

HIGHER EDUCATION POLICY COMMISSION



HEALTH SCIENCES AND RURAL HEALTH REPORT CARD 2005

West Virginia Higher Education Policy Commission

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Highlights in 2005

- Almost 39% of West Virginia's recent medical school graduates are staying in the state after completing residency training.
- Retention of state medical school graduates who complete residency training in West Virginia is even higher – 79% in primary care fields such as family practice.
- In the past 9 years, the greatest change has been in retention of medical graduates in primary care fields. Their numbers have increased from 168 to 293, a gain of 74%.
- Compared to medicine, there is greater fluctuation in the retention of dental and pharmacy graduates. This year, 22 (51%) of West Virginia's dental graduates are staying in the state, compared to 27 (73%) the previous year. The retention of pharmacy graduates increased to 48 (67%), compared to 35 (54%) the previous year.
- The Health Sciences & Technology Academy (HSTA), a health career pathway program, is active in 26 counties. The college-going rate for HSTA graduates is 94%. The majority of HSTA graduates are still in college; 55 have gone on to graduate or professional school; and ten are currently in medical school.
- The Rural Health Education Partnerships (RHEP) completed mergers and consolidations that resulted in 8 training consortia, compared to 13 in 1995. These changes are designed to achieve greater efficiencies while maintaining program quality.
- This year RHEP provided 70,513 community service contacts, including health fairs, health screenings, tobacco awareness, immunization clinics, and oral hygiene. In addition, faculty and students provided services to Hurricane Katrina evacuees at Camp Dawson.
- This year RHEP dental and dental hygiene students provided 11,769 clinical procedures and 290 outreach activities. RHEP dental sites provided \$2.6 million in uncompensated care.
- The CARDIAC program expanded to all 55 counties. Since 1998, the program has screened over 30,000 children and some parents. New this year is CARDIAC Two, a screening program for second graders conducted in partnership with the WV Department of Education to meet a legislative mandate of the Healthy Lifestyles Act of 2005.
- In 1991 West Virginia began developing rural training sites for health professions students. Since then, 738 graduates in health fields, including 187 physicians, began and are continuing to practice in rural West Virginia. Other fields include nurse practitioners, physician assistants, dentists, and pharmacists.
- State scholarships and loan repayment are helping to recruit rural providers – 40% of the physicians, 45% of the nurse practitioners, and 45% of the physician assistants recruited since 1991 are currently practicing in rural West Virginia.
- In the past 7 years, the number of physicians who participated in the RHEP program and are now in rural practice increased from 88 to 187, an increase of 113%, or an average annual rate of 13.4%.

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Medical School Enrollment

1

West Virginia University Health Sciences Center

	2000-01	2001-02	2002-03	2003-04	2004-05
Applicants					
In-State	284	241	223	228	189
Out-of-State	550	546	513	617	865
Total	834	787	736	845	1,054
Acceptances Issued					
In-State	120	104	108	116	90
Out-of-State	6	15	22	48	73
Total	126	119	130	164	163
First Year New Enrollment					
In-State	87	81	87	82	66
Out-of-State	3	9	12	28	35
Total	90	90	99	110	101
<i>Entering Class Data</i>					
Mean GPA	3.6	3.7	3.7	3.7	3.7
Mean MCAT Scores					
Biology/Biological Sciences	9.2	9.5	8.8	9.4	9.2
Physics/Physical Sciences	8.6	9.2	8.9	8.7	8.7
Reading/Verbal Reasoning	8.9	9.0	9.4	9.1	8.9
Median Writing Sample	O	O	N	O	NA
Total Medical Students	358	349	375	376	391

COMMENTARY

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test scores on the multiple-choice sections are on a scale of 1-15 and, on the Writing Sample, a scale of J-T. The national averages for students entering allopathic medical schools in 2004-05 were:

Biological Science: 10.3
 Physical Science: 9.9
 Verbal Reasoning: 9.7
 Writing Sample: O

The national mean GPA was 3.62

Source: Association of American Medical Colleges.



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Marshall University School of Medicine

	2000-01	2001-02	2002-03	2003-04	2004-05
Applicants					
In-State	259	228	197	209	180
Out-of-State	634	558	499	502	539
Total	893	786	696	711	719
Acceptances Issued					
In-State	70	86	93	85	80
Out-of-State	2	9	8	11	16
Total	72	95	101	96	96
First Year New Enrollment					
In-State	46	45	45	47	43
Out-of-State	2	3	3	6	9
Total	48	48	48	53	52
<i>Entering Class Data</i>					
Mean GPA	3.5	3.5	3.6	3.5	3.5
Mean MCAT Scores					
Biology/Biological Sciences	9.2	8.8	9.2	8.9	9.2
Physics/Physical Sciences	8.4	8.6	8.4	8.7	8.4
Reading/Verbal Reasoning	9.2	9.5	8.9	8.9	9.2
Median Writing Sample	P	P	P	O	O
Total Medical Students	207	198	194	199	200

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test scores on the multiple-choice sections are on a scale of 1-15 and, on the Writing Sample, a scale of J-T. The national averages for students entering allopathic medical schools in 2004-05 were:

Biological Science: 10.3
 Physical Science: 9.9
 Verbal Reasoning: 9.7
 Writing Sample: O

The national mean GPA was 3.62

Source: Association of American Medical Colleges.



West Virginia School of Osteopathic Medicine

	2000-01	2001-02	2002-03	2003-04	2004-05
Applicants					
In-State	184	171	146	156	138
Out-of-State	1,369	1,237	1,226	1,276	1,362
Total	1,553	1,408	1,372	1,432	1,500
Acceptances Issued					
In-State	69	68	66	79	71
Out-of-State	86	81	113	188	237
Total	155	149	179	267	308
First Year New Enrollment					
In-State	53	54	51	50	53
Out-of-State	24	26	30	53	52
Total	77	80	81	103	105
<i>Entering Class Data</i>					
Mean GPA	3.5	3.5	3.5	3.4	3.4
Mean MCAT Scores					
Biology/Biological Sciences	7.4	7.4	7.4	7.5	8.1
Physics/Physical Sciences	7.2	7.0	6.8	7.0	6.9
Reading/Verbal Reasoning	7.9	7.9	7.8	7.8	7.4
Median Writing Sample	N/A	N/A	N/A	N/A	N/A
Total Medical Students	285	296	306	336	363

COMMENTARY

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test scores on the multiple-choice sections are on a scale of 1-15 and, on the Writing Sample, a scale of J-T. The national averages for students entering osteopathic medical schools in 2004-05 were:

Biological Science: 8.5
 Physical Science: 7.9
 Verbal Reasoning: 8.2
 Writing Sample: O

The national mean GPA was 3.43

Source: The American Association of Colleges of Osteopathic Medicine.



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Number of Examinees/Number Passing US Medical Licensing Exam, Step 3

	2000-01	2001-02	2002-03	2003-04	2004-05
West Virginia University	83/81 (98%)	65/65 (100%)	69/65 (94%)	71/68 (96%)	69/68 (99%)
Marshall University	43/40 (93%)	50/47 (94%)	39/33 (85%)	46/43 (93%)	41/35 (85%)

All data are for first-time test takers. Data for MD students are based on the US Medical Licensing Exam (USMLE), Step 3. Data for MD students become available two years after graduation, i.e., results for 2002 graduates are shown in 2004-05. The national average for this cohort was 96%.

Number of Examinees/Number Passing COMLEX-Level 3

	2000-01	2001-02	2002-03	2003-04	2004-05
WV School of Osteopathic Medicine	59/54 (92%)	56/55 (98%)	51/50 (98%)	73/67 (92%)	72/70 (97%)

All data are for first-time test takers. Data for DO students are based on the Comprehensive Osteopathic Medicine Licensing Examination (COMLEX), Level 3. Results are for 2005 graduates. The national average for this cohort was 89%.

Medical School Graduates Choosing Primary Care Residencies*

	2000-01	2001-02	2002-03	2003-04	2004-05**
West Virginia University	54 (58%)	39 (48%)	46 (48%)	32 (46%)	46 (61%)
Marshall University	34 (67%)	34 (72%)	32 (68%)	29 (73%)	29 (66%)
WV School of Osteopathic Medicine	39 (64%)	40 (63%)	48 (67%)	40 (56%)	N/A***
TOTAL	127	106	126	101	

*Primary care includes family medicine, internal medicine, pediatrics, internal medicine/pediatrics, and obstetrics/gynecology.

