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Chair’s Message

Christiana Care Medicine strives to be a national leader in delivering value-based clinical care across the continuum. This is our vision and our passion. From the perspective of the patient, “value” takes many forms. Under all circumstances, however, value-based care should include the six principles articulated by the Institute of Medicine in its important report, *Crossing the Quality Chasm*, which calls for care that is “safe, effective, patient-centered, timely, efficient, and equitable.”

Highlights of our accomplishments, reported here for FY2011, illustrate the many and varied ways we are working to achieve our vision, supported by Education, Research and Performance Improvement. All of our projects are driven by this vision, which is aligned with the Christiana Care Five-Year Plan and the Annual Operating Plan.

In FY2011, two Medicine retreats laid the groundwork for moving forward: a faculty retreat focused on the essentials of value-based care and a research retreat, on how research can support the provision of value-based care. The results were presented to Medicine and Administrative Staff at our annual meetings and as a kickoff to our FY2012 Residency Program.

Moving forward, we have the tools and the teams to accomplish our vision. With them we are building a Department of Medicine culture of continuous improvement that minimizes waste, eliminates harm, and provides well-coordinated, evidence-based, patient-centered care across the continuum. Our efforts continue to earn recognition nationally and at home.

For the fourth straight year, in FY2011 US News and World Report ranked Christiana Care as one of the nation’s best hospitals, high performing in 11 adult specialties. We are also ranked among the top hospitals in the region for high performance in 12 specialties, including cancer, diabetes and endocrinology, geriatrics, gastroenterology cardiology, kidney disorders, neurology, and pulmonology, according to US News Best Hospitals Metro Area Rankings. In addition, Christiana Hospital was recognized nationally as a top 100 hospital for community value, according to Cleverly+Associates, a leading health care data and consulting services firm.

Medicine initiatives are gaining well-deserved recognition for quality and patient safety. We were recognized by the American Heart Association/American Stroke Association for implementing a higher standard of care for both stroke and heart failure patients, earning the Get with the Guidelines – Stroke Silver Plus Quality Achievement Award and the Heart Failure Gold Quality Achievement Award.
Medicine education remains strong for both combined and categorical graduate education programs and is supported by nationally known educators who serve as faculty and mentors. Fellowship programs in Cardiology and Nephrology are flourishing, and we continue to train medical students from Jefferson Medical College and other schools around the country.

Congratulations to all of our Teaching Award winners. Matthew Burday, D.O., FACP, is the 2011 recipient of the Herbert S. Waxman Award for Outstanding Medical Student Educator from the American College of Physicians, the largest medical-specialty organization in the United States. Dr. Burday has trained medical students at Christiana Care for more than 20 years, and his award is the highest honor the ACP presents to a medical student educator.

Congratulations also to Ehsanur Rahman, M.D., FACC, Teacher of the Year; Matt Dunn, M.D., Teacher of the Year for Pediatrics; Nuclear Medicine’s Hung Q. Dam, M.D., Teacher of the Year for Radiology; Lionel Malebranche, M.D., Most Outstanding Resident Teacher of the Year; and to Jim Perkins, M.D., recipient of the Mark W. Maxwell Award, selected by Medicine residents for his devotion to patients, compassion, humility, and extraordinary enthusiasm.

Research and scholarly activities are fully aligned with Departmental clinical, educational and performance improvement efforts that drive advances in healthcare delivery and how we train tomorrow’s providers. Once again we acknowledge and thank the many physicians in the Department who have contributed countless hours of service to Christiana Care in support of our mission.

Virginia U. Collier, M.D., FACP
Hugh R. Sharp Jr. Chair of Medicine
Professor of Medicine, Jefferson Medical College
The Department of Medicine has an attending staff of approximately 429 physicians who oversee more than half of the 1,147 beds in Christiana Care hospitals. 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.

