Internal Medicine Training Programs

Categorical Internal Medicine
Primary Care Medicine
Women’s Health Medicine/Pediatrics
Preliminary Internal Medicine

Medical College of Virginia Campus of Virginia Commonwealth University
Program Vision, Mission, and Values

Vision

The Internal Medicine Residency Program at MCVH seeks to be a community of physicians-in-training committed to learning the art and science of medicine while providing the best possible medical care. Our housestaff will graciously accept the challenge of caring for the underserved, cultivate collegial relationships with each other, and mature as physicians and individuals.

Mission

♦ To produce compassionate physicians capable of delivering the highest quality medical care to their patients
♦ To create a collegial and supportive setting in which learning is exciting
♦ To prepare our housestaff for the practice of primary care or for competitive postgraduate training programs
♦ To prepare our housestaff for life-long learning in the context of a rapidly changing healthcare environment

Core Values

We are committed to the following principles in our daily learning, teaching, and care of patients:

♦ Diversity
♦ Teamwork
♦ Collegiality
♦ Flexibility
♦ Openness
♦ Trust
♦ Creativity
♦ Integrity
♦ Intellectual curiosity
♦ Joy of learning
**Program Accreditation Status**

Fully accredited by the Accreditation Council for Graduate Medical Education (ACGME)

**Residency Program Tracks**

**Preliminary Medicine**  
11 positions/year  
1-year program for those desiring a clinically rich general medicine experience before pursuing other specialties

**Categorical Internal Medicine**  
22 positions/year  
3-year traditional training program which provides excellent preparation for subspecialty fellowship training or community practice

**Primary Care Medicine**  
5 positions/year  
3-year program integrated with categorical medicine, focusing on cost-effective, evidence-based ambulatory practice, providing additional training through didactic elements, continuity clinics, and community rotations

**Women’s Health**  
4 positions/year  
3-year program providing broad-based clinical experience in Internal Medicine with a central focus on women’s health promotion, disease prevention and biopsychosocial issues

**Medicine/Pediatrics**  
6 positions/year  
4-year program that integrates Internal Medicine and Pediatrics, leading to board eligibility in both fields
Program Leadership

- Richard Wenzel, MD, MSc
  Department Chair

- Steven D. Freer, MD
  Program Director

  Rosa E. Fox
  Administrative Assistant

- Leanne Yanni, MD
  Associate
  Program Director

  Shelley Burns, MEd
  Program Administrator

  Maia Eckler, MS
  Program Coordinator

**Assistant Program Directors**

<table>
<thead>
<tr>
<th>Wendy Klein, MD</th>
<th>Suzanne Lavole, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women’s Health Track</td>
<td>Medicine/Pediatrics Track</td>
</tr>
<tr>
<td>Andras Mogyorosi, MD</td>
<td>Margaret Roberson, MD</td>
</tr>
<tr>
<td>VAMC</td>
<td>Intern Recruitment</td>
</tr>
</tbody>
</table>

**Chief Medical Residents 2002-2003**

<table>
<thead>
<tr>
<th>Michael Cannon, MD</th>
<th>Matt Hunninghake, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robin Obenchain, MD</td>
<td>John Zakaib, MD</td>
</tr>
</tbody>
</table>
Teaching Hospitals

- **Virginia Commonwealth University Medical College of Virginia**
  - One of the largest & most active teaching hospitals in the nation
  - Ranked in:
    - *The Best Hospitals in America*
    - *The Top 100 U.S. Hospitals*
    - US News & World Report’s *America’s Best Hospitals*

- **McGuire Veterans’ Affairs Hospital**
  - A flagship hospital of the VA System providing the full spectrum of primary care & specialty services