**In 2005, the national average for choice of primary care residencies was 48.7% for all allopathic graduates.

***Osteopathic students enter a one-year rotating internship after graduation. Thus, their test data lag one year behind the allopathic graduates. In 2004, 40 (56%) of WVSOM 2003 graduates chose primary care residencies. The national average is not available.



Medical School Graduates in West Virginia (MD and DO), 1995-2000

Institutions	Total Number of Graduates	Graduates with Completed Training			
		Total Number	Number in Practice in WV	Number in Primary Care in WV*	Number in Practice in Non-Urban Areas in WV **
West Virginia University	490	458	187 (40.8%)	115 (25.1%)	30 (6.5%)
Marshall University	281	270	102 (37.7%)	71 (26.2%)	25 (9.2%)
WV School of Osteopathic Medicine	321	321	118 (36.7%)	107 (33.3%)	64 (19.9%)
TOTAL	1,092	1,049	407 (38.7%)	293 (27.9%)	119 (11.3%)

Note: Excludes SREB contract students at WVSOM who have a contractual obligation to return to their home state following graduation.

*Primary Care is defined as family medicine, internal medicine, pediatrics, internal medicine/pediatrics, and obstetrics/gynecology.

**Non-urban areas exclude graduates practicing in: Beckley, Charleston (including South Charleston, Dunbar, Nitro, Institute, etc.), Clarksburg, Fairmont, Huntington (including Barboursville), Hurricane, Martinsburg, Morgantown (including Star City and Westover), Parkersburg (including Vienna), Weirton, and Wheeling.

COMMENTARY

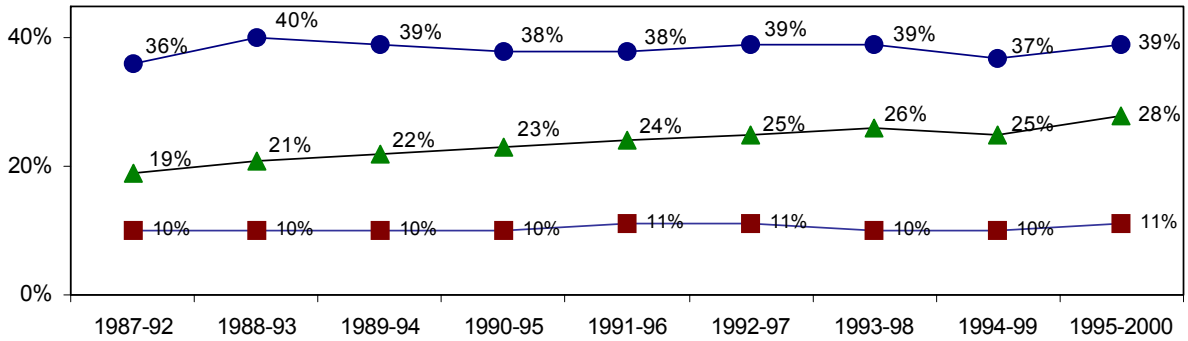
A total of 1,049 students who graduated from the state's three medical schools between 1995 and 2000 have completed residency training. Of these graduates, 39% are practicing in West Virginia. Over 11% are practicing in rural areas. In tracking the retention of graduates, this report factors in the additional 3 to 5 years of residency training that physicians complete in their specialty before beginning practice. The table, charts, and maps on pages 5-9 present data on graduates from 1995-2000.

COMMENTARY

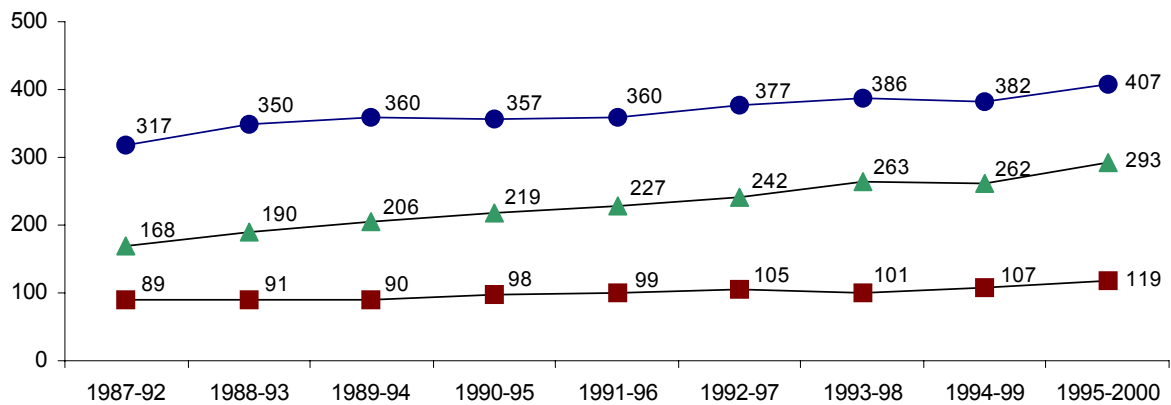


West Virginia Medical School Graduates

Percent of Total Practicing in WV



Total Number Practicing in WV



● Practicing in WV All Specialties
 ▲ Practicing in WV Primary Care
 ■ Practicing in WV Non-Urban Areas

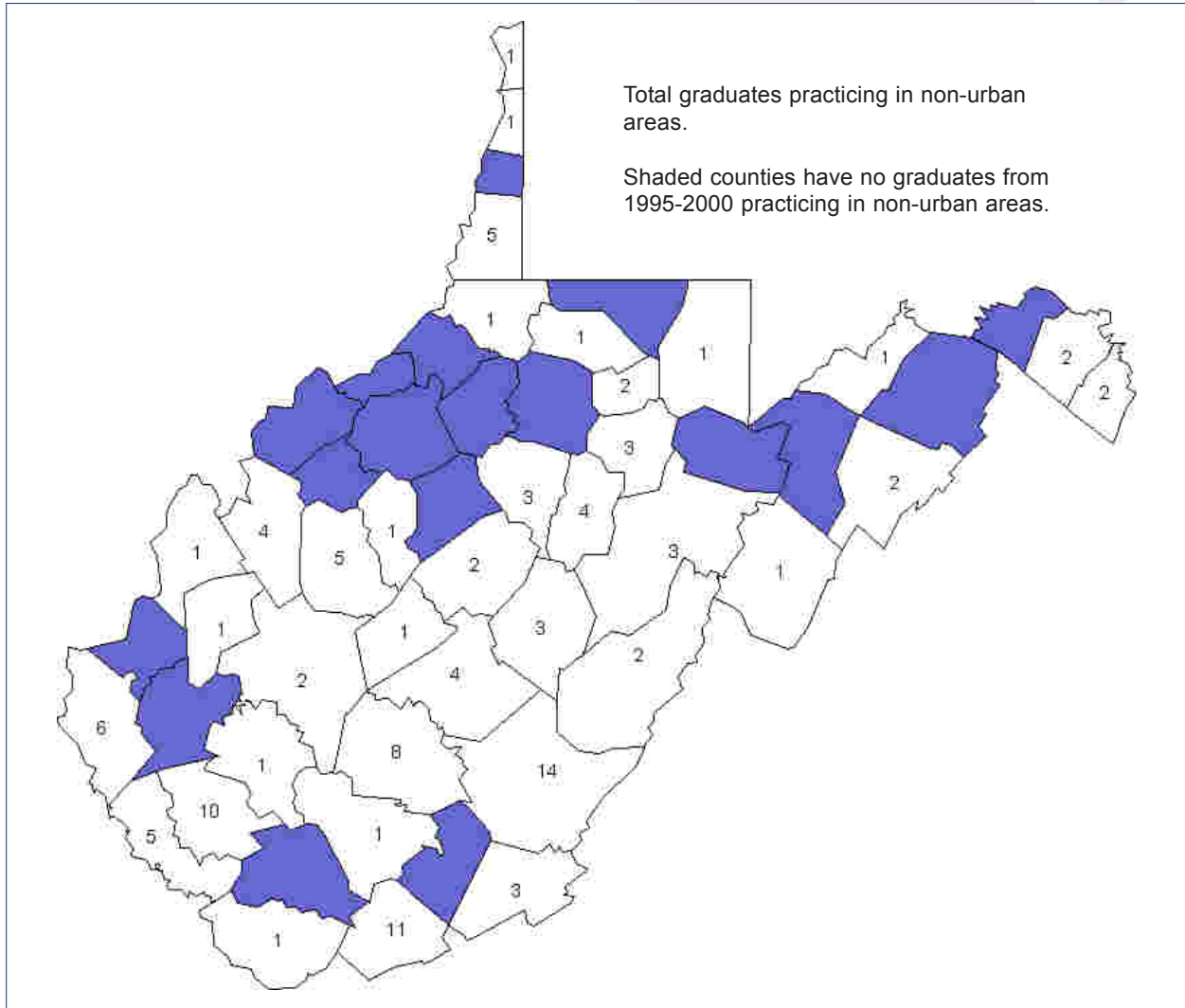
COMMENTARY

Retention is tracked annually for a 6-year cohort of medical school graduates who have completed residency training. The greatest change has been in retention of graduates in primary care fields. In the past 9 years, their numbers have increased by 74%, from 168 to 293. At the same time, the percentage of graduates retained in primary care increased from 19% to 28% of the total medical school graduates retained.

