UPDATE: VIRGINIA PHYSICIAN WORKFORCE SHORTAGE

Joint Commission on Health Care

September 17, 2013

Stephen W. Bowman
Senior Staff Attorney/Methodologist

House Joint Resolution 687 (Del. Purkey)

1. Determine whether a shortage of medical doctors exists in the Commonwealth, by specialty and by geographical region
2. Project the future need for medical doctors in Virginia over the next 10 years by field of specialty
3. Identify and assess factors that contribute to the shortage of medical doctors
4. Identify the medical specialty fields primarily affected by the shortage of doctors
5. Recommend ways to alleviate shortages
Agenda

- Physician Supply, Shortages, and Maldistribution
- Medical School Graduates, Residencies, and Geriatric Training
- Recent Impacts and State Policies
- Policy Options
Virginia Has Over 16,000 Practicing Physicians and 48% Are Primary Care Providers

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>2782</td>
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</tr>
<tr>
<td>Psychiatry</td>
<td>1209</td>
<td>7%</td>
</tr>
<tr>
<td>Other*</td>
<td>6151</td>
<td>38%</td>
</tr>
<tr>
<td><strong>Total Physicians</strong></td>
<td><strong>16,385</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

*See Appendix for additional breakout of physician specialty counts

46% of Physicians that Manage Patient Load Primary Work Practices Are “Far from Full”

**Primary Work Location**

- Practice is far from full: 5%
- Practice is almost full: 49%
- Practice is full: 46%

**Secondary Work Location**

- Practice is far from full: 5%
- Practice is almost full: 36%
- Practice is full: 59%

Note: Number and percentage are weighted estimates of physicians that manage patient load from Department of Health Professions Physician Survey

Multiple Factors Impact Specialty Choices

- Income gap between primary care physicians and specialists
  - “Physicians in the primary care specialties can expect to earn about $50,000 less per year than physicians in non-primary care specialties.”
  - Virginia’s Physician Workforce: 2012

- Likelihood of students choosing primary care, rural and underserved careers significantly increased by:
  - Rural birth
  - Interest in serving underserved or minority populations
  - Exposure to Title VII in medical school
  - Rural or inner-city training experiences

- Primary care physicians have uncompensated care coordination duties and other administrative burdens that specialists do not have (e.g. in managed care gatekeeper function)


Physicians Per Person Ratios Vary by Region

Legend

<table>
<thead>
<tr>
<th>FTEs per 100,000 Residents</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>132</td>
<td>Gray</td>
</tr>
<tr>
<td>141 - 147</td>
<td>Green</td>
</tr>
<tr>
<td>183 - 189</td>
<td>Green</td>
</tr>
<tr>
<td>222</td>
<td>Green</td>
</tr>
<tr>
<td>296 - 308</td>
<td>Green</td>
</tr>
</tbody>
</table>

Note: Council on Virginia’s Future regions are used

Primary Care Shortage Areas

126 Primary Care Physician FTEs are required to eliminate Virginia Health Professional Shortage Areas

![Map of Virginia Primary Care Health Professional Shortage Areas (HPSA)]

Note: Health Resources & Services Adm. (HRSA) Primary Care Health Professional Shortage designation uses full-time equivalent primary care physician to population ratios.


Current and Future Geriatrician Shortages Mean Other Providers Will Fill the Gap

- Between 2005 and 2030, the number of adults aged 65 and older in the United States will almost double (37 million to 70 million).

- Older adults use a disproportionate amount of medical services. By population, individuals over 65 years of age make up only about 12% of the U.S. population, they account for:
  - 26% of all physician office visits,
  - 47% of all hospital outpatient visits with nurse practitioners,
  - 35% of all hospital stays,
  - 34% of all prescriptions,
  - 38% of all emergency medical service responses, and
  - 90% of all nursing-home use.

- 7,356 certified geriatricians were practicing in the U.S. in 2012 and 30,000 will be needed by 2030 (American Geriatrics Society).

- Fewer than 3 percent of students in medical schools choose to take geriatric electives.


* Up-to-date designation data may be obtained from HRSA Shortage Designation Branch at http://datahrsa.hrsa.gov/databases/apic.
Forecasts of Specialty Physician Shortage or Surplus Should Be Considered with Caution

- The health care workforce (entry, retention, exit and re-entry) can be subject to unpredictable and variable supply-side influences.
  - Labor market factors: licensure requirements and skills portability
  - Structural workforce issues: participation levels, workforce aging, lifestyle factors and gender.