Meet Our Leadership Team and Section Chiefs

2010 Physician Ambassadors

Unit Based Clinical Leaders

Meet Our New Physicians

Meet Our Medicine Administrative Staff
Inpatient & OBS Discharges by Service Line based on Final Attending Physician

FY11 Medicine accounted for 45% of all Inpatient discharges and 32% of all OBS discharges.
Clinical Transformation

Medicine is leading the way to improved patient care through our Inpatient Medicine Service Line (IMSL) initiatives and clinical transformation projects. Projects and accomplishments highlighted in this report demonstrate innovation, creativity and flexibility essential to our mission. Some projects have already produced results, while others are poised to improve value in the near future with identifiable, measurable, outcomes.

1. CRTI (Christiana Rapid Transfer Initiative) is improving the process of care for medically critical patients. During FY2011, the CRTI work group initiated the following programs and began Rapid Cycle testing:

   **MICU Alert Response Team.** After assessment in the ED, a MICU based team provides either rapid transfer to the MICU from the ED or a MICU alert nurse to manage the patient in the ED until a MICU bed is available. Early results show a 45 percent decrease in median length of stay (LOS) for MICU patients in the Emergency Department and a 34 percent reduction in overall length of stay in the MICU, while improving or maintaining clinical outcomes.

   **Procedure Team.** A multidisciplinary, medicine-surgery procedure team piloted performance designated procedures at the bedside. Preliminary results show a reduction in time to procedure facilitating decreased LOS and increased patient safety by standardizing processes and providers and reducing complications and unnecessary procedures.

   **Enhanced 3D (Medicine Stepdown) Care Capabilities.** A pilot project to develop a new model of care delivery on the 3D medical step-down unit includes efforts to enhance the partnership between bedside nurses and attendings as well as with the patients and their families. Improved communication, cohesiveness and a goal-directed plan of care enable timely decision making to improve quality, patient safety and care value. Pilot results show physicians and nurses have embraced the new care standards and have expressed satisfaction with ongoing efforts.

2. Unit Based Clinical Leadership models a partnership between the Nurse Manager and a Unit Based Medical Director to promote consistent, visible physician leadership on each unit and physician-nurse collaboration to advance IMSL goals, identify opportunities for improvement and implement change. Using a standardized, analytical approach to problem solving, individual team projects as well as collaborative initiatives are underway. Teams are collaborating to standardize and improve the patient discharge process and to reduce the incidence of hospital acquired infections.
3. A recently developed IMSL Data Cube incorporates both clinical and financial data for patients discharged from Medicine units. This will allow us to provide feedback to clinicians with the goal of reducing variability in care through emphasis on the use of evidence based protocols where possible.

4. Improving the Discharge Process is part of a comprehensive strategy to improve transitions of care from inpatient to outpatient settings and to decrease readmissions to medicine units. Accomplishments include development of an electronic tool to identify upon admission patients at high risk for readmission and standardizing discharge process interventions.

5. Transformational, condition-specific programs for Medicine patients:

  **Project Engage**, peer counseling for substance abuse patients, resulted in a 41.7 percent referral rate to community based inpatient/outpatient treatment programs and decreased inpatient hospitalizations by 33 percent and ER visits by 38 percent.

  **MICU Sedation Protocol** for ventilated patients, reduced, in six months, the average MICU LOS from 3.93 to 3.71 days and the average hospital LOS by 4.5 days.
Rapid Identification of Risks for Alcohol Withdrawal and DT’s, by working to institute hospital wide screening for alcohol withdrawal risk and a protocol driven assessment for alcohol withdrawal and delirium tremens, improved prevention and decreased transfers to the MICU. Floor to ICU transfers dropped by 2 percent for patients diagnosed with alcohol withdrawal and from a baseline of 21.4 percent in 2009 to 10 percent in 2011 for patients diagnosed with DTs, an important overall patient safety improvement.

Vaccination program on Medicine 5C, a targeted effort of the Patient Care Facilitators on the unit, increased the pneumococcal and influenza vaccination rates to 98 percent.

Anemia Management protocol, developed as a performance improvement initiative in dialysis units, increased appropriate use of an expensive medication (Epogen).

Diabetes Report Card improved patient-physician dialogue and adherence to recommended guidelines for diabetes care in the resident Adult Medicine Office.

6. Multidisciplinary clinical transformation projects designed to reduce harm and improve care value in which Medicine plays a key role:

CUSB - Comprehensive Unit-Based Safety Program focused on health care associated infections (CLABSI, VAP, CAUTI).