COMMENTARY



WV Medical Graduates, 1995-2000, in Non-Urban Areas



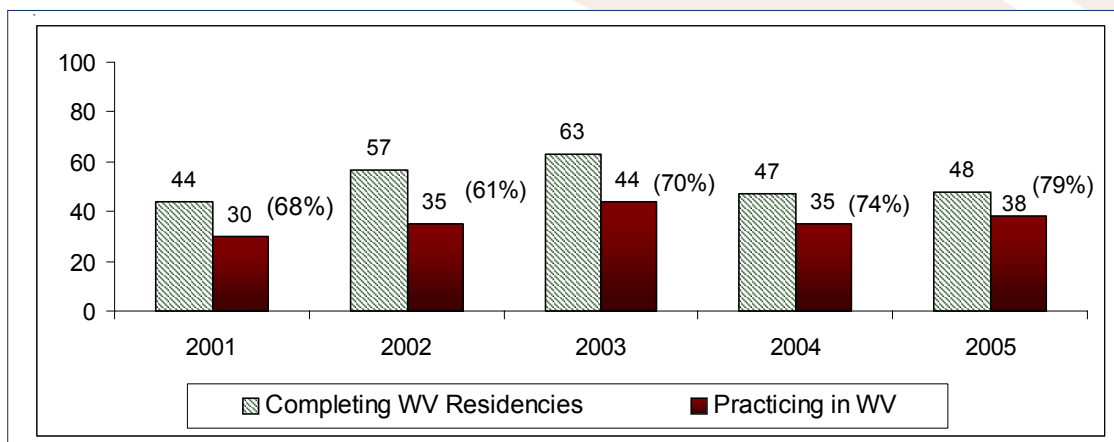
COMMENTARY

The map excludes graduates practicing in Beckley, Charleston (including South Charleston, Dunbar, Nitro, Institute, etc.), Clarksburg, Fairmont, Huntington (including Barboursville), Hurricane, Martinsburg, Morgantown (including Star City and Westover), Parkersburg (including Vienna), Weirton, and Wheeling.

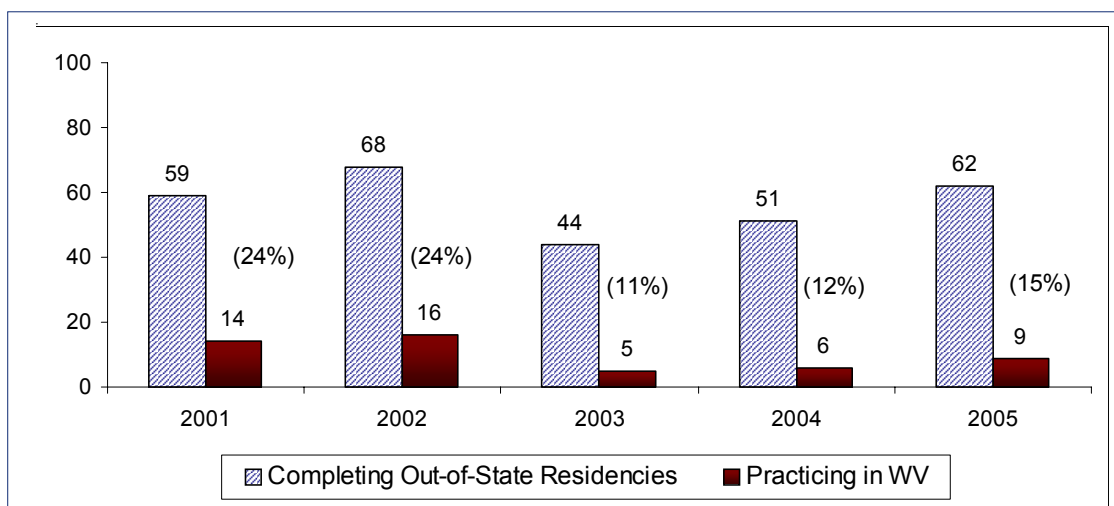
COMMENTARY



WV Medical Graduates Completing WV Primary Care Residencies



WV Medical Graduates Completing Out-Of-State Primary Care Residencies



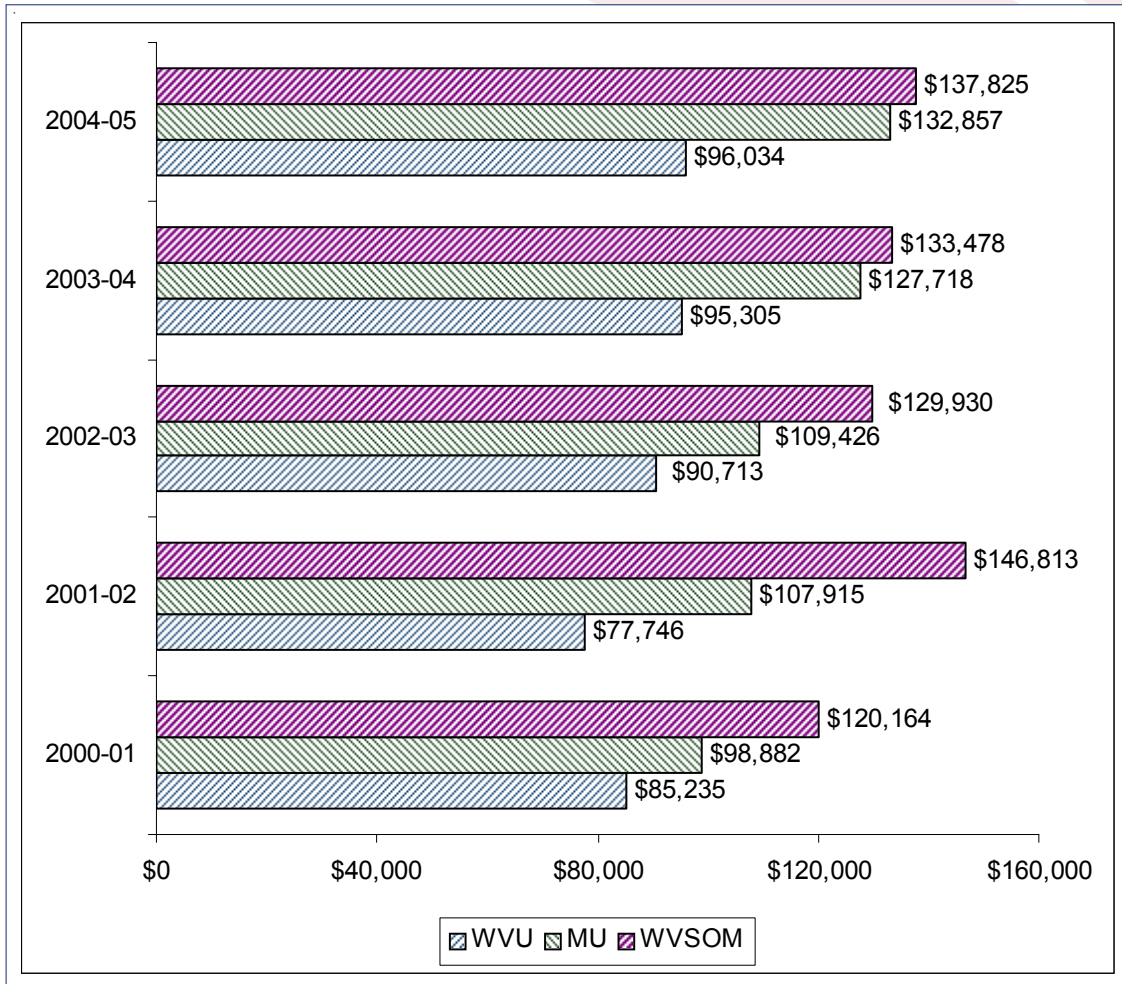
COMMENTARY

Medical school graduates begin practice after completing 3 to 5 years of residency training in a given specialty. Two factors are important in tracking their retention: (1) specialty choice, because primary care fields are most needed in rural West Virginia; and (2) location of the residency, because graduates who complete residencies in West Virginia are more likely to practice in the state.