- Demand-side variables can be unpredictable as well.
  - Shifting utilization patterns of reflecting changes in consumer expectations of health care
  - Policy changes that impact pricing and payment systems
  - Number of insured and evolving service delivery models.


2010 DHP Report: Projected Future Shortages Would Be Most Prevalent in Primary Care and Surgery Specialties

Team-Based Health Care Is More Accepted and Can Be Used to Address Shortages

**Health Affairs**

By Michael J. De, Stacie Parkman, Clare Erickson, and Scott Shigem

Survey Shows Consumers Open To A Greater Role For Physician Assistants And Nurse Practitioners

**January** 2013

Primary Care Physician Shortages Could Be Eliminated Through Use Of Teams, Nonphysicians, And Electronic Communication

**June** 2013

Note: Workforce-provider counts vary depending on source data and methodology. As a result, data trends are more informative than specific provider counts.
Path to Practice in the United States Is Challenging and Time-Consuming for Foreign Doctors

- To become a U.S. licensed physician an immigrant physician who has already practiced medicine in a foreign country must:
  - Pass prerequisite exams in order to apply for a residency
  - Be selected for a U.S. medical residency slot
  - Complete U.S. residency

New York Times Profile: Sajith Abeyawickrama

- At age 37 came to U.S. in 2010 to marry
- Anesthesiologist in home country, Sri Lanka.
- Instead of working as a doctor, he has held a series of jobs in the medical industry, including:
  - Entering patient data into a hospital’s electronic medical records system,
  - Teaching a test prep course for students trying to become licensed doctors themselves.

Medical School Enrollment in Virginia Has Increased 15% since 2008

2008 2009 2010 2011 2012
2,512 2,570 2,663 2,803 2,893

VT-Carilion
VCOM
VCU
UVA
EVMS

Note: Liberty College of Osteopathic Medicine inaugural class is expected to begin fall 2014 and enroll 150 students each year.


Resident Position Increases Are Not Expected to Keep Pace with Medical School Graduates

<table>
<thead>
<tr>
<th>U.S. Medical School Enrollment</th>
<th>2002 Enrollment</th>
<th>2012 Enrollment</th>
<th>2017 Projected Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>(%) increase of 2002 enrollment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.D.</td>
<td>16,488</td>
<td>19,517 (18%)</td>
<td>21,434 (30%)</td>
</tr>
<tr>
<td>D.O.</td>
<td>2,968</td>
<td>5,804 (96%)</td>
<td>6,675 (125%)</td>
</tr>
<tr>
<td>Total</td>
<td>19,456</td>
<td>25,321 (30%)</td>
<td>28,109 (44%)</td>
</tr>
</tbody>
</table>


Residents (2013): 26,392 positions (PGY-1)

- Applicant type matches
  - 16,390 U.S. seniors
  - 2,706 U.S. IMGs
  - 3,601 Non-U.S. IMGs

- International medical school graduates (IMGs) and students who are U.S. citizens and non-U.S citizens apply to U.S. residencies

Residency Applications and Positions 1952-2013
Medicare Residency Funding Remains at 1996 Levels

**Traditional Funding**
1. U.S. Federal government
   - Largest supporter of graduate medical education
   - Program examples:
     - $9.5 billion in Medicare funds
     - Funding remains at 1996 levels
     - $2 billion in Medicaid funds
     - Department of Veterans Affairs
     - Department of Defense
2. Individual States
   - 40 states paid $3.8 billion through Medicaid programs in 2009
3. Private insurers
   - Insurer payments to teaching hospitals are typically higher than what they pay other hospitals

**Virginia Funding**
- Medicaid provides funding to residencies
  - FY09 - $36 million in Direct and Indirect Medical Education funding to private hospitals
- Virginia provides general funds for family practice residencies and medical student programs
  - 2013 allotments:
    - EVMS $ 722,146
    - UVA $1,349,795
    - VCU $4,217,317

64% of physicians that completed VCU’s Family Practice Residency programs will practice in Virginia

Sources: Health Affairs Policy Brief, Graduate Medical Education, August 16, 2012; Virginia Acts of Assembly Chapter 806, 2013 Session; Department of Medical Assistance Services report to JCHC, Enhancing Direct Medical Education and Indirect Medical Education Payments, August 30, 2011; and correspondence with representative from Virginia Department of Planning and Budget as well as Dr. Anton Kuzel, VCU Department of Family Medicine.

