association of  
30 Neurological Surgeons acquires funding from several medical device companies to create \$50,000  
31 to \$75,000 fellowships for clinical training in areas such as spinal surgery, general neurosurgery  
32 and endovascular neurosurgery. In the 2012-13 academic year the program sponsored such  
33 fellowships at 20 academic medical centers.<sup>7</sup>

34  
35 GME support from private sources or pharmaceutical companies has created controversy. The  
36 American Academy of Dermatology developed a pilot program in 2006 to provide funding to  
37 dermatology programs to support 10 residents at \$60,000 per year.<sup>8</sup> The program was withdrawn  
38 after the pilot, partly because of concerns that the shortage of dermatologists was not dire enough  
39 to risk an apparent conflict of interest between education and the pharmaceutical companies  
40 involved.<sup>7</sup> Under the Physician Payments Sunshine Act, it is likely that a company will report to  
41 the Centers for Medicare & Medicaid Services that payments have been made to individual  
42 residents and fellows (equally divided) in a training program that it is supporting, even though  
43 payments were indirect and made to the institution. A private firm that assists international medical  
44 graduates (IMGs) in finding residency positions has proposed to privately fund positions, although  
45 there is no evidence to suggest this has occurred.<sup>9</sup>

46  
47 The Menninger Clinic, when based in Topeka, Kansas, created a private endowment that aided in  
48 financing its GME.<sup>10</sup> Other foundations exist to fund supplemental educational material that may  
49 be otherwise inaccessible.<sup>11</sup> The role of foundations in GME has principally been in providing  
50 grants for research and community service. Presented with a hypothetical decrease in Medicare  
51 funding for GME, over half of designated institutional officials said they would turn to private

1 philanthropy for assistance in funding resident positions.<sup>12</sup> Foundations would not be a likely  
2 resource for ongoing, sustainable GME program expansion on a large scale.

### 3 4 *Foreign governments*

5  
6 The Medical and Health Sciences program of the Saudi Arabian Cultural Mission (SACM) places  
7 students and physicians in U.S. institutions for pre- and post-graduate education. Established in  
8 2007, the program sponsors over 4,100 students and physicians enrolled in 188 affiliated  
9 universities and teaching hospitals. Participating GME programs have resident slots with a separate  
10 National Resident Matching Program (NRMP) code to indicate that they are reserved for SACM  
11 applicants. These applicants are selected using the same standards as other applicants. Once  
12 enrolled in the GME program, SACM scholarships pay for the training of the resident, thus  
13 allowing a program to expand even if the institution is over the cap.<sup>13</sup> In 2015, 17 programs  
14 participated and 21 Saudi Arabian physicians were matched into positions.<sup>14</sup>

### 15 16 PROPOSED NEW NATIONAL MODELS OF FUNDING

17  
18 Calls for systems of funding GME that include all who benefit from a well-trained physician  
19 workforce, i.e., all payers, are not new.<sup>10</sup> Given the escalating demand for residency positions as a  
20 result of the increase in the number of medical school graduates, proposals resulting in increased  
21 funding for entry-level positions would enable more physicians to complete the training necessary  
22 for licensure and to serve U.S. health care needs. Not all proposals seek to increase training  
23 positions.

24  
25 The Center for American Progress, a nonpartisan policy institute, has proposed a plan that would  
26 reduce federal spending on health care, called the Senior Protection Plan. Included in the plan is a  
27 suggestion that private insurers should support funding of GME, at \$2 per enrollee. This fee would  
28 comprise less than 5% of total GME financing. The proposal further suggested that Medicare  
29 payments towards GME should be reduced a commensurate amount; therefore, this plan would not  
30 necessarily increase the number of training positions.<sup>15</sup>

31  
32 The GME Initiative, a collaboration of health care consumers and leaders in family medicine  
33 residency training, proposes a system that addresses expanding primary care by removing the cap  
34 on primary care positions; increasing salaries for primary care residents; expanding Title VII  
35 funding for community-based training programs; providing funding directly to primary care  
36 programs, educational consortia or non-hospital community agencies; and rewarding programs that  
37 produce primary care physicians (assessed five-years post-graduation).<sup>16</sup> This funding is to come  
38 through Medicaid, Medicare and all insurers, and not be based on the percentage of Medicare  
39 patients a hospital reports or other complex formulas; however, this proposal does not describe how  
40 this funding allocation would transpire, other than stating that current GME funding would need to  
41 be reallocated to meet workforce needs, and that all payers should contribute.