Health Sciences Graduates, 2001-2005

	2001	2002	2003	2004	2005
West Virginia University					
Dental	40	35	34	37	43
Practicing in WV	24 (60%)	16 (46%)	27 (80%)	27 (73%)	22 (51%)
Pharmacy	49	60	71	65	72
Practicing in WV	37 (76%)	41 (68%)	48 (68%)	35 (54%)	48 (67%)
Nurse Practitioner	26	17	12	32	18
Practicing in WV	24 (92%)	13 (76%)	10 (83%)	28 (88%)	16 (89%)
Marshall University					
Nurse Practitioner	15	11	11	11	16
Practicing in WV	11 (73%)	9 (82%)	10 (91%)	5 (45%)	6 (38%)



COMMENTARY

This chart shows the average indebtedness of graduating medical students. As a point of reference, the annual tuition and fees for the medical schools in 2004-05 are shown below.

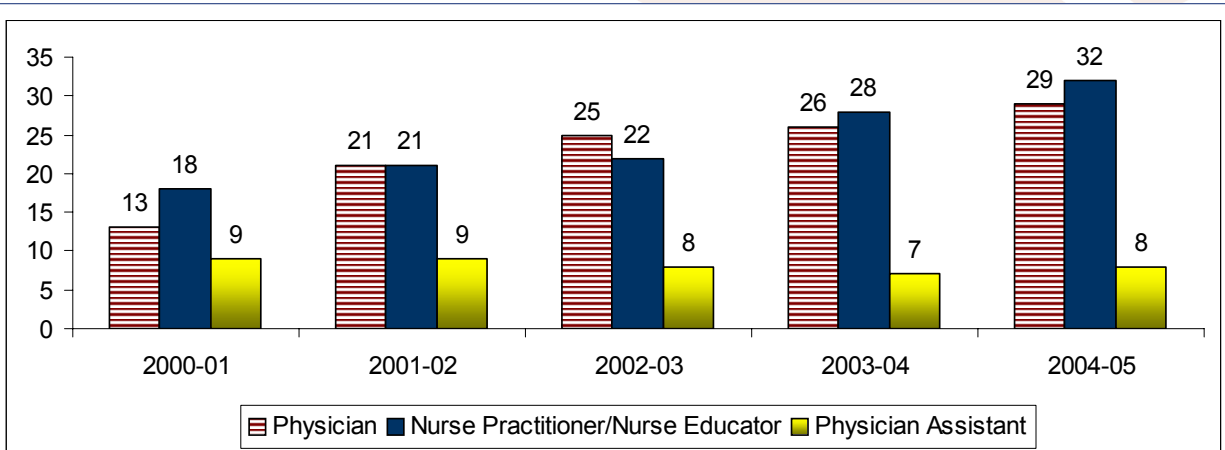
	Resident	Non-Resident
West Virginia University	\$15,456	\$35,858
Marshall University	\$14,588	\$37,178
WV School of Osteopathic Medicine	\$16,418	\$40,630

The differences in graduate indebtedness may be attributed to differences among the schools in the proportion of students paying non-resident tuition and fees.

Source: Data submitted from Medical School Institutions to HEPC.



Health Sciences Scholarship Participants Practicing in Rural WV



The Health Sciences Scholarship Program provides an incentive for students to practice in underserved areas of West Virginia. Medical students receive a \$20,000 award for a two-year service commitment. Other disciplines receive a \$10,000 award. Nurse educators became eligible in 2003. The chart shows graduates who are fulfilling their service obligation.

Medical Student Loan Program

	2000-01	2001-02	2002-03	2003-04	2004-05
Loans Awarded	370	283	289	291	306
Total Amount Awarded	\$1,189,500	\$1,225,000	\$1,246,500	\$1,354,228	\$1,586,700
Amount of Unexpended Funds	\$995,697	\$1,498,494	\$2,039,706	\$2,296,022	\$2,609,608
Loan Forgiveness	10	20	13	21	21
Default Rate on Previous Awards	2.7%	2.9%	2.5%	2.5%	3.3%

The Medical Student Loan Program, a component of the Health Education Student Loan Program, is a need-based program to assist state medical students. It is funded from medical student fees, and borrowers may earn loan forgiveness for practicing in an underserved area or in a medical shortage field in West Virginia. The unexpended funds include loan repayments. In 2005, the Legislature approved a rule change to allow the schools to increase loans from \$5,000 to \$10,000 so that these funds will be utilized.



Health Sciences and Technology Academy

Number of Students Currently Served	Number of Teachers Participating	Number of High School Graduates to Date, 1998-2004	Percentage of High School Graduates to Enter College	Percent to major in Health Sciences & Technology in College
814	80	714	94%	58%

Program Outcomes

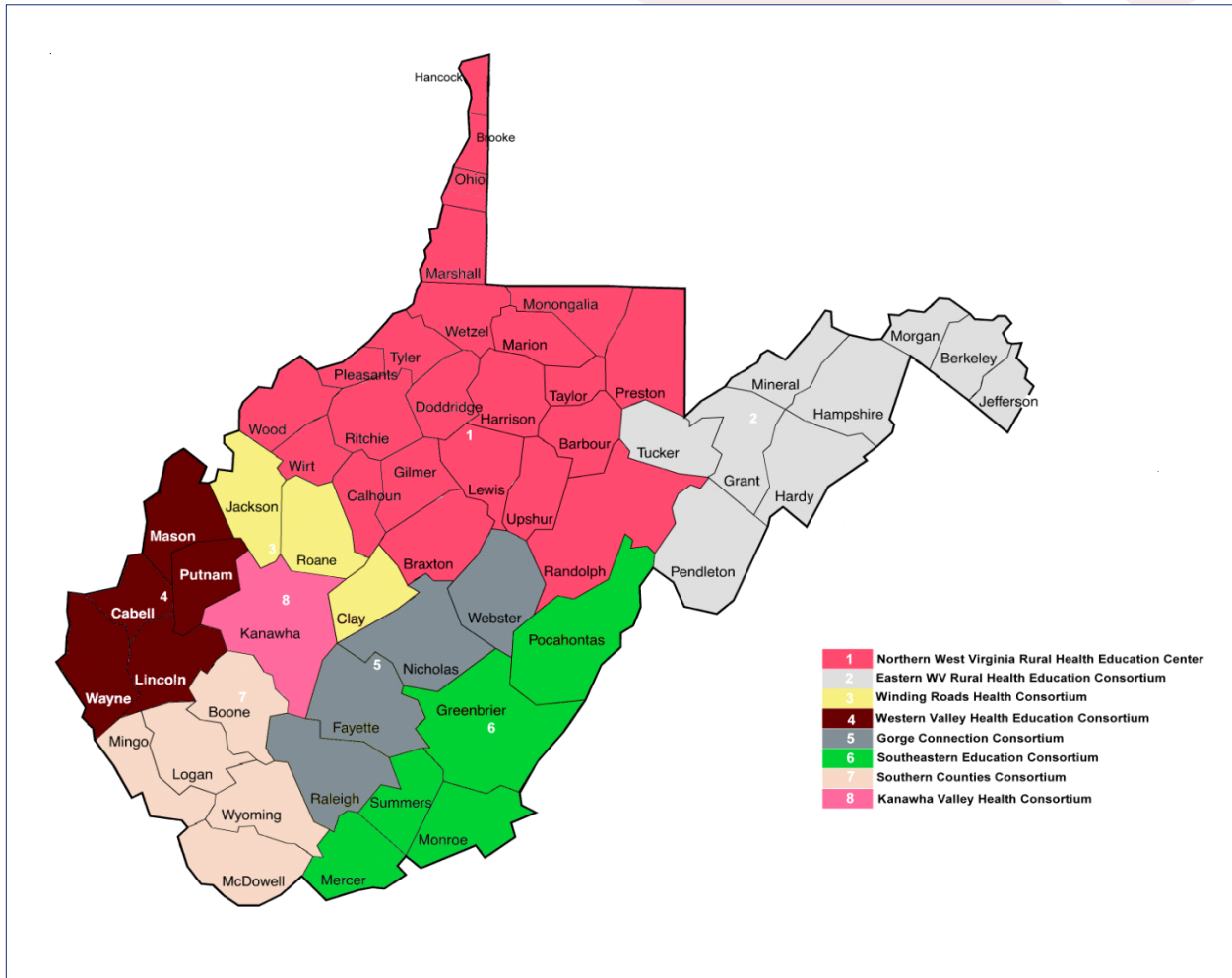
- The majority of the 714 HSTA graduates are still in college.
- 55 HSTA Scholars (23% of the first 4 cohorts) have gone on to graduate or professional school. Of that number, 27 HSTA Scholars (49%) have enrolled in health science graduate programs or professional school.
- 10 HSTA students are currently in medical school.

