HOD ACTION: Council on Medical Education Report 7 adopted and the remainder of the report filed.

REPORT OF THE COUNCIL ON MEDICAL EDUCATION

CME Report 7-A-08

Subject:	Diversity in the Physician Workforce and Access to Care Richard J.D. Pan, MD, MPH, Chair						
Presented by:							
Referred to:	Reference Committee C						
	(David M. Lichtman, MD, Chair)						
	edical Education Report 1 (I-06) described the status of initiatives to enhance e physician workforce. The report's recommendations, as amended, included						
	ur American Medical Association identify models and strategies at the nationation egional levels and report on:						
•	The status of efforts to assure adequate funding for diversity initiatives;						
•	The current status of underservice and access to care in the US (regionally a population); and						
•	The recruitment and retention of physicians to practice in underserved areas to work with underserved populations (Recommendation #6).						
interna	ur AMA collaborate with other organizations to study the contribution of ational medical graduates to the overall diversity and distribution of the US metorce (Recommendation #7).						
workforce; and	nmarizes: (1) current data about diversity and distribution in the physician (2) the status and impact of initiatives to enhance physician workforce diverserved areas.						
DIVERSITY A	AND DISTRIBUTION IN THE PHYSICIAN WORKFORCE						
Medical Schoo	ol and Residency Training						
students in MI Medical Educa 2006-2007 are and residency percent of enter the percent of	d, data on the racial and ethnic composition of first-year medical students and a D-granting medical schools, and of residents in Accreditation Council for Grad ation-accredited and combined residency programs for 2004-2005, 2005-2006, included in the Appendix. In general, minority representation in medical scho training has not changed significantly over the past several years. For example ering medical students who self-classify as African American has been 7.1-7.3 Hispanic students has been 7.4-7.5%; the percent of Asian students has been 2 bercent of white, non-Hispanic students has been 62-63%.						
students comir	d economic diversity among medical students. The percent of new medical ag from families in the top quintile of family income increased from about 519 in 2005, and the percent of students from families in the lowest quintile has not						

1 2 3 4 5 6 7 8 9	During academic years 2004-2005 to 2006-2007, in Accreditation Council for Graduate Medical Education (ACGME)-accredited and combined residency training programs, the percent of African American resident physicians ranged from 5.2-5.6% and the percent of Hispanic residents ranged from 6.2-6.7%. During 2006-2007, about 27% of all residents were international medical graduates (IMGs). ² Data from the AMA Physician Masterfile for resident physicians enrolled in graduate medical education between 1999 and 2005 allows the comparison of the racial/ethnic composition of US medical graduates (USMGs) and IMGs: Black (USMGs, 5.8%; IMGs, 4.8%), Asian (USMGs, 16.4%; IMGs, 44.7%), and Hispanic (USMGs, 5.0%; IMGs, 8.5%). ³
10	Physicians in Practice
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12 13 14	The total number of US physicians involved in patient care in 2006 was 723,118. Of these, 185,045 (25.6%) were IMGs. ⁴
15	Race/ethnicity is known for about 78% of the total physicians in the AMA Physician Masterfile.
16	In 2006, 71.4% of these physicians were white, 15.8% were Asian, 6.4% were Hispanic, and
17	4.5% were Black. ⁴
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19	In 2006, the physician to population ratio (number of total physicians per 100,000 population) in
20	the US was 303. This average conceals a large variation across states. There were fewer than
21	250 physicians per 100,000 population in 12 states (Alabama, Arizona, Arkansas, Georgia, Idaho,
22	Indiana, Iowa, Mississippi, Nevada, Oklahoma, Texas, and Wyoming.) In contrast, there were
23	more than 350 physicians per 100,000 in 8 states (Connecticut, Hawaii, Maryland, Massachusetts,
24	New York, Rhode Island, Vermont) and the District of Columbia. ⁴
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26	There also is considerable intra-state variation in physician availability. There are medically
27	underserved areas even in states with a relatively high physician to population ratio. ⁵
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29	STATUS OF INITIATIVES TO ENHANCE WORKFORCE DIVERSITY AND ENHANCE
30	ACCESS TO CARE IN UNDERSERVED AREAS
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32	This report discusses three general mechanisms that are being used to enhance workforce
33	diversity and access to care in underserved areas:
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35 26	 (1) pipeline programs to prepare a diverse pool of applicants to medical school; (2) funding any groups that facilitate access to medical advection for diverse perpendicular advection.
36 37	(2) funding programs that facilitate access to medical education for diverse populations and promote practice in underserved areas; and
37	(3) retention programs.
38 39	(5) retention programs.
40	These categories are not mutually exclusive, as pipeline programs can be funded from the same
40 41	general sources as access to care programs, and retention programs may involve financial
42	incentives. Since a link between workforce diversity and access to care for underserved
43	populations has been made both conceptually and empirically, ⁶⁻⁸ this report considers the issues
44	simultaneously.
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46	Developing the Pipeline to Medical School
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48	There are many examples of programs that have been successful in preparing minority and
49	economically-disadvantaged high school and college students for future education and health
50	careers. ⁹⁻¹² These programs take many forms, from summer enrichment or research programs for
51	high school students that encourage college attendance ⁹ to postbaccalaureate re-applicant

programs for individuals who were not initially successful in obtaining admission to medical
 school.¹¹ There also is a combined BA-MD model, which pairs a medical school and a college in
 an underserved area in Texas.¹³

