DEPARTMENTAL TEACHING ACTIVITIES

The Student Teaching Program

Faculty members from all divisions of the department played a major role in the teaching of medical students throughout the four years of the curriculum.

Year 1 & Year 2

Internal medicine faculty served as course directors for three system-based modules of instruction during Year 2 of the curriculum. In addition, internal medicine provided the two course directors for the course on Death & Dying. Students completed an evaluation of each course in the curriculum, rating each on a 1-5 scale (5 being the highest score possible). Scores for academic year 2011-2012 are noted in the table.

<table>
<thead>
<tr>
<th>YEAR 2 COURSE</th>
<th>DIRECTOR(S)</th>
<th>2011-2012 OVERALL COURSE EVALUATION SCORE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Death and Dying</td>
<td>Erin Bakanas, M.D.</td>
<td>3.97</td>
</tr>
<tr>
<td>Gastrointestinal System</td>
<td>Jennifer LaBundy, M.D.</td>
<td>4.25</td>
</tr>
<tr>
<td>Renal &amp; Urinary System</td>
<td>Paul Schmitz, M.D.</td>
<td>4.38</td>
</tr>
<tr>
<td>Skin, Bone, and Joint</td>
<td>Katherine Temprano, M.D.</td>
<td>3.51</td>
</tr>
</tbody>
</table>

*Overall course quality rated on 1-5 scale, 1-unacceptable, 2-weak, 3-satisfactory, 4- very good, 5-excellent; every student did not rate every course.

The optimal score is actually unknown – sometimes “tougher” or more demanding courses are rated lower than less demanding courses.

Over the past several years Dr. Paul Schmitz of the Division of Nephrology consistently has provided the highest rated Year 2 module – Renal & Urinary System

In addition, internal medicine faculty taught in the following courses:

Year 1
- Microbes and Host Responses
- Metabolism
- Health Care Ethics
- Principles of Pharmacology
- Applied Clinical Skills 1

Year 2
- Respiratory Module
- Renal & Urinary System Module
- Endocrine & Reproductive Module
- Skin, Bone & Joint Module
- Cardiovascular System Module
- Gastrointestinal System Module
- Death and Dying
- Applied Clinical Skills 2
- Bedside Diagnosis
Year 1 & Year 2 Electives

Internal Medicine offered seven formal electives in Years 1 and 2 of the curriculum. Course titles and course directors include:

1. Introduction to Sleep Medicine  
   Course Directors: Joseph Espiritu (with Raman Malhotra of the Department of Neurology)
2. Geriatric Medicine Clinical Care  
   Course Directors: Julie Gammack, Joseph Flaherty, and Miguel Paniagua
3. Introduction to Allergy and Immunology  
   Course Director: James Temprano
4. Learning the Art of Medicine Through Life Stories  
   Course Director: Milta Little
5. Geriatric Medicine Research  
   Course Director: Joseph Flaherty
6. IM Continuity of Care  
   Course Directors: Various members of the Divisions of General Internal Medicine and Geriatrics
7. Health Resource Center  
   Course Director: John Morley

Year 3

The Internal Medicine Year 3 Clerkship remained 12 weeks in duration. Each student spent four weeks at Saint Louis University Hospital, four weeks on ambulatory internal medicine, and a final 4 weeks at a second inpatient site. 46-48 students were participating in the clerkship during each 12 week rotation.

Sites at Saint Louis University Hospital included the three general medicine teams (Red, Green and Yellow), the two geriatric medicine teams and subspecialty services in Cardiology, Hematology & Oncology, and Nephrology.

