2009 Medicine Annual Report

Christiana Care Department of Medicine's first “electronic” annual report.

Featured are our key facts and figures and highlights from our sections, including some of the honors and awards earned during the last fiscal year, recent appointments and committee memberships.
Chair’s Message

Welcome to our first “electronic” annual report of accomplishments within the Department of Medicine. Featured are key facts and figures and highlights from our sections, including some of the honors and awards garnered during the last fiscal year, recent appointments and committee memberships.

Our Department continues to earn national recognition. In 2008, U.S. News and World Report ranked Christiana Care among the top 50 hospitals nationwide for services in Gastrointestinal Disorders and Endocrinology. For optimizing the number of tests internists order and the amount of time patients spend on inpatient medicine services, Christiana Care earned a 2009 Healthcare Advantage Award from Thomson Reuters, a nationally known provider of health information.

From HealthGrades, a leader in health care measurements, we earned the 2008 Distinguished Hospital Award for Clinical Excellence. Led by achievements from the Department of Medicine, we ranked #1 in Delaware for Overall Cardiac Care, Cardiology Services and Coronary Interventional Procedures and Overall Pulmonary Services; rated five-stars for Treatment of Stroke and Treatment of Sepsis; and earned HealthGrades’ Pulmonary Care Excellence Award and the Gastrointestinal Excellence Award.

Our leadership in clinical, translational and outcomes research continues to support outstanding patient care through the timely transition of new diagnostic and therapeutic techniques to our clinical practices. There are 82 different research projects underway in the Department in infectious diseases, pulmonary care, critical care, hematology, diabetes and metabolic disease, internal medicine and hypertension.

Excellence in research and patient care has afforded outstanding training opportunities and the recruitment of top clinical leaders as faculty and mentors. Graduate medical education remains strong for both combined and categorical programs. Our board pass rate for 2008 was 100 percent among our Internal Medicine, Medicine-Pediatrics and Emergency Medicine-Internal Medicine graduates. Our Categorical Internal Medicine Residency, Cardiology Fellowship and Transitional Year programs are all on five-year accreditation cycles, the best possible outcome from an ACGME review. Fellowship opportunities are expanding. Our Cardiology Fellowship increased from two to four slots per year this year, and in July 2009 a Nephrology Fellowship was initiated.

We are also training an increasing number of second and third year medical students from Jefferson Medical College, as well as fourth year students from Jefferson and other medical schools throughout the United States. In FY ’09, 223 students rotated through the Department of Medicine.

We are working hard to meet the challenges of an evolving health care environment and to support the role of the individual physician within a team-based approach to care. The Department is committed to playing a key role in transforming the care we provide to patients. As we create the future of Medicine, we continue to focus on excellence in clinical care, education and research. Many thanks to the many physicians in the Department who have contributed countless hours in service to the Department and the health system in support of this mission.

Virginia U. Collier, M.D., FACP
Hugh R. Sharp Jr. Chair of Medicine
Medicine Facts & Figures

The Department of Medicine has an attending staff of approximately 439 physicians and oversees about 500 of the 1,150 beds in Christiana Care hospitals. In FY 09, attendings from the Department discharged almost 20,000 patients. Our medical staff provides excellent care to a diverse patient mix. Collectively, we diagnose and treat a broad spectrum of primary-care diseases, as well as tertiary care medical conditions not routinely encountered in smaller hospital settings.
Academic Programs

The Department sponsors the Categorical Internal Medicine Residency Program, along with two combined programs (Medicine-Pediatrics and Emergency Medicine-Internal Medicine), a one-year Preliminary Medicine program, and a Transitional Year program. A strong academic curriculum combined with extensive "hands-on" training offers an outstanding residency experience. Well over 100 faculty and volunteer attending physicians are committed to training the next generation of clinicians and physician leaders in both inpatient and outpatient settings.