<table>
<thead>
<tr>
<th></th>
<th>MCV Hospitals Updated 10-02</th>
<th>McGuire VA Hospital Updated 10-02</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total beds</td>
<td>750</td>
<td>427</td>
<td>1177</td>
</tr>
<tr>
<td>Internal medicine beds</td>
<td>177</td>
<td>89</td>
<td>266</td>
</tr>
<tr>
<td>Average daily census</td>
<td>133</td>
<td>82</td>
<td>215</td>
</tr>
<tr>
<td>ER Visits</td>
<td>80,300</td>
<td>17,000</td>
<td>97,300</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>531,900</td>
<td>330,000</td>
<td>861,900</td>
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</table>
Fellowships & Postgraduate Programs Offered

Fellowships
- Addiction Medicine
- Allergy and Immunology
- Cardiology
- Cardiac Electrophysiology
- Immunology
- Endocrinology
- Gastroenterology
- General Internal Medicine
- Geriatrics
- Hepatology
- Hematology/Oncology
- Hospital Epidemiology
- Infectious Diseases
- Interventional Cardiology
- Nephrology
- Palliative Care
- Pulmonary/Critical Care
- Rheumatology

Postgraduate Programs
- Master of Public Health
- Master of Science in Healthcare Administration
- Master of Science in Epidemiology & Biostatistics

Housestaff

Intern Class Recruitment Statistics

<table>
<thead>
<tr>
<th>Intern Class</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
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<tr>
<td>Medical schools represented</td>
<td>22</td>
<td>21</td>
<td>28</td>
<td>23</td>
<td>30</td>
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<tr>
<td>Mean USMLE-1 score</td>
<td>219</td>
<td>218</td>
<td>220</td>
<td>220</td>
<td>216</td>
</tr>
<tr>
<td>Women</td>
<td>44%</td>
<td>39%</td>
<td>51%</td>
<td>44%</td>
<td>44%</td>
</tr>
<tr>
<td>Men</td>
<td>56%</td>
<td>61%</td>
<td>49%</td>
<td>56%</td>
<td>56%</td>
</tr>
<tr>
<td>Single</td>
<td>56%</td>
<td>62%</td>
<td>49%</td>
<td>53%</td>
<td>60%</td>
</tr>
<tr>
<td>Married</td>
<td>44%</td>
<td>38%</td>
<td>51%</td>
<td>47%</td>
<td>40%</td>
</tr>
<tr>
<td>Have children</td>
<td>8%</td>
<td>7%</td>
<td>10%</td>
<td>18%</td>
<td>14%</td>
</tr>
</tbody>
</table>
Housestaff

Top 3 Factors Attracting New Interns

<table>
<thead>
<tr>
<th>#1</th>
<th>Clinical Reputation</th>
<th>Clinical Reputation</th>
<th>Clinical Reputation</th>
<th>Clinical Reputation</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2</td>
<td>Housestaff &amp; Program Director</td>
<td>Academic Reputation</td>
<td>Housestaff &amp; Program Director</td>
<td>Housestaff &amp; Faculty Interaction</td>
</tr>
<tr>
<td>#3</td>
<td>Academic Reputation</td>
<td>Housestaff &amp; Program Director</td>
<td>Academic Reputation</td>
<td>Academic Reputation</td>
</tr>
</tbody>
</table>

➢ Large, diverse housestaff with 120 residents representing 38% of the nation’s medical schools

Albany Medical College  
Bowman-Gray School of Medicine  
Duke University  
East Carolina University  
Eastern Virginia Medical School  
George Washington University  
Georgetown University  
Indiana University  
Jefferson Medical College  
Loma Linda University  
Louisiana State University—New Orleans  
Louisiana State University—Shreveport  
Loyola University  
Medical College of Georgia  
Medical College of Ohio  
Medical University of South Carolina  
Ohio State University  
Pennsylvania State University  
SUNY—Buffalo  
SUNY—Stonybrook  
Texas A&M  
Texas Tech University  
Tulane University  
UMDNJ—New Jersey Medical School  
UMDNJ—Robert Wood Johnson  
University of Connecticut  
University of Florida  
University of Iowa  
University of Kansas  
University of Kentucky  
University of Louisville  
University of Minnesota  
University of Nebraska  
University of North Carolina  
University of Pittsburgh  
University of South Alabama  
University of South Carolina  
University of South Florida  
University of Tennessee  
University of Texas—Galveston  
University of Texas—Southwestern  
University of Virginia  
Virginia Commonwealth University  
Washington University in St. Louis  
West Virginia University