PPACA Residency Changes and Virginia Residency Enhancement

**PPACA**
- Patient Protection and Affordable Care Act (PPACA) encourages the development or expansion of teaching health centers - community-based, ambulatory, patient care centers that operate a primary care residency program.
  - Examples: grants and provisions allowing providers to count teaching time toward their National Health Service Corps service requirement.

**New Activities**
- Medical colleges are working with hospitals to develop new residencies.
  - Examples include:
    - VCOM has collaborated with Lewis Gale Montgomery Regional Hospital (54 positions) and Danville Regional Health System (79 positions)
    - VCU and Patient First
      - Pilot to allow third-party payer reimbursement for 3rd year residents who work at Patient First sites, which may lead to hybrid private practice/residency program model.

Source: Congressional Research Service, Physician Supply and the Affordable Care Act, January 15, 2013 and email correspondence with representatives from Via College of Osteopathic Medicine and the Medical Society of Virginia.
Geriatric and Team-Based Training Has Improved in Virginia

Virginia Geriatric Education Center
- VCU, UVA, and EVMS Collaboration
- Established in 2010
- Funded by $5.1 million HRSA grant for 5 years

Goals
- **Geriatric Faculty**: Support training and retraining of faculty
- **Students**: Provide clinical training in geriatrics in diverse health care settings
- **Active Practitioners**: Support continuing education of health professionals who provide geriatric care
- **Curricula**: Develop, evaluate, and disseminate information relating to geriatric care

VCU Medical School Training
- New requirement: Unfolding geriatric case of “Mattie Johnson”, virtual patient
- 7-9 person teams composed of senior professional students in medicine, nursing, pharmacy, and social work
- 11 week training
- Training platform allows for virtual collaboration
- Case focuses on 26 core geriatric competencies
- Measures individual and group performance, as well as collaborative behaviors

Sources: Virginia Center on Aging, Director’s Editorial, Filling the Gap, Edward F. Ansello, Ph.D, Fall 2010 at http://www.sahp.vcu.edu/vcoa/editorials/pdfs/fall10.pdf and JCHC staff email correspondence with Dr. Peter Boling, VCU Medical School professor.
Health Care Workforce Regulation, Coordination, and Information Efforts

- Department of Health Professions
  - Workforce Data Center
    - Surveys of many DHP professions including physicians, nurse practitioners, physician assistants, and pharmacists.
  - HB 1535 (2011): Allow Boards of Medicine and Nursing to consider and accept relevant military training in lieu of education requirements
  - Military Credentials Review

- Virginia Health Workforce Development Authority
  - HB 1304 (2010): Facilitates “the development of a statewide health professions pipeline that identifies, educates, recruits, and retains a diverse, geographically distributed and culturally competent quality workforce.”
  - In 2010, received a federal Health Resources and Services Administration (HRSA) grant of $1.9 million

Telemedicine

- Telemedicine coverage is mandated for reimbursement in state-regulated private market
  - Senate Bill 675 (Wampler-2010): Requires insurers to reimburse for the cost of such health care services provided through telemedicine services.

- Virginia’s Medicaid program reimburses statewide for telemedicine services since 2003.

- Certified Telemedicine Technologist training is being developed at New College Institute
  - Program begins in early 2014
  - 250 initial enrollment (estimate)
  - Training geared toward medical professionals, including doctors, nurses, emergency medical technicians, and home health aides
  - Partially grant-funded by Virginia Workforce Health Development Authority.

Federal-State Provider Placement Programs

Federal Virginia State Loan Repayment Program (SLRP)
- HRSA provides 1:1 match rate from state or community up to $400,000
- Repayment provided to certain health care practitioners to serve in HPSA
- No currently dedicated State General Funds

Conrad 30 J-1 Waiver Program
- VDH can request a J-1 visa waiver for non-U.S. citizen IMG physicians who have completed their residency that agree to practice in an underserved area
  - Maximum of 30 per year
  - Note: VDH also participates in the Appalachian Regional Commission (ARC) J-1 Visa Waiver Program, which can request additional J-1 visas waivers in a health care professional shortage areas.