While rotating through Saint Louis University Hospital each student is assigned to a small (3-5 students) preceptor group to gain insights into the history and physical examination, differential diagnosis, and presentation skills in both oral and written formats. Faculty that served as small group preceptors for the 2011-2012 academic year included:

Lisa Alderson  
Fred Buckhold  
Sonia Chacko  
Bishnu Devkota  
Sharon Frey  
Michael Giacamin  
Geoffrey Gorse  
George Griffing
The department partners with several area hospitals and private practitioners to provide a high-quality education to our students during the Year 3 clerkship. The hospital partner sites and the site directors included:

1. St. Mary's Health Center – Morey Gardner
2. Mercy Health Center – Keith Starke
3. John Cochran VA Medical Center – Aditi Purandare
4. Des Peres Hospital – Joseph Flaherty

Ambulatory sites included the General Internal Medicine, Internal Medicine/Pediatric, Geriatric Medicine, and Acute Care practices at the Doctor’s Office Building at Saint Louis University, the VA Prime Clinic at John Cochran VA Medical Center, Des Peres, the University Club Tower, and Mercy Medical Center. In addition, the following private practitioners opened their offices to serve as student teachers in the community:

James Compton
Daniel Kramer
Sam Hawatmeh
Kathleen Brunts
Timothy Mahood
Joseph Ojile

Didactic sessions take place on selected Friday afternoons and included classroom teaching on the following topics:

**Interpretation of the ECG** – H. Douglas Walden
Chest X-ray Interpretation – Nora Porter
Polypharmacy – Joseph Flaherty
Medical Ethics – Erin Bakanas
Ambulatory Infectious Disease – Donald Kennedy
Osteoporosis, Falls and Hip Fractures – Lenise Cummings-Vaughn
Acid/Base Disturbances – Bahar Bastani
Ambulatory Allergy – Raymond Slavin
Issues in Diabetes Mellitus – H. Douglas Walden

Issues in Hypertension – H. Douglas Walden
The Physical Diagnosis of Liver Disease – Adrian DiBisceglie
Study Questions (Exam Preparation) – Nora Porter
The Physical Diagnosis of the Hematology/Oncology Patient – Paul Petruska
Case Presentation – Keith Starke
Interactive Unfolding Case – Miguel Paniagua
Clinical Images – Bishnu Devkota
The Physical Diagnosis of Liver Disease

Dr. Adrian M. Di Bisceglie

Students evaluate each of the seven core clerkships. Overall evaluation scores for 2011-2012 are presented below.

<table>
<thead>
<tr>
<th>Clerkship</th>
<th>Length (wks)</th>
<th>2011-2012 Overall Course Evaluation Score*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>6</td>
<td>4.15</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>12</td>
<td>3.98</td>
</tr>
<tr>
<td>Neurology</td>
<td>4</td>
<td>4.01</td>
</tr>
<tr>
<td>OB/GYN</td>
<td>6</td>
<td>3.66</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>8</td>
<td>3.95</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>4</td>
<td>3.83</td>
</tr>
<tr>
<td>Surgery</td>
<td>8</td>
<td>3.73</td>
</tr>
</tbody>
</table>

*Overall course quality was rated on a 1-5 scale, 1-unacceptable, 2-weak, 3-satisfactory, 4-very good, 5-excellent; Not every student rated every course.
The department offers 33 elective opportunities and thirteen sub-internship opportunities for Year 4 students. The course title, course director(s) and the 2011-2012 course rating are provided below.