Class of 2008-2009

<table>
<thead>
<tr>
<th>Program</th>
<th>Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Medicine Categorical</td>
<td>29</td>
</tr>
<tr>
<td>Internal Medicine Preliminary</td>
<td>6</td>
</tr>
<tr>
<td>Medicine-Pediatrics</td>
<td>18</td>
</tr>
<tr>
<td>Emergency Medicine/Internal Medicine</td>
<td>15</td>
</tr>
<tr>
<td>Transitional Year</td>
<td>9</td>
</tr>
<tr>
<td>Direct Pathway</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL Residents</td>
<td>79</td>
</tr>
</tbody>
</table>

Internal Medicine
We prepare graduates of the Internal Medicine Residency Program well for the challenges of providing high quality, compassionate, and cost-effective care whether as primary care physicians, hospitalists, or specialists. As many as 40 percent choose to practice in Delaware.

Fellowships
Expanding fellowship opportunities strengthen our standing as a respected academic center.

Our Cardiovascular Disease Fellowship has nine active fellows with the addition of a research fellow this year. An interventional cardiology fellowship was recently approved by the Internal Medicine Residency Review Committee, and the Department welcomed the first fellow in July, 2009.

A Nephrology fellowship provides superior hands-on training, including experience in Delaware’s only adult transplant program. Six months of the fellowship are devoted to research. The first Nephrology fellow arrived in July 2009.

Medical Students
The Department of Medicine continued to be an integral part of the Jefferson Medical College student program. In 2008, 38 second year, 62 third year, and 77 fourth year students, 57 third year students and 128 fourth year students rotated through the Department. In addition, 78 students from 7 medical schools throughout the United States as well as students from 4 medical schools abroad did fourth year medical student clerkships here.

Undergraduate Students

University of Delaware Medical Scholars Program
Through the Medical Scholars Program, offered in conjunction with Jefferson Medical College, the Department introduced three qualified undergraduate students to clinical medicine. The Internal Medicine practicum emphasizes the social aspect of patient care management.

International Exchange
During the past year the Department of Medicine was proud to welcome three international guests. Dr. Yomi Okonola, nephrology specialist, Division of Dialysis, Hypertension and Transplant Services, Lautech Teaching Hospital, Osogbo, Nigeria, visited as an American College of Physician International Exchange Fellow for two months during the fall of 2008. He worked with Director of Operations Claudine Jurkovitz, M.D., at the Christiana Care Center for Outcomes Research and with Stephanie Gillbert, M.D., Skip Kuhn, M.D. and Arun Malhotra, M.D. in both inpatient and outpatient settings. During his visit Dr. Okonola presented "Medical Experiences in Nigeria" at Resident Core Lecture.

Rodrigo Cruz Navea, a sixth year medical student from the Universidad del Desarrollo in Santiago, Chile, and president of the Council of Student Members of the Chili ACP Chapter, spent five weeks completing a medical observership within the department in the winter of 2009. His visit included shadowing Gerald O’Brien, M.D., in the Christiana Hospital MICU and David Salerno, M.D., in the Wilmington Hospital Intensive Care Unit;
participating in Chief Rounds with Assistant Chief of Service Jennifer Genuardi, M.D.; attending the fourth year medical student preceptor meetings led by Neeta Milasincic, M.D.; and observing in the CICU, pediatrics, Emergency Department and the Adult Medicine Office.

Beat Frauchiger, M.D., professor of Internal Medicine and Angiology and head physician and medical director of the Clinic of Internal Medicine, Cantonal Hospital, Frauenfeld, Switzerland, spent time here while on sabbatical in April, to learn more about residency education, clinical information systems and quality management. He met with Robert Dressler, M.D., Julie Silverstein, M.D., Timothy Gardner, M.D., and Tabassum Salam, M.D. as well as participating in resident rounds with Matt Burday, D.O., Diane Bohner, M.D., and Brian McGillen, M.D. He participated in many other residency program activities including presenting at Resident Core Lecture "The Health Care System and Medical Education in Switzerland."
Section Highlights

**Cardiology**
Experience makes Christiana Care a leader in the region for heart and vascular care.

**Dermatology**
Annual skin screenings detect early cancers
Members of the Section of Dermatology organized and staffed the Annual Skin Cancer Screening Program with Christiana Care's Community Health Outreach & Education Program and the American Academy of Dermatology, Delaware Chapter, screening 196 patients over two evenings at the Helen F. Graham Cancer Center.

**Endocrinology**
For the second year in a row, *U.S. News and World Report* placed Christiana Care among America's top 50 hospitals in 2008 for services in Endocrinology. Only three percent of hospitals made the annual listing.