➢ 100% have graduated from LCME accredited medical schools

➢ 95% of housestaff are glad they matched at MCVH for residency*

➢ 95% of housestaff believe their opinions are important in program management*

*Annual Housestaff Surveys; 2000, 2001, 2002
Faculty

- 203 Internal Medicine faculty members
- All faculty appointed in the Department of Medicine
  - All subspecialties of Internal Medicine represented
  - General Internists comprise 25% of teaching faculty
- Balanced oversight and supervision
  - Over the last 3 years, 93% of housestaff judged interactions with attendings appropriate for their professional development*
    *Annual Housestaff Surveys; 2000, 2001, 2002
- Wide range of clinical & basic research endeavors
  - NIH-funded General Clinical Research Center
  - One of only 75 centers nationally, with both inpatient & outpatient research facilities
  - Massey Cancer Center is one of only 58 National Cancer Institute-designated cancer centers
  - >2,000 published papers over the past three years
## Monthly Rotations/Yearly Schedule

<table>
<thead>
<tr>
<th></th>
<th>R-1</th>
<th></th>
<th>R-2</th>
<th></th>
<th>R-3</th>
<th></th>
<th>TOTAL</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>C</td>
<td>PC</td>
<td>W</td>
<td></td>
<td>C</td>
<td>PC</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>General Medicine Ward</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>W</td>
</tr>
<tr>
<td>Hematology/Oncology Ward</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Medical ICU</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>--</td>
<td>--</td>
<td>1</td>
</tr>
<tr>
<td>Cardiac Care Unit</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Night Float</td>
<td>½</td>
<td>½</td>
<td>½</td>
<td></td>
<td>½</td>
<td>½</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Medicine Consults</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td></td>
<td>½</td>
<td>½</td>
<td>½</td>
<td>½</td>
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<tr>
<td>Primary Care Clinic</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>2½</td>
<td>½</td>
<td>½</td>
<td></td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>7</td>
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<tr>
<td>Community Office Practice</td>
<td>--</td>
<td>1</td>
<td>--</td>
<td></td>
<td>1</td>
<td>1</td>
<td>--</td>
<td>3</td>
</tr>
<tr>
<td>Didactic Block</td>
<td>--</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Breast Health</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td></td>
<td>--</td>
<td>1</td>
<td>--</td>
<td>1</td>
</tr>
<tr>
<td>Community Women’s Health</td>
<td>--</td>
<td>1</td>
<td>--</td>
<td></td>
<td>1</td>
<td>--</td>
<td>--</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>12</td>
<td>12</td>
<td>12</td>
<td></td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

C = Categorical  
PC = Primary Care  
W = Women's Health

**Note:**  
Categorical and Preliminary R-1 rotation schedules are identical.  
Some minor difference in schedules may occur from year to year.
Inpatient Medicine

➢ Team Call
  ◆ Attendings, residents, interns, and students work together as a team
  ◆ ACGME rules strictly followed
    ▪ 1 day off out of every 7
    ▪ <80 hour work week
    ▪ 10 hours between shifts
    ▪ 24+6 overnight call

<table>
<thead>
<tr>
<th></th>
<th>Arrival OnCall</th>
<th>Departure PostCall</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Call Resident</td>
<td>12pm</td>
<td>6pm</td>
<td>30</td>
</tr>
<tr>
<td>Long Call Intern</td>
<td>7am</td>
<td>1pm</td>
<td>30</td>
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</tbody>
</table>

➢ Number of admissions strictly capped
  ◆ Interns admit < 5 patients/night
  ◆ R2/R3s admit < 10 patients/night
  ◆ Team total census caps