42  
43 A more thoroughly described all-payer system would create GME funding by assessing  
44 government and non-government health care payers, be it Medicare, Medicaid, private insurers or  
45 individuals, at 0.6 percent per encounter.<sup>17</sup> This assessment, which would be collected through a  
46 modifier of existing billing codes, would fund the Medical Education Workforce (MEW) trust  
47 fund. As an example, total national health expenditures for 2013 from all sources were more than  
48 \$2.9 trillion. Assessing those expenditures at 0.6 percent would generate \$17.5 billion for GME,  
49 which is \$2 billion more than the GME funds contributed by Medicare, Medicaid, the Veterans  
50 Administration, and HRSA in 2012. This assessment, 0.6 percent, approximates the percentage of  
51 total national health expenditures spent on GME in 2012. Through the MEW fund, indirect and

1 direct GME dollars would be replaced with a funds-flow mechanism using fees paid for services by  
2 all payers that would provide direct compensation to physicians and institutions that actively  
3 participate in medical education. To encourage teaching of medical students, residents and fellows,  
4 educators and facilities would receive an incremental educational incentive from the MEW fund.  
5 This incentive, also based on a modifier of existing billing codes, would equate to approximately a  
6 10 percent payment per clinical encounter for those physicians engaged in teaching. A facility  
7 incentive fund would function like the indirect medical education (IME) dollars currently  
8 distributed.

9  
10 Because of the surplus generated with the MEW fund (compared to 2012 dollars), additional  
11 residency positions could be created, even though Medicare and Medicaid contributions would  
12 actually be less than before the MEW fund. This model also proposes a “tuition-for-service”  
13 program designed to fund the majority of undergraduate medical education, which would assist in  
14 creating a physician workforce that is suited to U.S. health care needs. Through eliminating  
15 graduation debt, a structured service commitment would be created to better serve communities  
16 across all medical specialties and geographies.

#### 17 18 PROGRAM EXPANSION FROM THE GROUND-UP

19  
20 An already established family medicine program at an academic medical center (AMC) has  
21 expanded the program by two slots per year into a Federally Qualified Health Center (FQHC)  
22 without receiving Medicare funding (as the AMC has reached its funding cap) or state funding.  
23 This expansion was the result of combining funding from multiple sources, including the Blue  
24 Cross Blue Shield Foundation of North Carolina for startup funds (but not salary support for the  
25 residents); a Health Resources and Services Administration (HRSA) Academic Administrative  
26 Units (AAU) grant in primary care for resident salaries; and the Duke Endowment for additional  
27 salary support for residents for three years to help establish the program. This expansion was  
28 assisted by the presence of an established strong infrastructure from the AMC, a well-established  
29 FQHC, and a specialty (family medicine) that generates substantial billing, the result of training  
30 requirements for family medicine of four to five half days of clinics. Without the various grants  
31 (but with the support of existing infrastructure), the costs per resident are estimated to be \$60,000  
32 to \$70,000 per year, including licensing, meals, etc. Future funding is uncertain, as the grants are  
33 time-limited. A grant from the Golden Leaf Foundation will allow the program to expand to three  
34 residents per year in the 2016 match. The program director is looking to the University of North  
35 Carolina Healthcare System, the North Carolina AHEC (Area Health Education Center) and the  
36 state legislature for additional funding.<sup>18</sup>

37  
38 Based on this experience, the following may serve as some key best practices as well as  
39 groundwork for development of model guidelines for GME program expansion and creation.