**Annual Diabetes Symposium**
A record 165 people turned out for the 13th Annual Christiana Care Diabetes Symposium in May at the John H. Ammon Medical Education Center, a popular full-day educational event.

**Gastroenterology**
Regional Referral Center for GI Services
Christiana Care gastroenterologists provide a comprehensive array of diagnostic, therapeutic and consultative gastrointestinal services to patients. Our GI Lab, recognized as a regional endoscopy referral center, performed more than 9,000 procedures last year to diagnose and treat patients with problems in the digestive track, liver, gallbladder, bile ducts or pancreas. Our gastroenterologists are trained in advanced techniques such as advanced therapeutic endoscopic retrograde cholangiopancreatography (ERCP), Barrett's ablation therapy, and endoscopic ultrasound (EUS).

New GI Suite
In April, 2009, the Roxana Cannon Arsht Surgicenter on the Wilmington Campus opened a new, dedicated GI endoscopy suite for outpatient upper endoscopies and colonoscopies.

EUS Expertise Helps Cancer Patients
In collaboration with the Christiana Care Helen F. Graham Cancer Center, patients benefit from our expertise using endoscopic ultrasound (EUS) to diagnose and stage upper GI and pancreatic cancers. With EUS, doctors have the potential to diagnose and characterize GI tumors or other abnormalities without surgery. Therapeutically, EUS tracking makes it easy to perform celiac blocks to relieve pain or deliver other medications and to guide the latest Cyberknife® Robotic Radiosurgery System, a noninvasive approach to destroying cancer cells.

**Geriatrics**
Bridge Program helps seniors post discharge
The Bridge Program, initiated in 2008, takes a proactive approach to helping senior patients stay healthy after they leave the hospital. This multidisciplinary collaborative that includes Internal Medicine, Family and Community Medicine. Social Work and Utilization Management offers a continuum of services for seniors to stay on track with medical care and services and to reduce the need for hospital readmissions. A house call program augments the work of existing senior centers in New Castle and Wilmington by ensuring elderly people who are housebound have access to health care.

New delirium prevention guidelines
New delirium guidelines rolled out in September 2008 focus on prevention and appropriate treatment for delirium patients and foster better communications through a team-based approach. The interdisciplinary Delirium Care Management Guidelines Team, which worked for over a year to develop the new guidelines, included representatives from Geriatrics, Internal Medicine, and Critical Care in the Department of Medicine.

ACE Unit improves outcomes for seniors
The 11-bed ACE Unit for Acute Care of the Elderly opened on the Wilmington Campus in 2008. Based on an existing program at Christiana Hospital, the unit addresses specific concerns of patients age 70 and older who may be more susceptible to falls and pressure wounds or may be cognitively impaired. ACE nurses receive special training in providing care to older patients. The concept serves an increasing population of especially frail patients coming to the hospital from nursing homes and helps to decrease their hospital length of stay and potential loss of Medicaid-held nursing home beds. Complications associated with geriatric syndromes are also less frequent: patients over the past year experienced zero pressure ulcers, zero restraint use and decreased falls, less Foley use and safer medication regimens.
**Hematology**

**Bone Marrow Transplant Program reaccredited**

Christiana Care’s Bone Marrow/Stem Cell Transplant Program earned three-year reaccreditation by the Foundation for the Accreditation of Cellular Therapy (FACT) in 2008. Ours is the only FACT-accredited program in Delaware and one of only 69 in the United States and Canada. Accreditation demonstrates adherence to rigorous standards for the collection, processing and transplantation of bone marrow and stem cells. Doctors at Christiana Care have performed more than 500 transplants in the program’s 18-year history, including 31 transplants in 2008. This year, doctors also performed 41 harvests, many of which were for the National Marrow Donor Program securing stem cells from unrelated donors around the world.

**Hemophilia Treatment Center**

Christiana Care's Hemophilia Treatment Center provides comprehensive care and preventive services to more than 200 patients with bleeding disorders. Supported by the Centers for Disease Control and Prevention, the Center offers home therapy, after-hours emergency coverage and coordination for in-hospital care, as well as education and support services for patients and their families.