➢ On-Call Frequency
  ◆ General Medicine Wards  every 5th night
  ◆ Critical Care Units    every 4th night
  ◆ Hematology-Oncology (R-1) every 4th night

➢ Daily Work Rounds
  ◆ Junior or senior resident leads initial planning and teaching for the service without ward attending presence

➢ Daily Attending Rounds
  ◆ Attending and the team work together for teaching and management
Inpatient Medicine (continued)

➢ **Active Hospitalist Service**
  ♦ Shares admission volume with the housestaff teaching service

➢ **Night float cross coverage intern**
  ♦ Provides cross-coverage at night for all teams except on-call team, decreases workload of on-call admitting team
  ♦ Allows independent clinical experience but upper level resident and unit back up available at all times

➢ **Night float admitting resident**
  ♦ Admitting overnight after long call team closes for admissions at 10pm
  ♦ Cap of 4 admissions

➢ **Limited Short Call**
  ♦ 1 day in 5, accepts overnight admissions from Night Float or daily admissions until 2pm
  ♦ Cap of 4 admissions

➢ **Procedure Team**
  ♦ Resident staffed team assists with procedures for post-call and other medicine ward teams
  ♦ Available to assist the post call team with patient responsibilities

➢ **No overnight call or inpatient coverage on elective rotations**
  ♦ Emergency Pull system limited to two 2 week blocks/year

➢ **Moonlighting Opportunities**
  ♦ Limited in-house opportunities for junior and senior residents
Inpatient Ward Schedule

Day 1
**Long Call**
Maximum Team
Admissions: 10
R-1: 5
R2/3: 10

Day 2
**Post-Call**
No Admissions

Day 3
**Off Day**
No Admissions

Day 4
**Short Call**
Maximum Team
Admissions: 4
R-1: 1
R2/3: 2

Day 5
**No Call**
No Admissions
Ambulatory Experience

All Residents R1-3

- Continuity clinic
  - ½ day during ward and ICU rotations
  - 1 full day during elective rotations

Categorical Residents

- Continuity sites
  - MCVH AD Williams Primary Care Clinic
  - McGuire VA Hospital Primary Care
  - R-1 Ambulatory Medicine Block
  - Electives available in Ambulatory Care

Primary Care and Women’s Health Residents

- Continuity Clinic Experience
- Ambulatory Didactic Block
- Primary Care Mental Health Clinic
- Fan Free Clinic in the Richmond Community
- Primary Care
  - Continuity Sites
    - MCVH
    - McGuire VA Hospital
    - Community Private Practice
- Women’s Health
  - Continuity Sites
    - MCVH
    - Women’s Health Clinic
    - Community Women’s Health Breast Health Block
Curriculum

Highlights

➢ 12 month didactic conference curriculum cycle
  ♦ A parallel lecture series at VA & MCVH reflecting a core curriculum in general & subspecialty medicine, women’s health, medical ethics, legal medicine, epidemiology, medical informatics, and managed care

➢ Electronic Curriculum
  ♦ A comprehensive, web-based curriculum for all core and elective rotations, containing references, journal articles, outlines and presentations, and other relevant materials; links directly through MDConsult to primary sources
  ♦ All inpatient team rooms and ambulatory care sites equipped with internet access

➢ Educational Materials Provided by the Program
  ♦ MKSAP purchased for all junior residents
  ♦ Subscription to MDConsults
  ♦ Subscription to UpToDate