<table>
<thead>
<tr>
<th>Elective Course #</th>
<th>Course Title</th>
<th>Course Director(s)</th>
<th>2011-2012 Course evaluation score*</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 406</td>
<td>St Mary's MICU</td>
<td>Stephen Osmon and Morey Gardner</td>
<td>4.22</td>
</tr>
<tr>
<td>IM 407</td>
<td>Allergy &amp; Immunology</td>
<td>James Temprano</td>
<td>4.50</td>
</tr>
<tr>
<td>IM 409</td>
<td>Cardiovascular Disease</td>
<td>Michael Lim</td>
<td>4.27</td>
</tr>
<tr>
<td>IM 410</td>
<td>Cardiology (VA)</td>
<td>Alan Maniet</td>
<td>4.17</td>
</tr>
<tr>
<td>IM 413</td>
<td>Clinical Endocrinology</td>
<td>Stewart Albert</td>
<td>4.17</td>
</tr>
<tr>
<td>IM 414</td>
<td>Hematology &amp; Medical Oncology</td>
<td>Paul Petruska and Ganesh Kudva</td>
<td>3.86</td>
</tr>
<tr>
<td>IM 415</td>
<td>Clinical Infectious Diseases</td>
<td>Donald Kennedy and Robert Belshe</td>
<td>4.33</td>
</tr>
<tr>
<td>IM 417</td>
<td>Nephrology</td>
<td>Paul Schmitz</td>
<td>4.13</td>
</tr>
<tr>
<td>IM 419</td>
<td>Pulmonary Medicine</td>
<td>David Stoeckel</td>
<td>4.33</td>
</tr>
<tr>
<td>IM 420</td>
<td>Clinical Rheumatology</td>
<td>Katherine Temprano and James Temprano</td>
<td>-</td>
</tr>
<tr>
<td>IM 421</td>
<td>Introduction to Outpatient Clinical Hepatology</td>
<td>Brice Bacon</td>
<td>4.30</td>
</tr>
<tr>
<td>IM 422</td>
<td>Introduction to Geriatric Medicine</td>
<td>John Morley</td>
<td>-</td>
</tr>
<tr>
<td>IM 424</td>
<td>Immune System Disorder</td>
<td>Terry Moore and Raymond Slavin</td>
<td>4.38</td>
</tr>
<tr>
<td>IM 425</td>
<td>Consultative Internal Medicine</td>
<td>Thomas Olsen</td>
<td>4.00</td>
</tr>
<tr>
<td>IM 427</td>
<td>Interpretation of the Electrocardiogram</td>
<td>H. Douglas Walden and Nora Porter</td>
<td>4.02</td>
</tr>
<tr>
<td>IM 428</td>
<td>Ambulatory Medicine</td>
<td>Thomas Olsen</td>
<td>4.22</td>
</tr>
<tr>
<td>IM 429</td>
<td>Ambulatory Practice - Med/Peds</td>
<td>Nora Porter</td>
<td>3.86</td>
</tr>
<tr>
<td>IM 431</td>
<td>Cardiac Auscultation</td>
<td>H. Douglas Walden and</td>
<td>4.15</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>IM 432</td>
<td>Who's Buying Lunch?</td>
<td>Erin Bakanas and H. Douglas Walden</td>
<td>4.00</td>
</tr>
<tr>
<td>IM 433</td>
<td>Inpatient Gastroenterology &amp; Hepatology</td>
<td>Adrian Di Bisceglie</td>
<td>-</td>
</tr>
<tr>
<td>IM 435</td>
<td>Non-Invasive Cardiology</td>
<td>Alan Maniet</td>
<td>-</td>
</tr>
<tr>
<td>IM 436</td>
<td>EKG Interpretation (VA)</td>
<td>Alan Maniet</td>
<td>4.00</td>
</tr>
<tr>
<td>IM 437</td>
<td>Geriatric Care in China</td>
<td>Joseph Flaherty and Qun Fang Ding</td>
<td>4.83</td>
</tr>
<tr>
<td>IM 439</td>
<td>Hospice and Palliative Medicine</td>
<td>Miguel Paniagua and Joseph Flaherty</td>
<td>4.80</td>
</tr>
<tr>
<td>IM 440</td>
<td>SLU Chronic and Transitional Care</td>
<td>Miguel Paniagua and Asif Bhutto</td>
<td>-</td>
</tr>
<tr>
<td>IM 441</td>
<td>Preparation of Clinical Cases for Presentation</td>
<td>Nora Porter and H. Douglas Walden</td>
<td>-</td>
</tr>
<tr>
<td>IM 442</td>
<td>Clinical Gastroenterology and Hepatology at St. Anthony’s</td>
<td>James Dimitroff</td>
<td>-</td>
</tr>
<tr>
<td>IM 443</td>
<td>Infectious Disease at St. Anthony’s</td>
<td>Suresh Nellore and Rajashree Gottimukkala</td>
<td>4.33</td>
</tr>
<tr>
<td>IM 444</td>
<td>Hematology/Oncology at St. Anthony’s</td>
<td>R. William Morris and</td>
<td>-</td>
</tr>
<tr>
<td>IM 445</td>
<td>Hospice and Palliative Care at St. Anthony’s</td>
<td>Edward Burns</td>
<td>-</td>
</tr>
<tr>
<td>IM 446</td>
<td>Nephrology and Hypertension at St. Anthony’s</td>
<td>Nicholas Gourtzelis</td>
<td>-</td>
</tr>
<tr>
<td>IM 447</td>
<td>Cardiology at St. Anthony’s</td>
<td>David Dobmeyer</td>
<td>-</td>
</tr>
<tr>
<td>IM 448</td>
<td>Physical Medicine and Rehabilitation at St. Anthony’s</td>
<td>Jenny Page and Harmeen Chawla</td>
<td>-</td>
</tr>
<tr>
<td>SUB 403</td>
<td>SLU Hospital General Medicine Subinternship</td>
<td>H. Douglas Walden and Nora Porter</td>
<td>4.31</td>
</tr>
<tr>
<td>SUB 404</td>
<td>John Cochran VA Subinternship</td>
<td>Aditi Purandare</td>
<td>4.00</td>
</tr>
<tr>
<td>SUB 405</td>
<td>Mercy Hospital Subinternship</td>
<td>Jacqueline Fairchild</td>
<td>4.56</td>
</tr>
<tr>
<td>SUB 406</td>
<td>St Mary’s Health Center Subinternship</td>
<td>Morey Gardner</td>
<td>4.75</td>
</tr>
</tbody>
</table>
### DEPARTMENTAL TEACHING ACTIVITIES