Federal Fiscal Year 2008 2009 2010 2011 2012 2013
<table>
<thead>
<tr>
<th>Loan Repayment (SLRP)</th>
<th>16</th>
<th>7</th>
<th>0</th>
<th>6</th>
<th>1</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conrad J-1 Waiver</td>
<td>21</td>
<td>13</td>
<td>20</td>
<td>24</td>
<td>30</td>
<td>30</td>
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</tbody>
</table>

Source: Document provided to JCHC staff by representatives of the Virginia Department of Health’s Office of Minority Health and Health Equity.

Legislative Changes on Collaborative Practice Allow for More Team-Based Care

<table>
<thead>
<tr>
<th># Practicing in Virginia</th>
<th>Nurse Practitioner</th>
<th>Physician Assistant</th>
<th>Pharmacist</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,056</td>
<td>6,056</td>
<td>1,891</td>
<td>5,554</td>
</tr>
</tbody>
</table>

Legislation
- HB 346 (O’Bannon-2012)
- SB 106 (Edwards-2013)
- HB 1501 (O’Bannon-2013)

Legislative Impact*
- Physician to NP ratio changed from 1:4 to 1:6
- No in-person requirement
- Physician to PA ratio changed from 1:2 to 1:6
- Pharmacist may collaborate with NP or PA

* See appendix for additional elements of legislation

Approved Physician-Related Options from the JCHC 2009 Workforce Pipelines Study

<table>
<thead>
<tr>
<th>Approved Policy Options for “When State revenue allows”</th>
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<tr>
<td>Restore funding for the Federal Virginia State Loan Repayment Program (SLRP) &amp; Virginia Loan Repayment Program (VLRP).</td>
<td>See Option 2</td>
</tr>
<tr>
<td>Increase funding for the UVA, VCU, and EVMS Family Practice Residency Programs.</td>
<td>See Option 4B</td>
</tr>
<tr>
<td>Increase Medicaid reimbursement rates to match the level of Medicare reimbursement rates for primary care physicians</td>
<td>PPACA increased rate in CY 2013 and CY2014</td>
</tr>
<tr>
<td>Fund a Continuing Medical Education course focusing on medication issues of geriatric patients and targeted for primary care physicians to take at no cost to them.</td>
<td>Virginia Geriatric Education Center provides such training</td>
</tr>
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</table>

POLICY OPTIONS
Policy Options

Option 1: Take no action.

Option 2: Introduce a budget amendment of $400,000 GFs for the Federal Virginia State Loan Repayment Program (SLRP) in order to:
   • Restore funding to the maximum amount that is eligible for the 1:1 federal match rate
   • Note: The SLRP eligibility is limited to physicians, nurse practitioners, and physician assistants who are practicing/working in family medicine, internal medicine, geriatrics, pediatrics, obstetrics/gynecology, or general psychiatry.

Option 3: Request, by letter of the JCHC Chair, the Department of Health Professions present to JCHC in 2014 regarding efforts to accept applicable military training and education toward credentialing and licensure requirements for certain selected professions. The presentation should include an update on the work of the Joint Task Force on Veterans Employment Outreach and the DHP review of health-related professions that is underway.

Option 4: Request, by letter of the JCHC Chair, that the Virginia Health Workforce Development Authority convene a workgroup to consider and report back to JCHC in 2015 regarding the advisability of, and if advisable, develop recommendations regarding:
   A. The need for a training program for graduate medical educators to teach residents requisite medical skills and ensure that medical residents in Virginia are adequately trained. If recommended, provide a training-program framework and funding requirements.
   B. A funding model for new State-supported family medicine residencies that could be used if the State increases appropriations for graduate medical education training. The model should include:
      • Consideration of whether funding would be used exclusively for resident training, where residencies would be located, and what the community or medical facility match-rates would be.
   C. The workgroup should include, at a minimum, representatives of:
      Board of Medicine:
      Virginia Association of Free and Charitable Clinics
      Medical schools located in Virginia:
      Virginia Community Health Center Association
      Medical Society of Virginia:
      Virginia Department of Health
      Other relevant organizations:
      Virginia Hospital and Healthcare Association
      Virginia Rural Health Association

Note: Options 4 A and 4 B maybe approved individually or in combination.
Option 5: Request, by letter of the JCHC Chair, that the Department of Health Professions convene a workgroup to consider and report back to JCHC in 2015 regarding the advisability of, and if advisable, the additional education or training requirements and next steps to:

A. Establish a mid-level provider license and thereby define the requirements for individuals, who are licensed to practice medicine in another country, to be licensed to practice under the supervision of a physician licensed in Virginia.