#### 40 41 *Suggested first steps for program expansion*<sup>18</sup>

- 42
- 43 • State money may be available. Examine how state Medicaid funds are allocated and  
44 whether they support GME, and if so, how the allocation is determined. In states with their  
45 own Affordable Care Act Exchanges, there may be an option to use a tax on the exchange  
46 to help pay for local GME.
  - 47 • Perform an exhaustive search of all statewide philanthropic organizations and insurance  
48 company foundations that support economic development or health care, including those  
49 that address health disparities or other social determinants of health. Make exploratory  
50 contact with those groups to discuss program expansion rather than waiting for a Request  
51 for Proposals.

- 1 • Consider partnering with a large local employer that may see a pipeline of needed primary  
2 care physicians as being in their own interest.
- 3 • Work with large local hospitals or healthcare systems to understand their dependency on an  
4 adequate pipeline of physicians to encourage their participation in support of GME.

5  
6 *Suggested first steps for new program development*<sup>19</sup>

- 7  
8 • Feasibility Study: An independent feasibility study showing the need for GME, the  
9 capacity in the region among one or more hospitals working in partnership to develop and  
10 sustain high-quality residency training programs (that could achieve full accreditation from  
11 the ACGME), and the financial commitment required from the region to invest “first  
12 dollars” potentially matched by state funds.
- 13 • Business Plan: A detailed business plan for expanding medical education showing the  
14 governance structure for a consortium among one or more hospitals, community health  
15 centers, and other partners; the number of residents to be trained in one or more programs;  
16 a staffing and financial plan for long term support of quality residency training programs;  
17 and an economic impact statement.

18  
19 ETHICAL AND QUALITY CONCERNS AND AMA POLICY

20  
21 Concerns about private support of GME have led to the development of principles by the ACGME,  
22 which stipulate in part that: 1) sponsoring institutions ensure that residents, fellows, and programs  
23 not be identified publically by their funding sources; and 2) sponsoring institutions maintain  
24 policies that ensure non-preferential treatment of residents and fellows in the learning environment  
25 based upon sources of funding for their positions.<sup>20</sup> Typical policies at GME institutions state that  
26 the private funder does not select the trainee to receive the funds, but that the selection is made by  
27 the department, division, or program. In addition, the department chair may be named the recipient,  
28 who then may be reported as accepting funds under the Sunshine Act. The ACGME has more  
29 recently stressed that a reduction in federal support for GME may drive programs to deliberately  
30 seek out industry support.<sup>21</sup>

31  
32 Similarly, the AMA has policy in its *Code of Medical Ethics*, Opinion 8.061 Gifts to Physicians  
33 from Industry, stating that “Academic institutions and residency and fellowship programs may  
34 accept special funding on behalf of trainees to support medical students’, residents’, and fellows’  
35 participation in professional meetings, including educational meetings, provided the program  
36 identifies recipients based on independent institutional criteria; and funds are distributed to  
37 recipients without specific attribution to sponsors.”<sup>22</sup> AMA also has policy regarding “Residency  
38 Positions for Sale,” expressing that selection of residents should be based on academic and  
39 personal qualifications, and that monetary considerations should not compromise the selection  
40 process. (Policy H-310.983)

41  
42 Private funding of GME programs could theoretically be taken on by a local business or medical  
43 group.<sup>23</sup> Care would need to be taken to prevent the effect of a restrictive covenant, in that the  
44 funder would require the graduating resident to work for the funder. The ACGME prohibits  
45 training programs or institutions to “require a resident/fellow to sign a non-competition guarantee  
46 or restrictive covenant.”<sup>24</sup>

47  
48 As programs are expanded or created, ACGME requirements should protect residents and patients  
49 from a training situation in which there are not enough patients to guarantee educational quality,  
50 insufficient clinic space to practice safely, or lack of appropriate supervision to confirm

1 competency, as well as protecting residents from exploitation. Enthusiasm for residency program  
2 creation or expansion in the face of workforce shortages and physician geographic maldistribution  
3 should not diminish the importance of ensuring a safe and productive learning and care  
4 environment for both residents and patients. Not all physicians train in ACGME-accredited  
5 programs; some non-ACGME-accredited fellowships may be created with expectations of work  
6 productivity and revenue generation that exceed what may be safely accomplished.