| SUB 407 | SLU Hospital Hem-Onc Subinternship | Paul Petruska | - |
| SUB 408 | SLU Hospital Geriatric Subinternship | John Morley and Joseph Flaherty | - |
| SUB 426 | SLU Hospital GI Subinternship | Charlene Prather | 3.71 |
| SUB 427 | SLU Hospital Cardiology Subinternship | Michael Lim | 4.40 |
| SUB 428 | SLU Hospital Nephrology Subinternship | Kevin Martin | - |
| SUB 430 | SLU Hospital Critical Care Medicine | David Stoeckel and Carl Kaplan | 4.00 |
| SUB 432 | Critical Care Medicine at St. Anthony's | Nimish Nemani and Nat Levy | - |
| SUB 433 | Critical Care Medicine at Mercy Hospital | Robert Taylor and Michael Cox | - |
| SUB 434 | Advanced Clerkship in Internal Medicine at St. Luke's Hospital | Leon Robison and Fred Balis | - |

*Overall course quality rated on 1-5 scale, 1-unacceptable, 2-weak, 3-satisfactory, 4-very good, 5-excellent; every student did not rate every course. No rating is provided if an insufficient number of students provided an evaluation.

### Year 4 Primary Care Capstone

In the spring of Year 4 the School of Medicine offers opportunities for students to take one of four elective capstone rotations. Each of these capstones provides skills and knowledge in preparation for residency training.

The Primary Care Capstone directors are Nora Porter and James Deckert (of Family Medicine). The Primary Care Capstone has consistently been the highest rated and best subscribed of all Year 4 capstones. Topics covered included cross coverage, acid-base abnormalities, ECG interpretation (adult and pediatric), radiology, telephone medicine, diabetes management, end of life care, dermatology, analysis of body fluids, transitions of care, pharmaceutical company interactions, morning report and procedural skills (using the simulation lab). Departmental faculty that taught in the Primary Capstone in 2011-2012 included:

- H. Douglas Walden
- Nora Porter
- Miguel Paniagua
- Milta Little
- George Griffing
- Erin Bakanas
Five new clinical electives at St. Anthony’s Hospital were offered in 2011-2012 in GI/Hepatology, Hematology/Oncology, Palliative Care, Nephrology, and Hospice Care.