COMMENTARY

The Health Sciences and Technology Academy (HSTA) reaches out to minority and disadvantaged students in 26 counties and helps them prepare for higher education and health care careers. Students from the 9th-12th grade progress through four years of training with local teachers and campus-based faculty.

COMMENTARY





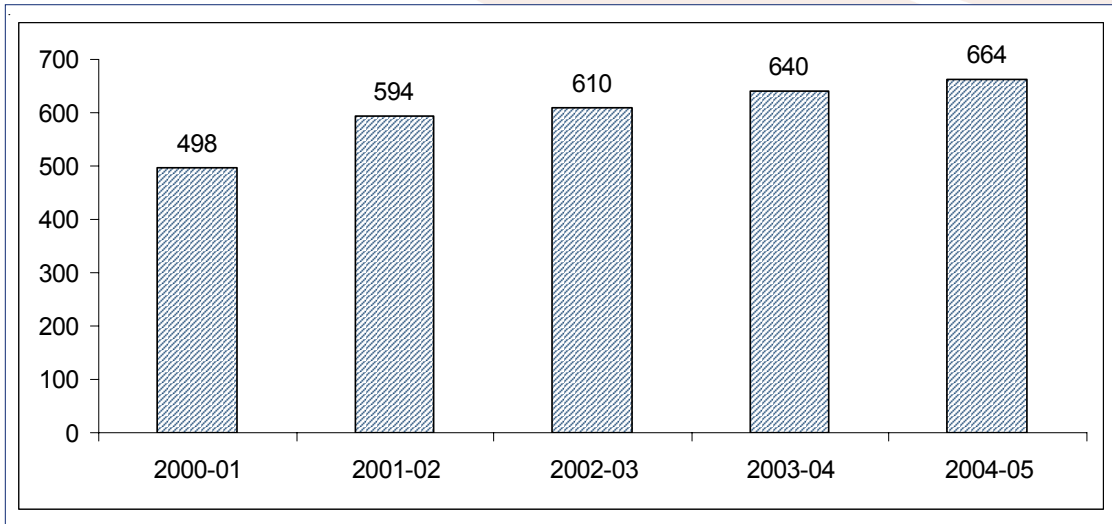
COMMENTARY

In 2004-05, the West Virginia RHEP completed mergers and consolidations resulting in 8 consortia, compared to 13 in 1995. These changes are designed to achieve greater efficiencies while maintaining the quality of educational experiences for trainees. The program has formed a partnership with the federally funded West Virginia Area Health Education Centers (AHEC) to provide community-based education and training in all counties of the state. The RHEP program focuses on rural underserved areas, while the AHEC serves all areas of the state.

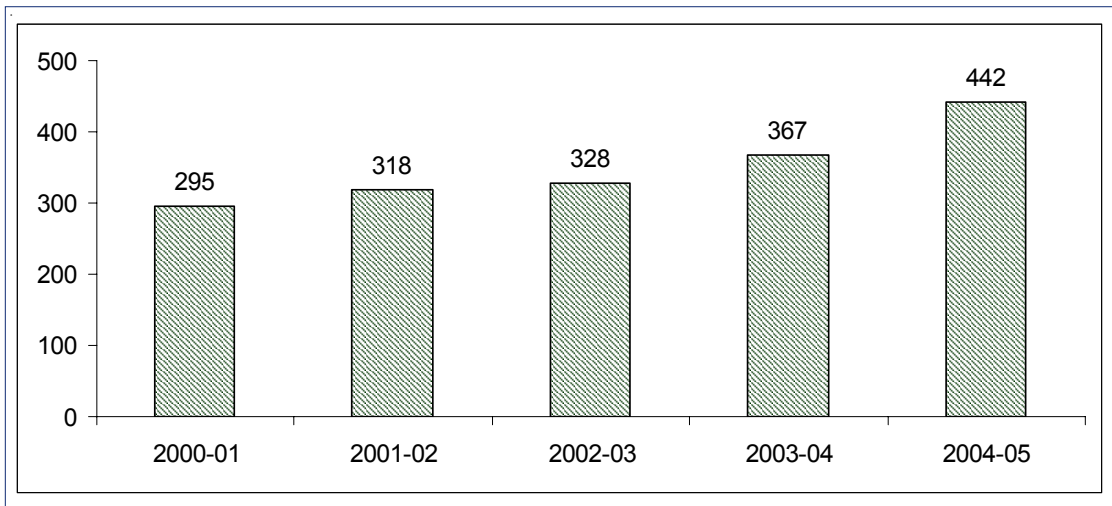
COMMENTARY



RHEP Field Faculty



RHEP Training Sites



COMMENTARY

West Virginia RHEP field faculty are active rural practitioners who also teach students. In 2005, the Faculty Development Conference was held jointly with Area Health Education Centers and the Mountain State Geriatric Education Center. The theme was "Advancing Quality in Community-Based Health Professions Training." A total of 70 field faculty, institutional staff and others attended.

COMMENTARY



Consortium Lead Agency and Sub-areas	Counties	Number of Training Sites	Number of Field Faculty	
Eastern WV Rural Health Education Consortium-Martinsburg	Berkeley, Jefferson and Morgan	24	1 Dentistry 18 Medicine 11 Nursing	1 Occupational Therapy 14 Pharmacy 1 Physician Assistant 7 Physical Therapy
Eastern WV Rural Health Education Consortium-Petersburg	Grant, Hampshire, Hardy, Mineral, Pendleton and Tucker	48	2 Clinical Psychology 4 Dentistry 31 Medicine 7 Nursing 1 Nurse-Midwife	5 Nurse Practitioner 1 Occupational Therapy 9 Pharmacy 4 Physician Assistant 5 Physical Therapy 1 Social Work
The Gorge Connection <i>(Formerly Rivers & Bridges and Webster-Nicholas Education Consortium)</i>	Fayette, Raleigh, Nicholas and Webster	20	1 Clinical Psychology 3 Dentistry 25 Medicine 5 Nursing 1 Nurse-Midwife	4 Nurse Practitioner 4 Pharmacy 5 Physician Assistant 2 Physical Therapy 2 Social Work
Kanawha Valley Health Consortium <i>Cabin Creek Health Center</i>	Rural areas of Kanawha	15	2 Dentistry 8 Medicine 5 Nursing	2 Nurse Practitioner 3 Pharmacy
Northern WV Rural Health Education Center-Region 1 <i>(Formerly Rural Ohio Valley Education Resources [ROVER] Consortium)</i>	Brooke, Hancock, Marshall, Ohio and Wetzel	20	1 Dentistry 11 Medicine Medical 11 Technology 9 Nursing	6 Pharmacy 2 Physical Therapy
Northern WV Rural Health Education Center-Region 2 <i>(Formerly Little Kanawha Area)</i>	Calhoun, Doddridge, Gilmer, Pleasants, Ritchie, Tyler and Wirt	64	1 Dentistry 14 Medicine 4 Nursing	4 Nurse Practitioner 10 Pharmacy 1 Physician Assistant

COMMENTARY

The RHEP training infrastructure covers the most underserved areas of 54 counties. Training sites include rural hospitals, health centers, private physician offices, dental offices, pharmacies, public health departments, human service agencies, mental health centers, schools, and other health care organizations (e.g., home health).