**Generating new knowledge**

Research activities nationally include Cancer and Acute Leukemia Group B (CALGB) and Eastern Cooperative Oncology Group (ECOG) studies sponsored by the National Cancer Institute as well as those sponsored by the National Marrow Donor Program, the Center of International Blood and Marrow Transplant Research, and the Blood and Marrow Transplant Clinical Trials Network. Section members also participate in selected pharmaceutical industry clinical trials and national hemophilia protocols.

**Infectious Diseases**

**Annual Holloway Symposium**

The Annual Infectious Diseases Symposium initiated in 1963 by the late William J. Holloway, M.D., continues to attract large audiences and a roster of nationally recognized speakers, offering up-to-date reviews on current infectious disease problems plus new information on diagnosis and treatment.

**Infectious Disease Conferences**

A popular infectious disease noontime conference series held twice monthly involves house staff and community physicians in the differential diagnosis of challenging cases. The Pathology Service and Microbiology staff are key contributors.

**Study tests vaccine to fight infections after heart surgery**

Infectious disease specialists teamed with cardiac surgeons to test a vaccine to prevent antibiotic-resistant infections including methicillin resistant Staphylococcus aureus (MRSA), a common cause of post-operative infections that develop around surgical incisions and can produce grave consequences. Christiania Care is one of only seven sites worldwide participating in the clinical trial.

**Clinic provides top notch care for HIV patients**

The Christiana Care HIV Program, a major provider of HIV medical services throughout Delaware and the region since 1986, operates six clinical sites around the state (four in New Castle County and one each in Kent and Sussex Counties). Although the majority of patients live well below the federal poverty level, 75 percent have an undetectable HIV viral load. The HIV program provides comprehensive medical care for HIV infection as well as services to address medical, psychiatric and women's health needs. In 2008, the program provided treatment and services to 1,440 HIV-positive individuals.

**Hospital infections fall below national rates**

Thanks to the efforts of our Infection Control team, infection rates among hospital patients have fallen below national averages. Efforts are ongoing to lower infection rates even further and to address safeguards against MRSA transmissions.

**Internal Medicine**

**Caring for the community**

The General Internal Medicine Section provides inpatient care at both Christiana and Wilmington hospitals. Outpatient clinical care sites include the Health Care Center at Christiana, the Internal Medicine Faculty Practice at Wilmington Hospital and the Adult Medicine Office and the HIV Program at the Wilmington Hospital Health Center.

The Adult Medicine Office, with approximately 14,000 visits annually, provides a continuum of care and services for patients regardless of ability to pay. The office is also an important teaching site for residents, who provide clinical care and preventive services as well as ongoing disease management. Services include clinical pharmacist coordinated programs for hypertension; smoking cessation and medication adherence; chronic pain management; psychiatric consultative services; anticoagulation therapy monitoring; and community outreach and education programs. Specialized services for women, provided through the region’s only National Community Center of Excellence in Women’s Health at Christiana Care, include programs to improve nutrition, physical fitness, and weight control, overall health and preventive care teaching.

**Division of Hospital Medicine**

During FY 09, two private hospitalist groups cared for inpatients on the medicine service: Christiana Medical Group (CMG) and IPC (IPC – The Hospitalist Company). CMG, with approximately 19 FTEs, served as admitting and discharging attending for 6,877 inpatients, and IPC, with approximately 15 FTEs, served as admitting and discharging attending for 6,885 inpatients. Both groups also accepted a number of inpatients in transfer from other services such as the MICU, Trauma, and Surgical Services, and performed a variety of inpatient medicine consultations for non-medicine services. CMG and IPC both exceeded the benchmark standards for Joint Commission and CMS performance measures. Physicians from each group also responded to concurrent coding queries at approximately 90 percent, which contributed to timely and accurate coding of inpatient diagnoses.
In FY 09 both hospitalist groups had representatives who actively served on important departmental and Christiana Care committees, including the Professional Excellence (Peer Review) Committee, the SC Acute Care Transformation Innovation Project Committee, the Bed Management Committee, and Co-Management discussions with the ED, Neurosurgery, OB-GYN, Pediatrics, and Interventional Radiology.