B. Establish a mid-level provider license and thereby define the requirements to allow medical school graduates who have not completed a residency to be licensed to practice under the supervision of a physician licensed in Virginia.

C. The workgroup should include, at a minimum, representatives of:

- Board of Medicine
- Medical schools located in Virginia
- Medical Society of Virginia
- Other relevant organizations:
  - Virginia Association of Free and Charitable Clinics
  - Virginia Community Health Center Association
  - Virginia Department of Health
  - Virginia Hospital and Healthcare Association
  - Virginia Rural Health Association

Note: Options 5A and 5B maybe approved individually or in combination.

Option 6: Introduce legislation to amend Titles 32.1 (Health) and 54.1 (Professions and Occupations) of the Code of Virginia to allow certain providers working within an approved facility to be exempt from Virginia’s scope of practice laws when established conditions have been met.

The providers, who would be eligible for scope of practice exemptions and therefore be allowed to perform activities that would otherwise require a license from the Boards of Medicine, Nursing, Pharmacy, or Physical Therapy (hereafter referred to as “permitted providers”) would include one or more of the following:

A. Military-trained Personnel: Applies only to individuals performing activities substantially similar to health care training and experiences that they received in the military.

B. Individuals Licensed in Other States: Applies only to individuals, licensed by a health professionals’ regulatory body in another state, who perform activities within their level of training but will not perform activities that exceed those approved for a similarly-trained professional licensed in Virginia.

C. Non-specific Grouping: Applies only to individuals that have the requisite education or training to perform the designated activities. Practice activities may be limited by the hospital or hospital governing body for individuals practicing under this exemption within its facility. Furthermore, additional limitations may be set by the provider’s supervising physician through the practice agreement.

See next 2 slides for additional requirements in order for supervising physicians, permitted providers, and hospitals to participate.
Option 6: Additional Requirements

**Requirements of the supervising physician:**
- To affirm that the permitted provider has the requisite education or training to perform the designated activities.
- To ensure that the permitted provider does not practice outside of the agreement limitations.
- To supervise no more than one permitted provider while supervising no more than two additional physician assistants or while participating in a collaborative practice agreement with no more than two nurse practitioners.
- To report to the State, any instance of a permitted provider performing an activity outside of the limitations allowed in the practice agreement.

**Permitted providers are not allowed to:**
- Possess or administer Schedules 1-5 controlled substances.
- Engage in activities they are not adequately trained to perform.
- Engage in activities that are not documented within a practice agreement maintained by the Department of Health Professions.

**Permitted providers are required to meet continuing education requirements.**

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Option 6: Additional Requirements

**Requirements of the hospital or hospital's governing body:**
- Must receive a new type of State facility license that provides for scope of practice exemptions for that specific hospital or hospital's governing body.
- Must ensure a practice agreement is in place and is adhered to by any permitted provider who will be performing activities that would otherwise require a professional license to practice in Virginia.
- Must obtain a criminal background check for each permitted provider.
- Must provide the Department of Health Professions with the practice agreement for each permitted provider.
- Must report to the State all instances of a permitted provider performing an activity outside of the limitations allowed in the practice agreement.
- Must notify patients of all permitted providers who are providing medical care at the facility.
Public Comment

- Written public comments on the proposed options may be submitted to JCHC by close of business on October 8, 2013.
- Comments may be submitted via:
  - E-mail: sreid@jchc.virginia.gov
  - Fax: 804-786-5538
  - Mail: Joint Commission on Health Care
    P.O. Box 1322
    Richmond, Virginia  23218

- Comments will be summarized and presented during JCHC’s October 22nd meeting.