Funding Programs for Facilitating Entry to Medicine for Diverse Populations and Practice in Underserved Areas

Funding programs, in general, fall into two general categories: programs that support educational initiatives and programs that support individuals. Many of the programs describe above to enhance medical school diversity have been supported through federal funding programs.

The Special Health Career Opportunity Grant Program, first implemented in 1972, and its 12 successor, the Health Careers Opportunity Program (HCOP),¹⁴ have provided funding to medical 13 schools and other health professions schools and public or private nonprofit health or educational 14 15 entities (such as colleges/universities, junior colleges, state or local government health or education agencies, and health or education associations/organizations).¹⁵ The goal of HCOP 16 17 funding has been to recruit individuals from disadvantaged backgrounds for health professions 18 training and assist them to enter training programs; provide counseling, mentoring and other services; and provide preliminary education and health research training.¹⁵ As of the most recent 19 20 HCOP grant cycle (FY2008), only four awards are anticipated, with a total program funding of about \$3.7 million, down from about \$24 million in 1986.^{16,17} 21 22

Title VII of the Public Health Services Act authorizes discretionary funding for a variety of programs to facilitate the participation of underrepresented minorities in medicine.⁷ These include the HCOP grant program described above, Centers of Excellence for medical and other health professions schools with underrepresented minority enrollments above the national average, and scholarships for disadvantaged students.⁷

Title VII also has supported medical school and residency training in primary care disciplines. These programs are aimed at encouraging physicians to practice in underserved areas.¹⁸ The federal government, through the Health Resources and Services Administration, also has supported the Area Health Education Centers (AHECs). The AHEC program was started in 1972 with the goal of improving the supply, distribution, and retention of primary care physicians and others in underserved areas.¹⁹

36 The National Health Service Corps (NHSC) began in the early 1970s to place clinicians in 37 underserved areas. Funding is through scholarship and loan repayment options. In its 35th year 38 (2007), the NHSC had over 4600 clinicians serving in rural and urban underserved areas.²⁰ In 39 addition, a number of states and regions sponsor scholarship and loan repayment programs with 40 the same goal. While there are centralized sources of information on federal and state programs, 41 there is no central listing of programs sponsored by towns/cities, health systems, and other local 42 funders. This makes it difficult for trainees to identify the range of funding sources that may be 43 appropriate to their career plans.

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As with HCOP, funding for some of these federal programs has decreased. In 2006, the
 Title VII Primary Care Medicine and Dentistry funding program was reduced more than 50%²¹
 and further cuts are in Title VII programs threatened yearly. AHECs are now mainly state
 funded.²²

Other Programs to Attract Physicians to Underserved Areas

In addition to funding, there are additional government programs aimed at enhancing access to care in underserved areas. The most direct is the J-1 visa waiver program. The largest program of this type, known as the Conrad 30, provides 30 slots per year to requesting states. This program allows non-citizen physicians who are in the US on a J-1 visa to remain if they work in an underserved area for three years.²³ There have been recent concerns expressed because the number of physicians initially entering the US on J-1 visas is decreasing.²³

10 PROGRAM IMPACT

12 While the diversity of the population of physicians-in-training and in-practice is far from optimal, 13 some of the programs described above have had positive results. Individual pipeline programs 14 often report success in encouraging high school and college students to pursue further education and careers in the health professions, including medicine.^{9,10,13} Data from the mid-1980s 15 indicated that HCOP programs did enhance minority representation in medicine.¹⁴ The presence 16 17 of international medical graduates also contributes to the general diversity of the physician 18 workforce. 19

20 Programs to enhance physician distribution to underserved areas also have had positive effects. 21 There also are data indicating that Title VII programs increased the family physician workforce in rural and low income communities.¹⁸ Loan repayment programs from the NHSC and the states 22 have a high completion rate (over 90% for the NHSC) and tend to retain the majority of their 23 24 physicians in underserved areas.^{20,24} For example, a study done in 2000 found that 52% of NHSC clinicians were serving the underserved in some capacity 15 years after completion of their 25 service commitment.²⁰ While international medical graduates are less likely than US graduates to 26 27 practice in large and small rural areas, those IMGs that are present are more likely to be practicing in a designated Health Professions Shortage Area (HPSA).²⁵ IMGs have been shown 28 29 to be critical in staffing the small rural Critical Access Hospitals.²³ The decreased use of the J-1 30 visa, however, is being associated with increased difficulties recruiting IMGs to practice in rural, 31 underserved areas.²³

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AMERICAN MEDICAL ASSOCIATION POLICY

35 Policy of our AMA supports increased diversity across all specialties in the physician workforce 36 in the categories of race, ethnicity, gender, sexual orientation/gender identity, socioecomonic 37 origin and persons with disabilities (Policy H-200.951, AMA Policy Database).