In September, 2008 Joanne Brice, managing physician of CMG was elected as chief of the Division of Hospital Medicine and assumed leadership of the monthly hospitalist meetings. She also was named as a member of the Department of Medicine Executive Committee.

Medical Oncology

State-of-the-art cancer care driven by best practices and the latest research comes from multidisciplinary teams of professionals in private practice and at the Helen F. Graham Cancer Center, a select NCI Community Cancer Center Program.

Medicine/Pediatrics

The Med-Peds section has 19 active members in New Castle County serving as Christiana Care pediatric hospitalists, as medicine-pediatrics outpatient physicians at the Wilmington Hospital Health Center and the HealthCare Center at Christiana, and in primary care Med-Peds and related specialty practices throughout the community. A robust research program that includes ambulatory medicine and clinical outcomes research activities brings the latest knowledge to benefit patient care through publications and presentations at national and international meetings. Med-Peds physicians are active in support of the community and their specialty, winning both local and national awards for leadership and service.

Neurology

Stroke program seeks certification

Christiana Care's Stroke Program is working to become the first and only Primary Certified Stroke Center in Delaware, pending a site visit from the Joint Commission in the next few months. The Joint Commission's Primary Stroke Center Certification is a relatively new initiative that set performance standards in 2008 for stroke care based on combined recommendations from the Brain Attack Coalition, the Paul Coverdell National Acute Stroke Registry and American Heart Association /American Stroke Association "Get with the Guidelines" program, in which Christiana Care participates. Certification reflects performance achievement and continuous improvement in the timing and quality of acute stroke treatment, as well as the quality of leadership, teamwork and resources dedicated to stroke care, education, rehabilitation and prevention.

Sleep Disorders Center at Christiana Care earns reaccreditation

Christiana Care's Sleep Disorders Center earned five-year reaccreditation from the American Academy of Sleep Medicine (AASM), meeting the highest standards of quality and patient safety for the treatment of sleep and sleep-related breathing disorders. Established in 1997 and first in the state to be accredited, the Sleep Disorders Center is staffed by board-certified sleep specialists who are experienced in treating sleep problems, Â· including insomnia, sleep apnea, narcolepsy, and other disorders.

Nuclear Medicine

Technological advances against cancer

Nuclear medicine continues to employ the latest technologies against cancer with the installation of the Siemen's Biograph 64 PET/CT scanner, used to diagnose and stage cancers and precisely plan external beam radiation treatments. Accreditation of the Positron Emission Tomography (PET) section by the Cancer and Leukemia Group B, a national clinical research group sponsored by the National Cancer Institute, opens the way for participation in more cancer clinical trials. The section is among an elite few nationwide participating in the clinical trial of an Yttrium-90 labeled monoclonal antibody therapy for patients with advanced carcinoma.

Pain Management/Palliative Care

Relieving pain and suffering

There is good evidence that providing effective treatment strategies to help patients manage pain both improves their quality of life and shortens their hospital length of stay. In addition, pain and palliative care programs result in more and timelier hospice referrals, fewer inappropriate resuscitative efforts (codes) and fewer ethics consults, and thus improve overall quality of care. Our inpatient consult service provided pain management and palliative care to 1,310 patients at Christiana and Wilmington Hospitals in FY 2009, an increase of 302 patients (23%) from the previous year. A separate Oncology Rehabilitation program provides palliative care and symptom management, through bedside and unit based therapies for cancer patients, including physical therapy, medications, self-directed exercise, counseling and support groups.

Pulmonary Medicine/Critical Care

New outpatient service for pulmonary hypertension

Patients with pulmonary hypertension can now access essential care and services at Christiana Hospital. Non-invasive testing, pulmonary function testing and infusion services and management are available at the new Cardiovascular Specialty Services Suite. A multidisciplinary team offers patients the latest complex medical treatments for the treatment of pulmonary hypertension and cutting-edge or investigational treatments through participation in industry-sponsored clinical trials. A similar model is under development for a Pulmonary Rehabilitation Clinic.

Soaring to new heights

A new service from the Pulmonary Function Lab at Christiana Hospital identifies people at risk for low-blood oxygen levels while flying. High altitude simulation testing takes about 30 minutes to one hour and depending on test results, patients can coordinate taking supplemental oxygen aboard the aircraft or to their high-altitude destination.