Seven new three-week sub-internship opportunities were also made available in the wards and intensive care unit of St. Anthony’s Hospital and in the intensive care unit at Mercy (St. John’s) Medical Center.

Co-Directors of the Internal Medicine Clerkship
Dr. Nora Porter
Dr. H. Douglas Walden
Graduate Medical Education

The Department of Internal Medicine had the following ACGME-approved residencies or subspecialty programs:

- Internal Medicine (Categorical)
- Internal Medicine Preliminary
- Combined Internal Medicine and Pediatrics
- Subspecialty Residency Training Programs
  - Allergy and Immunology
  - Cardiovascular Diseases
  - Critical Care Medicine
  - Endocrinology, Diabetes and Metabolism
  - Gastroenterology
  - Hematology and Medical Oncology
  - Interventional Cardiology
  - Infectious Disease
  - Nephrology
  - Pulmonary Disease and Critical Care Medicine
  - Rheumatology

In addition, we offer the following fellowships:
  - Advanced Geriatric Medicine
  - Liver Cancer and Liver Transplantation

The department of internal medicine represents the largest training program in the School of Medicine. The table below shows the number of residents, subspecialty residents and fellows in 2012, by program.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>DIRECTOR</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Medicine Categorical</td>
<td>Paniagua</td>
<td>26</td>
<td>28</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Internal Medicine Preliminary</td>
<td>Paniagua</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal Medicine and Pediatrics</td>
<td>Maxwell</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Allergy and Immunology</td>
<td>Knutsen</td>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Cardiovascular Diseases</td>
<td>Lim</td>
<td>4</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Critical Care Medicine</td>
<td>Taylor</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Endocrinology, Diabetes and Metabolism</td>
<td>Albert</td>
<td>2</td>
<td>2</td>
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<td></td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>Prather</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Geriatric Medicine</td>
<td>Gammack</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hematology and Medical Oncology</td>
<td>Petruska</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Interventional Cardiology</td>
<td>Lim</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infectious Disease</td>
<td>Kennedy</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
On June 2nd 2012, the department celebrated the 29th annual graduation of the Internal Medicine and Combined Internal Medicine and Pediatrics Residency programs. Those completing their training were:

**Internal Medicine**
- Camille Adeimy, M.D.
- Michael Ansstas, M.D.
- Wasseem El-Aneed, M.D.
- Mireille El Hayek, M.D.
- Zaher Fanari, M.D.
- Seyed Ali Gaskari, M.D.
- Kathryn R. Henderson, M.D.
- Liliane Antione Hobeika, M.D.
- Gayla Jackson, M.D.
- Naveenkumar B Krishna, M.D.
- Robbie Thomas Mangalasseril, M.D.
- Ghasan Adnan Mohsen, M.D.
- Brian August Reichardt, M.D.
- Angela Marie Sanford, M.D.
- Michael Sanley, M.D.
- Rupinder K. Sodhi, M.D.
- Irfana Haq Soomro, M.D.
- Merin Elizabeth Sunny, M.D.
- Thanh-Mai Vo, M.D.
- Giao Vuong, M.D.

**Internal Medicine/Pediatrics**
- George Kasarala, M.D.
- Anilkumar Katta, M.D.
- Adnan Khan, M.D.
- Bhanu Sankineni, M.D.

In addition, the department has a number of post-doctoral fellows receiving training in research:

**Gastroenterology and Hepatology**
- Weiluh Wang, M.D., Ph.D.
- Ornella de Bari, M.D., Ph.D.
- Chang-Nyol Paik, M.D., Ph.D.
- Steven Truscott, Ph.D.
- Mei Xia, Ph.D.
- Jidong Zhang, M.D., Ph.D.

**Infectious Diseases, Allergy and Immunology**
- Arup Banerjee, Ph.D.
- Yi Huang, Ph.D.
- Hangeum Kim, Ph.D.
- Gu Ling, Ph.D.
- Chunling Ma, Ph.D.
- Budhaditya Mazumder, Ph.D.
- Huan Ning, M.D.
- Isaac Sakala, Ph.D.