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Policy also supports current programs to alleviate the maldistribution of physicians in the US 40 (Policy H-200.954), through such things as incentive programs, including loan repayment, to 41 encourage practice in underserved areas (Policy H-200.978). The scholarship and loan repayment 42 programs of the NHSC should be specifically supported (Policy H-200.984). 43

44 SUMMARY

46 While the variety of programs to increase physician workforce diversity and expand access to 47 care in rural areas have had some effect, results are far from optimal. The positive achievements 48 are themselves threatened, since funding for a number of the programs described above has been 49 eliminated, reduced or remains in jeopardy.

In addition, there are multiple barriers to achieving the dual goals of workforce diversity and
 access to care for the underserved.. At the 2008 Interim Meeting, the Council on Medical
 Education will summarize these barriers as part of a report on the success of incentive programs
 aimed at recruiting and retaining physicians in underserved areas.

6 RECOMMENDATIONS

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Therefore, the Council on Medical Education recommends that the following be adopted and that the remainder of this report be filed.

- 111.That American Medical Association Policies H-200.951, "Strategies for Enhancing12Diversity in the Physician Workforce," and H-200.054, "US Physician Shortage" be13reaffirmed. (Reaffirm HOD Policy)
- 152.That our AMA continue to advocate for programs that promote diversity in the US16medical workforce, such as pipeline programs to medical schools. (Directive to Take17Action)
- 193.That our AMA continue to advocate for adequate funding for federal and state programs20that promote interest in practice in underserved areas, such as those under Title VII of the21Public Health Service Act, scholarship and loan repayment programs under the National22Health Services Corps and state programs, state Area Health Education Centers, and23Conrad 30, and also encourage the development of a centralized database of scholarship24and loan repayment programs. (Directive to Take Action)
- 264.That our AMA continue to study the factors that support and those that act against the27choice to practice in an underserved area, and report the findings and solutions at the282008 Interim Meeting. (Directive to Take Action)

Fiscal Note: \$7,500 for staff time to research the indicated issues and to advocate as directed.

Complete references for this report are available from the Medical Education Group.

APPENDIX

Number of Students									
Academic	African	Native	Asian	Native	White	Hispanic*	Foreign	Total	
Year	American	American		Hawaiian					
2004-	1,276	178	3,491	36	10,969	1,297	230	17,477	
2005									
2005-	1,260	173	3730	42	10,919	1320	263	17,707	
2005									
2006-	1,294	148	3,666	61	11,150	1351	303	17,973	
2007									

Table 1: Racial/Ethnic Composition of First-Year Students in MD-Granting Medical Schools

Source: Association of American Medical Colleges (AAMC Databook, 2007, Table B4) * Hispanic alone or in any combination, of any race

Table 2: Racial/Ethnic Composition of All Students in MD-Granting Medical Schools

Academic	African	Native	Asian	Native	White	Hispanic*	Foreign	Total
Year	American	American		Hawaiian				
2004-	4,947	578	13,650	161	42,302	4,318	838	66,794
2005								
2005-	5,023	628	14,197	161	43,125	4,796	934	68,864
2005								
2006-	4,993	608	14,457	182	43,620	4,993	1,015	69,868
2007								

Number of Students

Source: Association of American Medical Colleges (AAMC Databook, 2007, Table)

* Hispanic alone or in any combination, of any race

Table 3: Racial/Ethnic Composition of Resident Physicians in ACGME-Accredited and Combined Residency Programs

Number of Residents Academic African Native Asian Native White Other/ Total									
			Asian		vv IIIte		Total		
Year	American	American		Hawaiian		Unknown			
2004-	5,530	258	25,182	643	55,202	14,676	101,291		
2005*									
2005-	5,371	248	25,354	753	54,351	17,029	103,106		
2006**									
2006-	5,855	211	27,246	568	57,535	13,464	104,879		
2007†									

Number of Residents

Source: AMA/AAMC GME Track as published in the Journal of the American Medical Association

* Hispanic origin = 6,578

** Hispanic origin = 6,393

† Hispanic origin = 7,075