Hospital Acquired Venous Thromboembolism prevention protocol.
Research

Research within the Department of Medicine encompasses investigational efforts that are multidimensional and cross-specialty and are aimed at improving the quality and value of our patient care services. Our physicians pursue a broad array of research as principle investigators in federal or state supported, industry sponsored, or locally initiated studies, as well as with the Christiana Care Center for Outcomes Research (CCOR).

Focus on Excellence Resident Award winner: Improving Transitions from the ED to the Primary Care Office.

They also serve as mentors to fellows, residents and medical students who pursue their own research interests in every specialty. Many of these projects have earned national awards and have provided learners with the opportunity to present on national and international platforms.

In FY11, an interdisciplinary team of medicine, medicine-pediatrics and medicine-emergency medicine residents won the Christiana Care Focus on Excellence Resident Award as well as the
Alliance of Academic Independent Medical Centers Innovation Award for their project entitled: RITE–O; Mind the Gap: Improving Transitions from the ED to the Primary Care Office.

The team identified opportunities and implemented process changes to improve the transition of care for Adult Medicine Office (AMO) patients after Emergency Department visits. Their work enhanced communication between the ED and AMO and increased outpatient follow-up visits, thereby enabling increased opportunities to address chronic issues, schedule outpatient testing and resolve acute issues.

Standing Left to Right
Loretta Consiglio Ward, RN, Ken Birkenhall and Patty Blair, RN.

Sitting - Left to Right
Samantha DeCouto, D.O., Matthew Stofferahn, M.D., and Andrea Read, D.O.
Absent from photo: Jennifer Grilli, D.O., and Suhani Shah, Pharm.D.

Research nurses assigned to Medicine

Qualified research nurses are essential to a successful research program. In FY 2011, direction for Research Nursing was transferred to the vice president for Medicine.

Research nurses provide the foundation for successful research projects and clinical trials through their comprehensive knowledge of governmental and Christiana Care research rules and guidelines. In collaboration with physician investigators, research nurses coordinate all study activities, including study submissions for review, education, and supervision of essential staff (lab, pharmacy, hospital staff, physicians/residents, etc.), dissemination of information, data collection, and distribution of study product, as appropriate.
The following research nurses have joined the Department of Medicine and now report directly to Vice President Mike Eppehimer, MHSA:

**Standing - Left to Right**
- Debbie Moore, RN, CDE, CCRC, Diabetes and Metabolic Diseases/Neurology Specialists Research Supervisor;
- Deb Cebenka, RN, MSN, Hemophilia Program Coordinator;
- Robbie Zent, RN, Research Coordinator

**Sitting - Left to Right**
- Kathy Greenbaum, RN, MSN, CDE, CCRC, Research Coordinator;
- Patty McGraw, RN, MS, CCRC, Infectious Disease Research Supervisor;
- Barb Tambourelli, RN, Research Coordinator
Education

Residency Programs

Medicine education strives to provide future physicians with the tools to practice value based clinical care, while embedding in their “adaptive unconscious” the concepts that promote quality, patient safety, teamwork, personal accountability, intellectual inquiry, continuous improvement and commitment to excellence.

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 2010-2011

<table>
<thead>
<tr>
<th>Program</th>
<th>Residents</th>
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<tr>
<td>Internal Medicine Categorical</td>
<td>35</td>
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<tr>
<td>Internal Medicine Preliminary</td>
<td>6</td>
</tr>
<tr>
<td>Medicine-Pediatrics</td>
<td>16</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>1</td>
</tr>
<tr>
<td>TOTAL Residents</td>
<td>82</td>
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Our residency programs prepare well-rounded graduates for the challenges of providing high quality, compassionate, cost-effective care as primary care physicians, hospitalists, and specialists. As many as 40 percent choose to continue their career paths in Delaware. The chart below shows next steps for this year’s graduating residents from the Internal Medicine, Medicine-Pediatrics and Emergency Medicine/Internal Medicine programs.