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Consortium Lead Agency and Sub-areas	Counties	Number of Training Sites	Number of Field Faculty	
Northern WV Rural Health Education Center-Region 3 (Formerly Mountain Health Consortium-Braxton/Grafton)	Braxton, Harrison, Lewis, Marion and Monongalia	46	10 Dentistry 15 Medicine 1 Medical Technology 29 Nursing	2 Nurse Practitioner 8 Pharmacy 1 Physician Assistant 3 Physical Therapy
Northern WV Rural Health Education Center-Region 4 (Formerly Mountain Health Consortium-St Joseph/Grafton)	Barbour, Preston, Randolph, Taylor and Upshur	68	8 Dentistry 42 Medicine 3 Medical Technology 17 Nursing 1 Nurse-Midwife	3 Nurse Practitioner 1 Occupational Therapy 13 Pharmacy 2 Physician Assistant 14 Physical Therapy 2 Social Work
Southern Counties Consortium (Formerly Southern Counties Consortium-Madison & Pineville)	Boone, Logan, McDowell, Mingo and Wyoming	25	3 Dentistry 19 Medicine 8 Nurse Practitioner	3 Pharmacy 3 Physician Assistant 1 Physical Therapy
Southeastern Counties Consortium (Formerly Rural Mountain Consortium and Country Roads Consortium)	Greenbrier, Mercer, Monroe, Pocahontas, and Summers	40	4 Dentistry 46 Medicine 1 Nursing 4 Nurse Practitioner	8 Pharmacy 1 Physician Assistant 8 Physical Therapy 1 Social Work
Western Valley Health Education Consortium -Ft Gay (Formerly Cabwaylingo)	Cabell, Wayne and Lincoln	14	2 Dental Hygiene 3 Dentistry 15 Medicine 2 Nursing	1 Nurse-Midwife 5 Nurse Practitioner 1 Pharmacy 2 Physician Assistant
Western Valley Health Education Consortium Pt. Pleasant (Formerly Western Counties Consortium)	Cabell, Lincoln, Mason, Putnam and Wayne	41	2 Dentistry 37 Medicine 1 Nursing	4 Pharmacy 1 Physical Therapy
Winding Roads Health Consortium Roane County Family Health Care	Clay, Roane and Jackson	17	3 Dentistry 21 Medicine 2 Medical Technology 2 Nursing 1 Nurse-Midwife	2 Nurse Practitioner 9 Pharmacy 1 Physician Assistant 3 Physical Therapy
	Total Training Sites	442	3 Clinical Psychology 2 Dental Hygiene 45 Dentistry 302 Medicine 7 Medical Technology 93 Nursing 5 Nurse-Midwife	39 Nurse Practitioner 3 Occupational Therapy 92 Pharmacy 21 Physician Assistant 46 Physical Therapy 6 Social Work
			Field Faculty Total	640



Training Consortia Expenditures

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July 1, 2004 - June 30, 2005

	CABWAYLINGO	EASTERN WVREH	KANAWHA VALLEY	LITTLE KANAWHA	MOUNTAIN HEALTH	GORGE CONNECTION
DIRECT SERVICE EXPENSES						
Student/Resident Housing	\$ 10,997	\$ 30,495	\$ 1,720	\$ 12,870	\$ 43,288	\$ 25,810
Student/Resident LRC	1,420	14,109	1,000	3,570	15,733	13,734
Student/Resident Rotation Coordination	59,201	118,973	38,846	44,059	139,282	115,561
IDS Prep & Presentation	12,000	12,120	11,677	1,276	23,400	3,464
Annual Honorarium - Preceptors	30,000	28,315	15,706	5,600	-	57,522
Graduate Medical Education	1,000	15,000	2,000	52,479	15,818	1,400
Recruitment & Retention	-	-	500	-	-	10,107
Community Service	540	12,182	31,714	5,110	16,867	4,119
On-Site Clinical Director	17,000	-	17,000	-	51,612	24,024
Faculty Development	1,348	-	1,000	20,725	12,000	1,626
Subtotal	\$ 133,506	\$ 231,194	\$ 121,163	\$ 145,689	\$ 318,000	\$ 257,367
	83%	73%	86%	75%	84%	82%
INDIRECT SERVICE EXPENSES*						
Subtotal	\$ 27,896	\$ 86,045	\$ 19,026	\$ 49,592	\$ 60,215	\$ 57,169
	17%	27%	14%	25%	16%	18%
TOTAL	\$ 161,402	\$ 317,239	\$ 140,189	\$ 195,281	\$ 378,215	\$ 314,536

In the past year, West Virginia RHEP reduced the number of training consortia from 11 to 8 through mergers and consolidations. A map of the 8 consortia is on page 15, and information on name changes is on pages 17 and 18.

*Indirect service expenses include site administration, administrative travel, office expense, and fiscal management.

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Training Consortia Expenditures

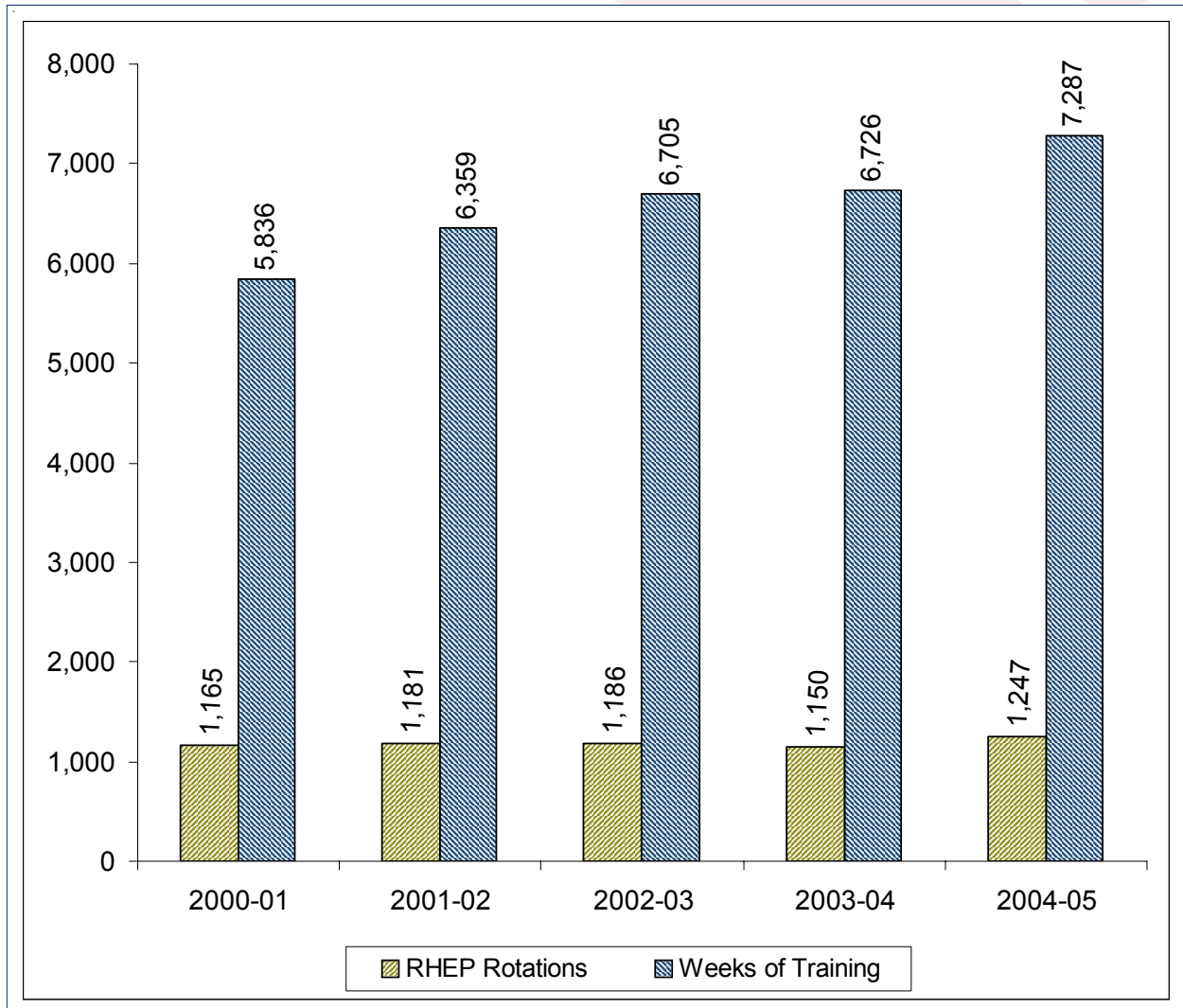
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July 1, 2004 - June 30, 2005