APPENDIX

- Training to Become a Physician
- Health Care Practitioner Supply
- PPACA Health Care Insured Increases
- Health Care Practitioner Shortages
- Collaborative Practice Legislation
- Health Care Workforce Resources
Appendix: Training to Become a Physician

Virginia’s Two Physician Pipelines

Traditional Pipeline

Applicants (undergraduate degree) → Med School (4 years) & Pass Medical Board Certification Test → Residency/Internship (3-7 years) → Licensed Physician

International Medical Graduate Pipeline

Med School Outside of U.S. or Canada & Pass Medical Board Certification Tests → U.S. Residency (U.S. Citizen) → VDH request J-1 Visa waiver (for service in medically-underserved and health professional shortage area)* → U.S. Residency w/VISA (Non-U.S. Citizen)

Sources: Annual report on the Primary Care Workforce and Health Access Initiatives – VDH (2006), Discussion with Virginia Board of Medicine representatives, The International Medical Graduate Pipeline: Recent Trends in Certification and Residency Training, John Boulett, Health Affairs Vol 25:2 p469.

Appendix: Training to Become a Physician

20% of Virginia’s Physicians Attended a Medical School In Virginia

<table>
<thead>
<tr>
<th>State</th>
<th>Weighted Estimate</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia</td>
<td>3,915</td>
<td>20%</td>
</tr>
<tr>
<td>Outside U.S./Canada</td>
<td>3,842</td>
<td>21%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>1,160</td>
<td>7%</td>
</tr>
<tr>
<td>Washington, D.C.</td>
<td>1,233</td>
<td>6%</td>
</tr>
<tr>
<td>New York</td>
<td>1,170</td>
<td>6%</td>
</tr>
<tr>
<td>Maryland</td>
<td>781</td>
<td>4%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>655</td>
<td>3%</td>
</tr>
<tr>
<td>All Other Locations</td>
<td>6,369</td>
<td>33%</td>
</tr>
<tr>
<td>Total</td>
<td>19,260</td>
<td>100%</td>
</tr>
</tbody>
</table>

35% of Virginia’s medical school graduates locate in Virginia – American Association of Medical Colleges


<table>
<thead>
<tr>
<th>Institution</th>
<th>Weighted Estimate</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia Commonwealth University</td>
<td>1,870</td>
<td>10%</td>
</tr>
<tr>
<td>University of Virginia</td>
<td>1,275</td>
<td>7%</td>
</tr>
<tr>
<td>Eastern Virginia Medical School</td>
<td>779</td>
<td>4%</td>
</tr>
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</table>
Appendix: Training to Become a Physician

50% of Virginia’s Physicians First Residency Location Was in Virginia or a Bordering State

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<tr>
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<tbody>
<tr>
<td>Virginia</td>
<td>5,057</td>
<td>27%</td>
</tr>
<tr>
<td>Washington, D.C.</td>
<td>1,817</td>
<td>10%</td>
</tr>
<tr>
<td>New York</td>
<td>1,790</td>
<td>10%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>1,292</td>
<td>7%</td>
</tr>
<tr>
<td>Maryland</td>
<td>1,068</td>
<td>6%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>795</td>
<td>4%</td>
</tr>
<tr>
<td>Ohio</td>
<td>653</td>
<td>4%</td>
</tr>
<tr>
<td>California</td>
<td>629</td>
<td>3%</td>
</tr>
<tr>
<td>All Other Locations</td>
<td>5,450</td>
<td>29%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18,552</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>


39% of Virginia’s residency graduates locate in Virginia
– American Association of Medical Colleges

Appendix: Health Care Practitioner Supply

Virginia Physician Specialty Supply Map

Appendix: Health Care Practitioner Supply

Virginia Physician Supply Counts By Specialty

<table>
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<td>8%</td>
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<td>7%</td>
</tr>
<tr>
<td>Cardiology</td>
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<td>6%</td>
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<tr>
<td>General Surgery</td>
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<tr>
<td>Orthopedic</td>
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<tr>
<td>Ophthalmology</td>
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<tr>
<td>Neurology</td>
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<td>Gastroenterology</td>
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<tr>
<td>Dermatology</td>
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</tr>
<tr>
<td>Pulmonology</td>
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<td>2%</td>
</tr>
<tr>
<td>Urology</td>
<td>335</td>
<td>2%</td>
</tr>
<tr>
<td>Oncology</td>
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<tr>
<td>Neonatal</td>
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<td>1%</td>
</tr>
<tr>
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<td>1%</td>
</tr>
<tr>
<td>Geriatrics</td>
<td>99</td>
<td>1%</td>
</tr>
<tr>
<td>Oral Surgery</td>
<td>15</td>
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<tr>
<td>Total</td>
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<td>100%</td>
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Appendix: Health Care Practitioner Supply