Curriculum Redesign Results

The Internal Medicine Residency Program redesigned its curriculum to allow residents to focus solely on the outpatient Adult Medicine Office or ambulatory electives without competition from the demands of patient care on inpatient units. This innovative curriculum was presented nationally, resulting in increased recognition for Christiana Care as a national innovator in residency training and visits from program directors from other institutions to observe our success.
**Resident outcomes:** Resident surveys demonstrated that residents had better focus (on either inpatient or outpatient care), less stress, a better Adult Medicine Office experience, and improved continuity of care in the outpatient setting.

![Graph showing resident outcomes metrics](image)

**Figure 1**

**Faculty outcomes:** Faculty perceived reduced interruptions in residents’ schedules (*Figure 2*), an increased sense of residents’ ownership of their practices (*Figure 3*), and agreement (100% for GIM faculty and 80% for subspecialty faculty) that changing the curriculum was beneficial.

![Graph showing faculty outcomes metrics](image)

**Figure 2**
Celebrating 21 years as a residency program.
The Med-Peds section has 25 active physician members in New Castle County with 19 members with part/all of their job description as part of Christiana Care Health System. Seventeen are graduates from our residency program.

A nationally recognized Transition Care Practice (TCP) at Wilmington Hospital provides care for young adults with special health care needs.

Medicine/Emergency Medicine

Fellowships

Expanding fellowship opportunities have strengthened our standing as a respected academic center.

Cardiology and Interventional Cardiology Fellowship Program Updates
The three-year cardiovascular disease fellowship program welcomed new first year fellows Dimitrios Barmpouletos, M.D., UCONN; Lionel Malebranche, M.D., Christiana Care; Asim A. Mohammed, MB, BS, University of Illinois – Advocate Christ Medical Center; and Subba Reddy Vanga, MB, BS, St. Luke’s Hospital, Kansas. Matthew Grove, D.O. and Leonid Mandel, M.D. entered the Interventional Fellowship program in July.

Nephrology Fellowship Update
The Nephrology Fellowship program earned five-year accreditation by the Accreditation
Council for Graduate Medical Education. Manthodi Faisal, M.D., who entered the program two years ago as our first fellowship candidate, graduated in June and joined Nephrology Associates, PA-Delaware. The new first year fellow is Brooke Mobley, D.O., who just completed her Internal Medicine residency at Christiana Care. She joins Waqas Ahmed, M.D., who is entering his second year of nephrology fellowship training.

Medical Students

Teaching medical students is an important ongoing commitment. The Department of Medicine is an integral part of the Jefferson Medical College student program. In FY11, 40 second-year students taking "Introduction to Medicine," 64 third-year students and 92 fourth-year students rotated through the Department. In addition, 53 students from 8 medical schools throughout the United States as well as students from 3 medical schools abroad did fourth-year medical student clerkships here. One observer from London did a four-week rotation in Infectious Disease.

International Exchange

In summer, 2011, the Department of Medicine was proud to welcome Abdullah Alkhudayri and Ibrahim Almutairi, fifth-year medical students from the King Fahad Medical City Complex, Riyadh, Saudi Arabia, who spent eight weeks completing medical observerships. Their visit included shadowing Cardiology and Rheumatology physicians at Christiana Hospital.

Undergraduate Students

Medical Scholars Program

The Department introduced two qualified undergraduate students to clinical medicine through the University of Delaware Medical Scholars Program, offered in conjunction with Jefferson Medical College. The Internal Medicine practicum emphasizes the psychosocial aspects of patient care.
Section Highlights

- Cardiology
- Endocrinology and Metabolic Diseases
- Gastroenterology
- General Internal Medicine
- Geriatric Medicine
- Hematology
- Infectious Disease
- Medical Oncology
- Neurology
- Nuclear Medicine
- Pain Management/Palliative Care
- Physical Medicine and Rehabilitation Services
- Pulmonary & Critical Care Medicine
- Renal & Hypertensive Diseases

Cardiology – directed by the Heart and Vascular Service Line

Christiana Care cardiologists are experts in the diagnosis, treatment and prevention of heart disease, stroke and other diseases that affect the heart and blood vessels. Read more about what makes us leaders in cardiovascular care and our entire roster of programs and services. Read our entire section report here.