7  
8 SUMMARY AND RECOMMENDATIONS

9  
10 For the most part, private and alternative funding of GME, so far, has been “around the edges.”  
11 Evidence of full-scale funding of a GME program by foundations or private industry was not  
12 uncovered. Funding of educational opportunities or of some portion of a program complement is  
13 the more typical route. Foundations have worked together with states to expand GME. The  
14 successful program expansion in North Carolina depended upon the contributions of at least three  
15 different foundations/philanthropic organizations, as well as support by the sponsoring institution  
16 and the clinical site.

17  
18 For communities, health systems and other entities planning to start or expand their GME  
19 activities, this report outlines some steps to consider. These steps will allow planners of new GME  
20 programs to consider all currently known options for such funding. Which of these will become a  
21 successful financial resource will largely depend on the profile of the local community, the goals of  
22 the proposed GME programs and the needs they will meet. This report also encourages sharing of  
23 successful, innovative funding proposals for GME. This will allow communities, health systems,  
24 training programs and trainees in need of GME slots to benefit from the experience of others.

25  
26 Proposals to fund GME by all payers could lead to an increase in the number of physicians in  
27 GME, and could also alter the specialty and geographic distribution of physicians to be more  
28 aligned with the nation’s health care needs. Given the scrutiny Medicare funding of GME has  
29 received of late, there may now be a greater prospect of developing a new payment system that  
30 could fund and shape a more appropriate physician workforce. Whether private payers, both  
31 insurers and individuals, can be enjoined to participate in such a system is open to debate, and  
32 would likely require legislation. Working towards such a transformation will necessitate a coalition  
33 of stakeholders willing to persevere as well as compromise.

34  
35 The Council on Medical Education therefore recommends that the following recommendations be  
36 adopted in lieu of Resolution 931-I-14 and Resolution 312-A-15 and that the remainder of the  
37 report be filed.

- 38  
39 1. That our American Medical Association (AMA) reaffirm Policy D-305.967 (8), The  
40 Preservation, Stability and Expansion of Full Funding for Graduate Medical Education, which  
41 advocates for continued and expanded contribution by all payers for health care (including the  
42 federal government, the states, and local and private sources) to fund both the direct and  
43 indirect costs of graduate medical education. (Reaffirm HOD Policy)  
44  
45 2. That our AMA explore various models of all-payer funding for GME, especially as the  
46 Institute of Medicine (now a program unit of the National Academy of Medicine) did not  
47 examine those options in its 2014 report on GME governance and financing. (Directive to  
48 Take Action)  
49  
50 3. That our AMA encourage all funders of GME to adhere to the Accreditation Council for  
51 Graduate Medical Education’s requirements on restrictive covenants and its principles guiding

- 1 the relationship between GME, industry and other funding sources, as well as the AMA's  
2 Opinion 8.061, and other AMA policy that protects residents and fellows from exploitation,  
3 including physicians training in non-ACGME-accredited programs. (New HOD Policy)  
4
- 5 4. That our AMA encourage organizations with successful existing models to publicize and  
6 share strategies, outcomes and costs. (Directive to Take Action)  
7
- 8 5. That our AMA encourage insurance payers and foundations to enter into partnerships with  
9 state and local agencies as well as academic medical centers and community hospitals seeking  
10 to expand GME. (Directive to Take Action)  
11
- 12 6. That our AMA encourage entities planning to expand or start GME programs to develop a  
13 clear statement of the benefits of their GME activities to facilitate potential funding from  
14 appropriate sources given the goals of their programs. (New HOD Policy)

Fiscal note: \$5,000.

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