Participating in cystic fibrosis research

The Adult Cystic Fibrosis (CF) program is now part of the Cystic Fibrosis Treatment Development Network. This prestigious appointment enables participation in clinical trials testing new drugs and new treatments for CF patients. Christiana Care works in cooperation with Nemours/A.I. duPont Hospital for Children to transition children with CF to adult care.
Interventional bronchoscopy guides lung biopsies
Christiana Care is among select hospitals nationwide using endobronchial ultrasound (EBUS) to find cancer. EBUS imaging provides a clearer view from inside the chest to precisely detect and sample lymph nodes that might contain metastatic lung cancer without surgery.

eCare expands to Maryland
Christiana Care is helping hospitals in rural Maryland by monitoring patients remotely around the clock. The VISICU eICU program in place at more than 200 hospitals nationwide improves quality of care in Intensive Care Units. In 2005, Christiana Care was the first health system in America to adopt the program to monitor critically ill patients in the Emergency Department and in post-anesthesia care units. Studies show patients do better and require shorter stays in hospitals when doctors trained in critical care manage their care. In addition to enabling health care professionals to act quickly and to prevent complications, the system also reduces stress and improves nurse retention in the ICUs. Collectively, the newly participating Maryland eCare hospitals admit more than 66,000 patients every year.

Testimony before Congress
Albert Rizzo, M.D., chief of the section of Pulmonary and Critical Care Medicine testified in March before the U.S. House of Representatives Labor, Health & Human Services Education and Related Agencies’ Appropriations Subcommittee on the burden of chronic lung disease in our nation. Dr. Rizzo is Speaker of the American Lung Association's Nationwide Assembly.

Physical Medicine and Rehabilitation Services
Center for Rehabilitation Wilmington Hospital reaccredited
The Center for Rehabilitation Wilmington Hospital (CRWH) earned reaccreditation in June 2009 from the Center for Accreditation of Rehabilitation Facilities (CARF). CRWH's comprehensive, integrated inpatient rehabilitation program and designated stroke specialty rehabilitation program compare favorably among programs nationally by all the standard measures. An expanding program in cancer rehabilitation and pain management serves patients at the Helen F. Graham Cancer Center and is led by board-certified physicians in physical medicine and rehabilitation and palliative and hospice medicine.

CRWH DATA from July 2008 to May 2009
TOTAL ADMISSIONS: 863 (21% CVAs; 41% orthopedic; remainder includes spinal cord injuries, traumatic brain injuries, multiple trauma, with pulmonary cardiac rehabilitation.)
LENGTH OF STAY: 11.5 days (regional average is 12.9 days; national is 13.2 days.)
PATIENT DISCHARGES: 78.6% discharged to community (regional average is 74.9%; national average at 77.2%)
LENGTH OF STAY EFFICIENCY: 3.06 (regional average is 2.55%; national is 2.45%) Length of stay efficiency measures gains and activities of daily living such as dressing, feeding, ambulation, and self-care. The higher the number, the greater the patient improvement.

Electrical stimulation helps retrain muscles
Christiana Care Rehabilitation Services is the first in Delaware to use a new neuromuscular electrical stimulation (NMES) device to help head and neck cancer patients retrain muscles used for swallowing and speaking after radiation therapy. The device called VitalStim, Experia, emits a high-voltage waveform that penetrates thickened tissue that develops after radiation to stimulate the underlying muscle. In addition, patients with sharp sensitivity due to cranial nerve connection benefit from a special waveform that bypasses pain receptors and stimulates throat and upper esophagus muscles. Used in combination with other treatment, the Experia unit helps patients achieve improved results with fewer therapy sessions.

Improved results for stroke and brain injury rehabilitation
Following therapy in the past year, 50 percent of outpatients in the Stroke and Brain Injury Rehabilitation Program returned to work or their previous situation and more than 30 percent sought alternate training. The program is the only one if its kind in Delaware, offering physical, occupational and speech therapy as well as expertise in neuropsychology and audiology, all in one outpatient location.