FY11 Highlights include:

- Cardiovascular clinical trials broaden access to newest treatments.
- Cardiovascular Practice Network joins outpatient practices as one team.
- Cardiology Clinic opens on Wilmington campus.
- Heart Failure Program is Joint Commission certified/wins AHA Gold Quality Achievement Award.
- Ventricular Assist Device Program launched for Bridge to Transplant and Destination Therapies.

Endocrinology and Metabolic Diseases

The Christiana Care Center for Diabetes & Metabolic Diseases, recognized for quality by the Diabetes Physician Recognition Program of the National Committee for Quality Assurance and the American Diabetes Association, offers comprehensive care for patients with diabetes, metabolic and other endocrine disorders.
Nurses become "diabetes resources"
Staff nurses are serving as diabetes resources to their nursing colleagues as part of a pilot training program launched at Christiana Hospital by the Diabetes Management Group (DMG). Having knowledgeable "go to" staff available on the units enhances overall clinical expertise and fosters evidence-based practices. An Inpatient Diabetes Report Card records data for baseline comparisons such as readmission rates, outpatient diabetes education participation, and when possible, glycemic control measures. Currently training is planned for nurses on one unit at Wilmington Hospital, as well.

Collaborations improve diabetes care
The DMG, a multidisciplinary team charged with coordinating diabetes care delivery systemwide, collaborated with Maternal-Fetal Medicine and Nursing to develop and implement a new patient order set for treating pregnant women who may have diabetic ketoacidosis (DKA) a potentially life-threatening complication. A protocol for patients on an insulin pump with instructions for nurses is now available on the iNET. A template for blank prescriptions for diabetes medication and supplies needed at the time of discharge is in development for posting on the physician portal.

Employees choose Health for Life
Christiana Care employees who joined Health for Life, a program developed by Weight Management in collaboration with Human Resources, saw significant favorable changes in body weight, percent body fat, cholesterol profiles and overall quality life. The program ran from December 2010 to April 2011, enrolling 179 employees and graduated 98 who completed the pre-program assessment, group sessions and the post-program assessment. The next round of Health for Life will be open to the public as well as employees in Fall 2011.

Targeting diabetes and its complications
The Diabetes and Metabolic Research Center actively recruits patients for a variety of multicenter, multinational clinical trials. New this year are a number of pharmacology trials focused on treating both type 1 and type 2 diabetes that include evaluating cardiovascular outcomes, controlling hypertension and treating early or new onset type 1 disease.

Gastroenterology
Our experienced Gastroenterology team is known throughout the region for quality patient care.

Regional Center for GI Services
Christiana Care Gastroenterology provides a comprehensive array of diagnostic, therapeutic and consultative gastrointestinal services. The GI Lab at Christiana Hospital is a recognized regional endoscopy referral center, specializing in advanced techniques. Among these are
therapeutic ERCP (endoscopic retrograde cholangiopancreatography), endoscopic ultrasound, impedance esophageal manometry, Barrett’s ablation therapy and balloon enteroscopy. Work has already begun on an expanded Endoscopy Unit at Christiana Hospital that will meet the growing demand for invasive GI procedures with efficient delivery of care. A newly designed GI Lab is also part of the Wilmington Hospital expansion project.

More than 9,000 GI Lab procedures were performed at Christiana and Wilmington hospitals in the last year.

![Christiana Care GI Labs Performance June 2011](image)

**General Internal Medicine**

The Department of Medicine is committed to providing excellent, coordinated, patient focused care in inpatient and outpatient settings. The Section of General Internal Medicine is the largest section with 157 members, and now includes two divisions: the Division of Addiction Medicine and the Division of Hospitalists. Physicians in the overlapping Medicine/Pediatrics Section are both general internists as well as pediatricians.