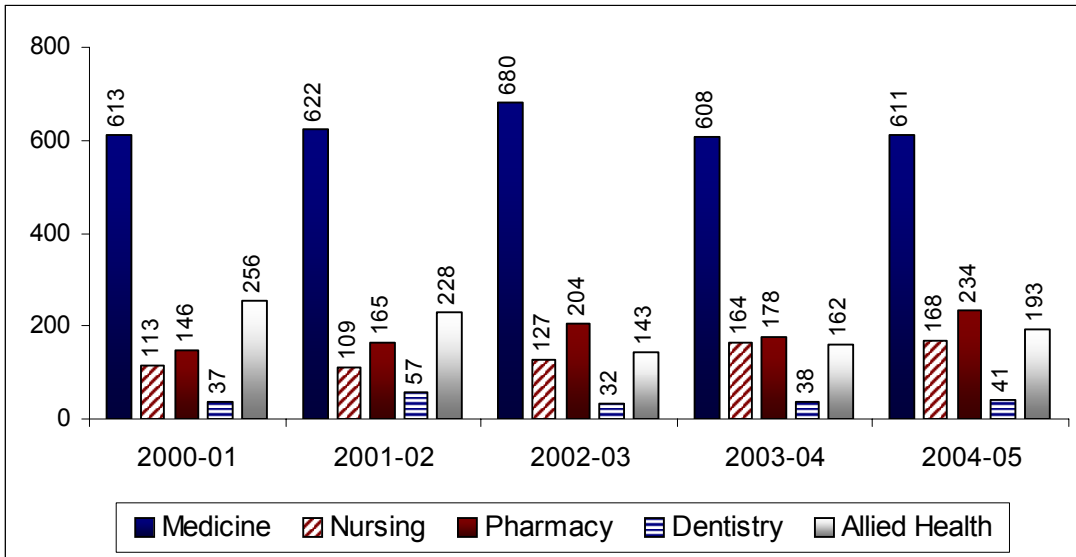
ROVER	SOUTHEASTERN	SOUTHERN	WESTERN	WINDING ROADS	TOTALS	
DIRECT SERVICE EXPENSES						
\$ 2,875	\$ 29,574	\$ 17,293	\$ 4,000	\$ 14,924	\$ 193,846	Student/Resident Housing
11,860	18,187	3,180	6,473	8,036	97,302	Student/Resident LRC
60,605	82,070	97,054	68,097	67,390	891,138	Student/Resident Rotation Coordination
3,300	750	8,749	650	4,650	82,036	IDS Prep & Presentation
21,700	31,600	14,400	10,000	30,200	245,043	Annual Honorarium - Preceptors
-	271	2,415	24,667	-	115,050	Graduate Medical Education
3,419	100	-	20,000	-	34,126	Recruitment & Retention
1,499	6,301	4,415	-	4,683	87,430	Community Service
41,000	34,000	17,000	-	-	201,636	On-Site Clinical Director
2,793	816	3,455	-	-	43,763	Faculty Development
						-
\$ 149,051	\$ 203,669	\$ 167,961	\$ 133,887	\$ 129,883	\$ 1,991,370	Subtotal
92%	82%	70%	78%	80%	80%	
INDIRECT SERVICE EXPENSES						
\$ 12,106	\$ 43,992	\$ 72,548	\$ 36,852	\$ 33,252	\$ 498,693	Subtotal
8%	18%	30%	22%	20%	20%	
\$ 161,157	\$ 247,661	\$ 240,509	\$ 170,739	\$ 163,135	\$ 2,490,063	TOTAL



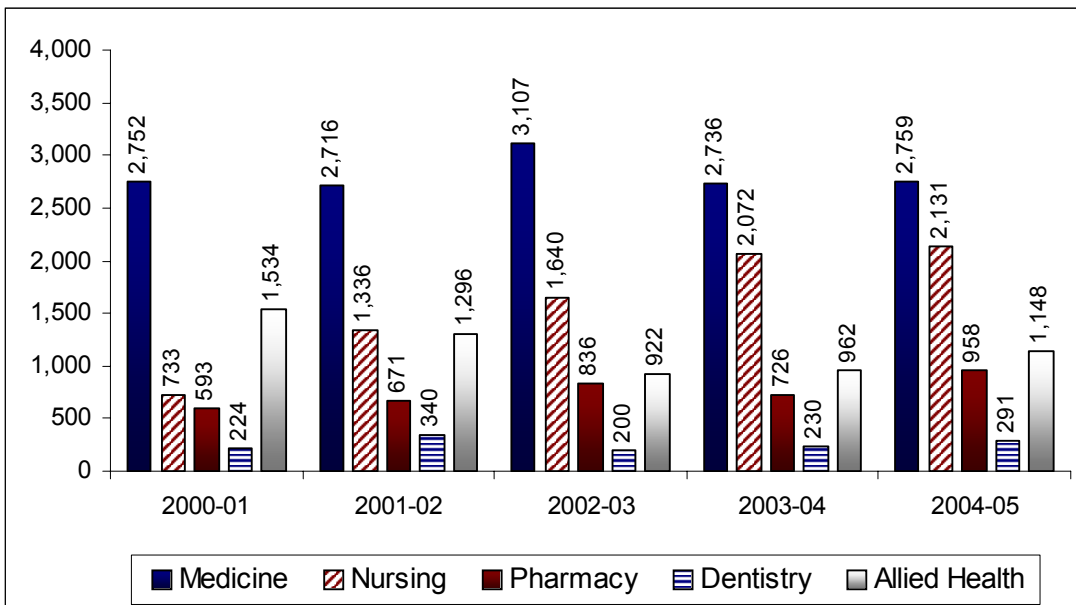
RHEP Student Rotations by Year



RHEP Rotations by Year/Discipline



RHEP Student Weeks by Year/Discipline



Rotations by School/Discipline: June 1, 2004 - May 31, 2005

School/Discipline	Student Rotations	Student Weeks	Student Rotations	Student Weeks
Alderson-Broadus College				
Nursing	0	0	0	0
Physician Assistant	50	190	14	54
Mountain State University				
Physician Assistant	78	461	0	0
Nurse Practitioner	4	50	3	42
Marshall University				
Medicine	104	425	46	133
Medical Resident	0	0	6	25
Nursing	23	136	14	138
Speech Pathology	0	0	2	26
West Liberty State College				
Dental Hygiene	1	3	0	0
WV School of Osteopathic Medicine				
Medicine	252	1,294	292	1,201
Medical Resident	0	0	37	149
West Virginia University				
Nursing	93	1241	0	0
Nurse Practitioner	7	121	1	17
Nurse Practitioner-Charleston	9	135	7	109
Physical Therapy	33	337	1	12
Dentistry	41	291	1	7
Dental Hygiene	18	116	0	0
Masters in Public Health	0	0	1	4
Medicine	155	626	35	79
Medicine-Charleston	85	350	2	8
Medicine-Eastern	10	39	0	0
Medical Resident	5	25	0	0
Medical Technology	9	32	9	28
Pharmacy	234	958	74	305
Social Work	1	6	0	0
West Virginia University Institute of Technology				
Nursing	32	448	0	0
Dental Hygiene	3	3	14	14
Total	1,247	7,287	559	2,351

Contacts by Consortia: June 1, 2004 - May 31, 2005

Consortium	Prevention and Education for General Public	Prevention and Education for Adults	Prevention and Education for Children	Total
Eastern WV Rural Health Education Consortium-Martinsburg (Berkeley, Jefferson and Morgan)	582	420	1,962	2,964
Eastern WV Rural Health Education Consortium-Petersburg (Grant, Hampshire, Hardy, Mineral, Pendleton and Tucker)	613	1,461	3,907	5,981
The Gorge Connection (Fayette, Nicholas, Raleigh and Webster)	1,749	933	2,985	5,667
Kanawha Valley Health Consortium (Kanawha)	255	2,149	3,147	5,551
Northern WV Rural Health Education Center-Region 1 (Brooke, Hancock, Marshall, Ohio and Wetzel)	322	1,205	6,888	8,415
Northern WV Rural Health Education Center-Region 2 (Calhoun, Doddridge, Gilmer, Pleasants, Ritchie, Tyler and Wirt)	1,271	239	1,750	3,260
Northern WV Rural Health Education Center-Region 3 (Braxton, Harrison, Lewis, Marion and Monongalia)	1,353	1,050	5,172	7,575
Northern WV Rural Health Education Center-Region 4 (Barbour, Preston, Randolph, Taylor and Upshur)	2,892	1,583	4,523	8,998
Southern Counties Consortium (Boone, Logan, Mingo, McDowell and Wyoming)	471	2,703	1,091	4,265
Southeastern Education Consortium (Greenbrier, Mercer, Monroe, Pocahontas and Summers)	998	778	910	2,686
Western Valley Health Education Consortium-Ft Gay (Cabell, Lincoln and Wayne)	2,000	235	2,232	4,467
Western Valley Health Education Consortium-Pt. Pleasant (Cabell, Lincoln, Mason, Putnam and Wayne)	2,055	651	2,047	4,753
Winding Roads Health Consortium (Clay, Jackson, and Roane)	1,076	1,409	3,446	5,931
Totals	15,637	14,816	40,060	70,513

RHEP provides a wide variety of community services, such as health fairs, health screenings, tobacco awareness, walking programs, immunization clinics, emergency preparedness presentations, diabetes programs, and oral hygiene presentations for all age groups. Faculty and students provided services to Hurricane Katrina evacuees at Camp Dawson. The quality of services has increased with the incorporation of linkages to Healthy People 2010 objectives and statewide projects such as the Coronary Artery Detection in Appalachian Communities (CARDIAC) Project.