Renal & Hypertensive Diseases
First kidney transplant program in Delaware
In 2007, the Christiana Care renal transplant program performed the first adult kidney transplant and the first adult living donor transplant in Delaware. Since then 41 patients have received living related or cadaveric transplants and 587 have received evaluations. (187 evaluations in FY 09.) Certified by the United Network for Organ Sharing and led by an experienced team of transplant surgeons and professionals, the program provides optimum care for these complex patients.

Downstate kidney clinic launched
The transplant program opened a kidney clinic in January, 2008, for patients south of Dover who are awaiting kidney transplants at Christiana Care. The bimonthly clinic meets at the Center for Heart & Vascular Health satellite office at Beebe Medical Center and shortens commute time and costs for downstate patients.

Acute renal failure treatment alternative slashes time needed for dialysis
SLEDD (Sustained low efficiency daily dialysis), a new acute renal failure therapy alternative, improves patient care for critically ill renal failure patients. It enables acute renal failure patients who once had to be connected 24/7 to reduce their time on dialysis to as little as 10 hours a day.

Statistical Highlights
Christiana Care nephrologists provide inpatient and outpatient consultative services for patients throughout Delaware and Cecil County, Maryland, with all stages of chronic kidney disease, fluid and electrolyte disorders and hypertension. Services include dialysis, chronic kidney disease and end-stage renal disease management,
a kidney transplant program and a vascular access/interventional nephrology center.

Patient volumes and clinical data FY 2009

<table>
<thead>
<tr>
<th>Service</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renal biopsies</td>
<td>139</td>
</tr>
<tr>
<td>Inpatient hemodialysis treatments</td>
<td>6,832</td>
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<tr>
<td>Inpatient consultations</td>
<td>4,389</td>
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<tr>
<td>Outpatient hemodialysis treatments</td>
<td>2,913</td>
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<tr>
<td>Continuous renal replacement treatments in an ICU setting (CRRT/SLEDD)</td>
<td>248</td>
</tr>
<tr>
<td>Inpatient peritoneal dialysis treatments</td>
<td>579</td>
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<tr>
<td>Renal transplants (7/1/08-6/30/09)</td>
<td>17</td>
</tr>
</tbody>
</table>
Honors, Awards, Kudos

Brian Aboff, M.D., was appointed to the Transitional Year Residency Review Committee and became Chair of the Association of Program Directors in Internal Medicine (APDIM) Program Planning Committee.

Tony Bianchetta, M.D. and Allen Friedland, M.D., won the 2008 President's Award to School Health Committee Members, Medical Society of Delaware.

Joanne C. Brice, M.D., FHM, a Christiana Care hospitalist, is a member of the inaugural Class of Fellows, the first ever-formal designation by the Society of Hospital Medicine.

Virginia U. Collier, M.D., FACP, received the Laureate Award from the DE Chapter of the American College of Physicians (ACP). She was also named Chair of the Education Committee of the (national) ACP.

Community Health Outreach and Education Program at the Helen F. Graham Cancer Center won the American Heart Association's Go Red for Women Heartbeat Award in November.

Dan Elliott, M.D., received the 2008 Young Physician Award, Medical Society of Delaware. He was also one of five finalists for the prestigious Milton W. Hamolsky Junior Faculty Awards, presented for the scientific presentations considered most outstanding by junior faculty during the Society of General Internal Medicine's 32nd annual meeting, in 2009.

Robert Frelick, M.D., received the Lewis B. Flinn President's Commendation Award from the Delaware Academy of Medicine in March.

Allen Friedland, M.D., was named one of Delaware Today Magazine's "40 People to Watch Under 40.”

Jennifer Genuardi, M.D., won the 2008 Humanitarianism Award for medicine-pediatrics residents.

John Goodill, M.D. and Andrew L. Himelstein, M.D., received Delaware End of Life Coalition Awards for Excellence in Hospice and Palliative Care in November.

Robin A. Horn, M.D., member of the Medical/Dental Staff and Cardiology Consultants, PA, won the American Heart Association's Go Red for Women Heartbeat Award in November.

Medical Intensive Care has made Christiana Care one of only 35 hospitals nationwide to earn the prestigious American Association of Critical Care Nurses Spring 2009 Beacon Award for Critical Care Excellence.