Within General Medicine, hospitalists as well as general internists who also have office practices provide inpatient care at both Christiana and Wilmington hospitals. Outpatient clinical care sites include the HealthCare 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.
New Division of Addiction Medicine at work
To improve care for people with alcohol and substance use disorders, the Department of Medicine Executive Committee recently created a Division of Addiction Medicine within the Section of General Medicine, appointing Terry Horton, M.D., FACP as chief. Critical to its mission is work toward an integrated state-wide treatment continuum for patient identification, early engagement and referrals to community providers for ongoing drug and alcohol treatment. Companion objectives include development of an addiction education curriculum for providers, an addiction-related research effort and philanthropic funding base to support the overall mission.

Poster wins IHI Permanente Journal Service Quality Award
With clinical oversight for the Alcohol Withdrawal Work Group, Addiction Medicine developed and launched a nursing educational component to help insure compliance to Clinical Institute Withdrawal Assessment (CIWA) triggered protocols. Results were highlighted at several national meetings including the 22nd Institute for Healthcare Improvement Annual National Forum, at which their poster was awarded the Permanente Journal Service Quality Award.

Alcohol withdrawal research in progress
Addiction Medicine is collaborating with the University of Pennsylvania to study the validity of the AUDIT-PC screening tool which will yield important performance information on the tool’s ability to predict alcohol withdrawal as well as performance in both senior and adult populations.

Peer-to-peer addictions counseling helps save lives
Patients with substance abuse issues receive potentially life-saving treatment for addictions through Project Engage, an innovative peer-to-peer counseling program offered at Wilmington Hospital in partnership with Brandywine Counseling and Community Services. As many as 35 percent of patients who receive peer-to-peer counseling enter a licensed inpatient or outpatient treatment program.
Among the first 24 patients studied, hospital admissions declined by 58 percent within six months after intervention, and there were 12 percent fewer visits to the Emergency Department, representing a savings of almost $72,000. Visits to primary care providers increased to 88 percent for patients visited by a peer counselor. This is important because those who receive treatment for their addictions and routine medical care are less likely to develop more serious conditions. The program continues to produce dramatic results that could ultimately reduce serious illnesses associated with addiction, as such as pancreatitis, heart disease, kidney failure, cirrhosis and pneumonia. A poster was presented at the Annual Meeting of the College on Problems of Drug Dependence, the premier international addiction medicine venue. Collaboration with the University of Pennsylvania to track patient results and cost savings eventually could take this model nationwide. Roll out of the program at Christiana Hospital is planned.

**Geriatric Medicine**

The Section of Geriatric Medicine is an interdepartmental section which includes internists and family medicine physicians with either fellowships or a special interest in geriatrics, advanced practice nurses, and pharmacists. All are focused on providing integrated, expert health care and services for senior patients who live independently or require hospitalization, assisted living or long-term care. Outpatient programs include adult day care, senior center offices, home doctor visits, geriatric assessments, and dementia care.

**Transforming Alzheimer’s care – Swank Memory Care Center**

The Swank Memory Care Center is the area’s first comprehensive outpatient office for patients with memory disorders and their families. More than 14,000 people across Delaware are coping with Alzheimer’s disease and other forms of memory loss. The Swank Memory Care Center offers these patients and their families essential support, education and guidance from diagnosis through treatment. For the first time, health care services, caregiver support and education to treat memory loss are provided in one outpatient clinical care location, supported by an interdisciplinary team of professionals including neurologists, psychiatrists, geriatricians, internists and family medicine physicians, a nurse and social worker with knowledge of community and regional resources. The Center, opened in May 2011, is a collaborative effort of the Departments of Medicine, Family and Community Medicine and Psychiatry.

**ACE Units improve senior outcomes**

ACE Units at Christiana and Wilmington hospitals improve clinical outcomes by addressing specific concerns of patients age 70 and older who may be more susceptible to problems including falls, skin breakdowns, immobility or cognitive impairment. ACE nurses receive special training in providing care to older patients. An interdisciplinary ACE team works to integrate care planning and improve continuity of care and communication with patients and families. 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 last year experienced zero restraint use and decreased falls, less Foley catheter use and safer medication regimens.

**Prevention, diagnosis and treatment of delirium**
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 Delirium Care Management Team is also working on an electronic-based approach to assessment, prevention and management of delirium. In addition, members of the section continue their work systemwide on management of constipation, reduction of Foley catheters systemwide, restraint reduction, fall prevention, promoting skin integrity, through team based care.