Virginia Primary Care Physician Supply

Family Medicine Physicians by Locality

Appendix: Health Care Practitioner Supply

Virginia Nurse Practitioner (NP) and Physician Assistant (PA) by County Totals (2013)

Appendix: PPACA Health Care Insured Increases

PPACA Impacts Commercially Insured and Medicaid Providers

Newly Insured
- Private-market newly-insured through Health Benefits Exchange
  - Estimated 775,000 eligible
- Potential Medicaid expansion
  - Estimated 247,000 individuals if expansion occurs

Medicaid Providers
- 61% of Virginia physicians participate in the Medicaid program
- 53% of Virginia physicians are accepting new Medicaid payments
- Medicaid primary care providers will receive a rate increase to Medicare rate level for calendar years 2013 and 2014

Appendix: PPACA Health Care Insured Increases

Medicaid Expansion Population and “Woodwork” Effect

As a result of the ACA, Virginia estimates 74,996 currently eligible children will enroll in Medicaid (“woodwork”). If Virginia chooses to expand Medicaid, an estimated 7,500 additional currently eligible children would be expected to enroll in Medicaid and 247,923 newly-eligible individuals would be likely to take up Medicaid coverage.

Appendix: Health Care Practitioner Shortages

Virginia Mental Health Professional Shortage Areas (HPSA) *

Note: HPSA Mental Health Professional Shortage Area designation uses different provider to population ratios depending on whether a psychiatrist or core mental health professional (psychiatrist, clinical psychologist, clinical social worker, psychiatric nurse specialist, family and marriage therapist).

Note: HPSA’s Medically Underserved Area/Population designation uses four variables: 1) ratio of primary medical care physicians per 1,000 population, 2) infant mortality rate, 3) percent of the population with incomes below the poverty level, and 4) percent of population age 65 or over.


**Appendix: Health Care Practitioner Shortages**

Virginia Medically Underserved Areas/Populations

HRSA MUA/P *

- Medically Underserved Area
- Medically Underserved Population
- Governor’s Medically Underserved Population

* Up-to-date designation data may be obtained from HRSA Shortage Designation Branch: http://bhpr.hrsa.gov/shortage/designations.aspx.

**Appendix: Collaborative Practice Legislation**

**HB 346 (2012) Nurse Practitioner Collaborative Practice Legislation**

- “Patient Care Team Physician” means a physician who is actively licensed to practice medicine in the Commonwealth, who regularly practices medicine in the Commonwealth, and who provides management and leadership in the care of patients as part of patient care team
- No requirement for MD to regularly practice at the same location
- Collaboration and consultation may be via telemedicine
- Ratios increased from 4:1 to 6:1
- Periodic review of patient records, no requirements for site visits
HB 1501 (2013) Pharmacist Collaborative Practice Legislation

- Clarifies with whom pharmacist may enter into agreement (adds nurse practitioners, PAs, and physician’s office)
- Patient must notify prescriber to opt out
- Prescriber may elect for patient to not participate by contacting pharmacist or documenting on prescription
- Clarifies agreement may be in writing or electronic
- Authorizes pharmacist to implement drug therapy following diagnosis by prescriber

Appendix: Health Care Workforce Resources

- Virginia Atlas
- Virginia Chartbook
- Department of Health Professions: Health Workforce Data Center
- Virginia Rural Health Resource Center
- National Center for the Analysis of Healthcare Data
## Appendix: Health Care Workforce Resources

### DHP Healthcare Workforce Data Center Current Surveys

- Assisted Living Facility Administrators
- Audiologists
- Certified Nurse Aides
- Clinical Psychologists
- Dental Hygienists
- Dentists
- Doctors of Osteopathy
- Licensed Clinical Social Workers
- Licensed Practical Nurses
- Licensed Professional Counselors
- Medical Doctors
- Nurse Practitioners
- Nursing Home Administrators
- Pharmacists
- Pharmacy Technicians
- Physical Therapists
- Physical Therapy Assistants
- Physician Assistants
- Registered Nurses
- Speech-Language Pathologists