Conference Schedule

➢ Required Teaching Conferences
  ♦ Morning Report (R2/R3) 3 days/week
  ♦ Core Curriculum Didactic Conference 3 days/week
  ♦ Chairman’s Conference (R1) weekly
  ♦ Primary Care Conference weekly
  ♦ Grand Rounds weekly
  ♦ Journal Club 2/month
  ♦ Clinical Skills Sessions 3/month
  ♦ Morbidity & Mortality Conference monthly
  ♦ Clinicopathologic Conference monthly
Conference Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>7:30</td>
<td>Morning Report</td>
<td>Journal Club Skills Sessions</td>
<td>Morning Report</td>
<td>Primary Care Conference</td>
<td>Morning Report</td>
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<tr>
<td>8:30</td>
<td></td>
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</tr>
<tr>
<td>9:30</td>
<td>Work Rounds</td>
<td></td>
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<tr>
<td>12:00</td>
<td>Didactic Conference</td>
<td>Chairman’s Conference</td>
<td>Didactic Conference</td>
<td>Grand Rounds</td>
<td>Didactic Conference</td>
</tr>
<tr>
<td>1:00</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daily Inpatient Work</td>
<td></td>
<td></td>
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</table>

Elective Rotations

- Elective rotations available in all subspecialties
  - Creative, nontraditional choices encouraged
- Off-site rotations
  - One month in R2/R3 year with full pay and benefits
- Research electives available and encouraged

Consultative Electives

- Cardiology
- Dermatology
- Endocrinology
- Gastroenterology
- Hematology/Oncology
- Hepatology
- Infectious Diseases
- Neurology
- Nephrology
- Palliative Care
- Pulmonary
- Rheumatology
- Toxicology

Ambulatory Electives

- Addiction Medicine
- Adolescent Medicine
- Asthma, Allergy & Immunology
- Cardiac Testing
- Geriatrics/Long-term care
- Orthopedics
- Primary Care Didactic Block
- Public Health
- Rheum/Endo Ambulatory Block
- Student Health
- Women’s Health/Breast Health
American Board of Internal Medicine Exam

- **Pass rate (graduating senior first time takers)**
  - 95% in 2002
  - 97% in 2001
  - 93% in 2000

- **Board preparation**
  - Integrated board review sessions - April through June
  - All R2’s provided with MKSAP for board preparation
  - Quarterly Board-Style Self-Paced independent knowledge extension tests (SPIKE)
  - In-Training Examination annually

Graduate Career Choices

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
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<tbody>
<tr>
<td>Primary Care</td>
<td>61%</td>
<td>42%</td>
<td>43%</td>
<td>37%</td>
</tr>
<tr>
<td>Hospitalist</td>
<td>5%</td>
<td>8%</td>
<td>3%</td>
<td>13%</td>
</tr>
<tr>
<td>Fellowship</td>
<td>34%</td>
<td>48%</td>
<td>54%</td>
<td>50%</td>
</tr>
</tbody>
</table>

Subspecialty Training Institutions 1996-2002

- Boston University
- Brown University
- Duke University
- Cleveland Clinic Hospitals
- Emory University
- George Washington University
- Georgetown University
- Harvard Medical School
- Indiana University
- Johns Hopkins University
- Medical College of Georgia
- Medical College of Virginia
- Medical University of S. Carolina
- National Institutes of Health
- New England Medical Center
- New York Medical College
- Ohio State University
- Pennsylvania State University
- St. Louis University
- Stanford University
- University of Alabama
- University of California, Los Angeles
- University of California, Davis
- University of Chicago
- University of Colorado
- University of Florida
- University of Louisville
- University of Maryland
- University of Missouri
- University of North Carolina
- University of Pennsylvania
- University of Pittsburgh
- University of South Florida
- University of Tennessee
- University of Virginia
- Vanderbilt University
- Wake Forest University
- Washington University
Graduate Medical Benefits

➢ **Annual Salary (2002-2003)**
  - R-1 $36,654
  - R-2 $37,954
  - R-3 $39,964
  - R-4 $40,919

➢ **Vacation**
  - R-1 3 weeks
  - R-2/3/4 3 weeks + 5-day December or January holiday

➢ **Insurance**
  - Malpractice
  - Health (family plan optional)
  - Dental (optional)
  - Disability
  - Life

➢ **On-call meal stipend**

➢ **Lab coats**

➢ **Subsidized parking**

➢ **6 hours tuition credit per semester for any Virginia Commonwealth University course**