Michael Perraut, M.D., Emergency/Internal Medicine Resident won the national CPC (clinical pathology case) championship at the annual American College of Emergency Physician's Scientific Assembly in Chicago. It was the first time one of our residents brought home the award.

Hayley Queller, M.D., received the 2008 Christiana Care Health System Medical-Dental Staff Award: “Teaching General Pediatric Principles to Housestaff Using Interactive Product Demonstration,” and the 2008 Delaware Chapter American Academy of Pediatrics Award.

Marc Zubrow, M.D., director of Critical Care Medicine and eCare, joins a select group of professionals named to HealthLeaders Magazine's annual list of people who are "truly making a difference" in today's complex health care world.

Medical Oncology Hematology Consultants, PA, is one of only 10 community oncology practices nationally to receive honors from the American Society of Clinical Oncology (ASCO) and the ASCO Cancer Foundation for improving cancer care through participation in clinical trials.

Nephrology Associates, PA, which directs dialysis and adult medical transplant services at Christiana Care, received the prestigious Exemplary Practice Award from the National Renal Physicians Association in March.
Appointments

Joanne Brice, M.D. was appointed Chief of the Division of Hospitalist Medicine.

Robert Dressler, M.D., became full time vice chair of the Department of Medicine in October.

Allen Friedland, M.D., director of Med-Peds Residency Program, was selected to the Executive Committee of the American Academy of Pediatrics and American College of Physicians, section of Medicine-Pediatrics.

Ed Goldenberg, M.D., was elected a fellow in The National Lipid Association for his special contribution to the field of treatment of hyperlipidemia.

Stephen Grubbs, M.D., was selected for the Institute of Medicine’s (IOM) Committee on Cancer Clinical Trials and NCI Cooperative Group System, November 2008 through April 2010.

Timothy Manzone, M.D. became section chief of Nuclear Medicine and PET Services and medical director for Oncologic Nuclear Medicine at the Helen F. Graham Cancer Center in October upon the retirement of Vidya Sagar, M.D.

Shakaib Qureshi, M.D. was appointed section chief of Rheumatology.

Julie Silverstein, M.D., section chief, General Internal Medicine, was named Department of Medicine Patient Safety and Performance Improvement Director in July 2008.

Sarah Schenck, M.D., became Medical Director of the Adult Medicine Office at the Wilmington Hospital Health Care Clinic.

Rani Singh, M.D., is Director of the Inpatient Service at Wilmington Hospital.

Faculty Appointments

Farid Moosavy, M.D., is Clinical Instructor of Medicine, Jefferson Medical College

Edmondo Robinson, M.D., is Clinical Assistant Professor of Medicine, Jefferson Medical College

Physician Ambassadors from the Department of Medicine

March 31, 2009 - March 31, 2010

Pamela Amelung, M.D. - eCare

Brad Bley, M.D. - Wilmington Hospital Health Center Adult Medicine Office

David Britchkow, M.D. - 6E Medical and Express Admission Unit

Steve Cozmanis, D.O. - Center for Advanced Joint Replacement

Josette Covington, M.D. - Occupational Health

Patricia Curtin, M.D. - 6A ACE Unit, Christiana Hospital & Wound Ostomy Care nurses

Marci Drees, M.D. - Infection Control

Wesley Emmons, M.D. - 4E Medical, 5C Medical and 5E Heart Failure Unit

Allen Friedland, M.D. - Wilmington Hospital Health Center Pediatrics Program

Stephanie Gilibert, M.D. - 5B Medical

John Goodill, M.D. - Pain & Palliative Care

Matthew Grove, D.O. - CICU

Kelly Heath, M.D. - 6 North/South Rehabilitation

Robin Horn, M.D. - Non-Invasive Services

Vinod Kripalu, M.D. - 5 South ACE Unit, Wilmington Hospital

Arun Malhotra, M.D. - Hemodialysis

Erik Marshall, M.D. - Non-invasive Cardiovascular Lab

Jomy Matthew, M.D. - 6C STAR unit
John Moline, M.D. - MICU
Azita Moosavy, M.D. - 4 East/West Wilmington
Jason Nace, M.D. - Clinical Decision Unit
Badrish Patel, M.D. - 3D, Wilmington Intensive Care and MICU
Joseph Pennington, M.D. - EP Lab
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