The CARDIAC program has expanded to all 55 counties. The overall objective is to reduce heart disease mortality. Since 1998, the program has screened over 30,000 children and some of their parents. In the past two years, 1,057 children participated in the CARDIAC Kinder Project, which involved screenings, parental questionnaires and a pedometer study. Children were screened for height, weight and body mass index. The CARDIAC Teen Project has, in two years, screened nearly 400 9th graders in two counties. Both programs will be expanding in the coming year. New this year is CARDIAC Two, a screening program for 2nd graders initiated at the request of the WV Department of Education. The Department is partnering with CARDIAC and RHEP in order to fulfill a legislative mandate to screen school-age children (Healthy Lifestyles Act of 2005). The CARDIAC program has received national and state awards.

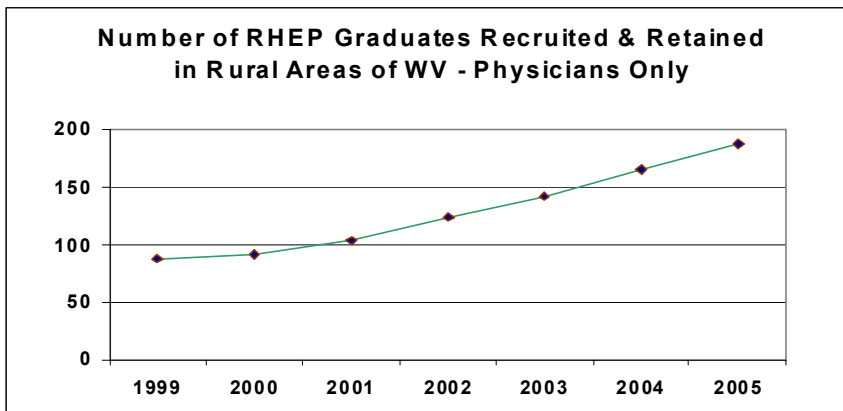
In 2004-05, RHEP dental and dental hygiene students provided 11,769 clinical procedures. Students and faculty participated in 290 outreach activities serving more than 24,190 West Virginians. RHEP dental sites, including dentists and students, provided \$2.6 million in uncompensated care.



West Virginia Trained Health Professionals in Practice in Rural Areas of the State

Discipline	Number in Rural Practice	Number who Received Financial Incentives
Physicians (1991-2002 graduates)	187	74 (40%)
Nurse Practitioners/Nurse Educators	78	35 (45%)
Physician Assistants	105	47 (45%)
Nurses	73	-
Dentists	79	1 (1%)
Dental Hygienists	17	-
Pharmacists	150	-
Physical Therapists	41	-
Psychologist	1	-
Occupational Therapist	1	-
Medical Technologists	5	-
Masters in Public Health	1	-
TOTAL	738	157 (21%)*

Methodology: Data on physicians include graduates from 1991-2002 who have completed residency training. Data on all other disciplines include graduates from 1991-2005.



Each of the medical (DO & MD) graduates is re-verified annually so the count each year reflects the loss of some rural practitioners to urban and out-of-state practice. Despite this expected loss, the number of medical graduates in rural practice has increased 113% in the past 7 years at an average annual rate of 13.4%.

COMMENTARY

*The RHEP Recruitment and Retention Committee coordinates state recruitment efforts, including financial incentives, as a companion strategy to rural training. Two hundred nineteen (219) incentives were awarded to these 157 rural practitioners:

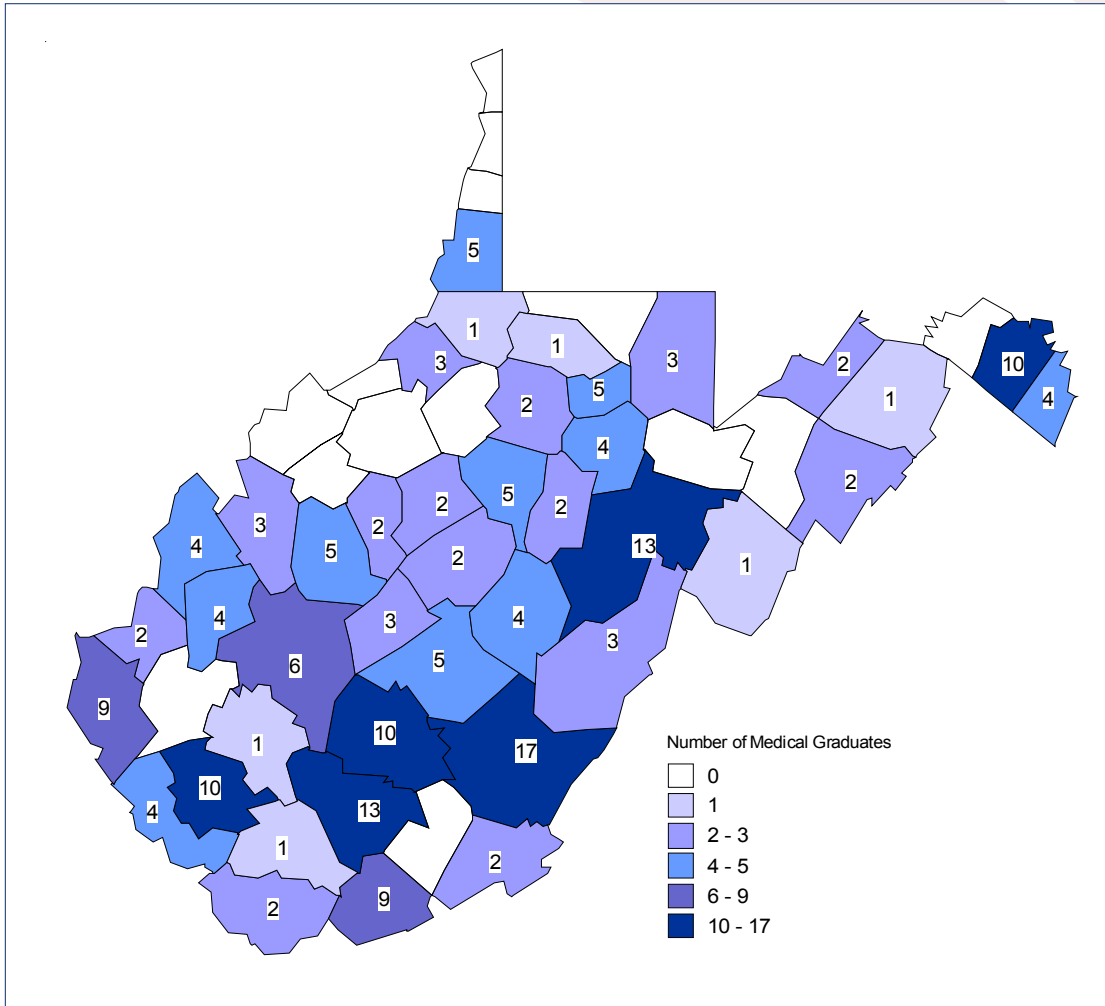
West Virginia Higher Education Policy Commission
Health Sciences Scholarship Program - 69 Awards

West Virginia Rural Health Education Partnerships
SEARCH Training Stipends - 43 Awards
Community Scholarship Program - 7 Awards

Bureau for Public Health, Division of Recruitment
Recruitment & Retention Community Project - 77 Awards
State Loan Repayment Program - 23 Awards



Recent WV Medical Graduates Practicing in Rural Areas in 2005



COMMENTARY

One hundred eighty seven (187) West Virginia trained physicians were practicing in rural areas of the state in 2005. They include graduates from 1991-2002. Seventy-four (40%) of these physicians received state financial incentives.

Recruitment data on pages 26 and 27 were provided by the HEPC, WVDHHR, medical schools, and RHEP staff.

COMMENTARY