![Prevalence Rate of Foley Catheters](chart.png)

**WISH Program models care for other hospitals**
The We Improve Senior Health (WISH) Program is a collaboration among nurses, physicians, pharmacists, rehabilitative therapists, social workers, dietitians and staff from other disciplines to improve care to senior patients. WISH has trained more than 1,450 health care providers to become Senior Health Resource Team (SHRT) members to promote best-practice geriatric care. WISH is derived from a national initiative called Nurses Improving Care for Health system Elders (NICHE). CCHS has been a member since 2001 and was recognized in 2005 as a NICHE/AONE model of care.
Hematology

Collectively, the Hematology Section represents more than 120 years of clinical and laboratory hematology experience. Section members care for patients at Christiana and Wilmington Hospitals and in offices at the Helen F. Graham Cancer Center. They provide direction for several clinical programs and laboratories.

Hematology section members are active in clinical research and participate in carefully selected pharmaceutical industry clinical trials. Eligible patients have the opportunity to enroll in trials under the auspices of the National Cancer Institute Clinical Trials Cooperative Group program that includes studies from the Cancer and Acute Leukemia Group B (CALGB) and the Eastern Cooperative Oncology Group (ECOG), as well as in the National Marrow Donor Program and the Blood and Marrow Transplant Clinical Trials Network.

Blood and Bone Marrow Transplant Program recognized
Delaware’s only stem cell transplant program was recognized for superior care to volunteer marrow and apheresis stem cell donors by the National Marrow Donor Program with the "Be the Match" award, in April 2011. For more than a decade, the transplant program has been continuously accredited by the Foundation for Accreditation of Cellular Therapies (FACT) and is currently preparing for re-accreditation to continue both autologous and allogeneic transplants. The Blood and Marrow Transplant Laboratory also is accredited by FACT as well as the American Association of Blood Banks, the College of American Pathologists, and the FDA.

In calendar year 2010, the program performed 30 transplants (23 autologous, 5 donor transplants and 2 reduced intensity blood and marrow transplants) and through June 2011, another 18 transplants (17 autologous and 1 donor transplant).
Improving outcomes for hemophilia patients

Christiana Care's Hemophilia Treatment Center provides comprehensive care and preventive services to more than 200 patients with bleeding disorders. This means focusing not only on the disease itself but also on the emotional, social, educational, financial and workplace concern of patients. Close communication with primary care and other physicians providing outpatient treatment, such as colonoscopies, dental, dermatologic and gynecological procedures, has resulted in our patients having zero percent post-procedure bleeding.

Infectious Disease

The Infectious Diseases Section provides inpatient consultations to almost 10,000 patients each year and thousands more on an outpatient basis. Key initiatives include antibiotic stewardship and universal use of effective, infection prevention and control strategies in line with national guidelines.

Infectious Disease research is pursuing new therapies to treat Clostridium Difficile infection (C-Difficile), yeast/fungal infections, pneumonia, and more. Because of the emergence of resistant bacteria and fungal isolates, the need for new drugs to treat these conditions is essential. Section members serve as mentors for student research projects as well as collaborators on national clinical trials. Several also significantly contribute to the care of HIV patients in our state, working through the Christiana Care HIV Program.

ID conference approved for CME credits

The popular infectious disease conference series that involves house staff and community physicians in the differential diagnosis of challenging cases now offers CME credits. Organized by Stephanie Lee, M.D., it is widely considered to be one of the best case management conferences offered. The program often features reports by interns and residents, reflecting ID's commitment to academic education. This is no surprise as the ID Section faculty are consistently recognized for their teaching efforts. This year, five of the 12 section members were nominated for teaching awards.

Top notch care for HIV patients

Christiana Care is a major provider of HIV medical services throughout Delaware, operating seven clinical sites (five in New Castle County, and one each in Kent and Sussex Counties) integrated into the communities with the highest rates of HIV infection. In addition to comprehensive medical care for HIV infection, the HIV program includes a number of nested programs to address medical and psychiatric co-morbidities and women's health. It is important to note that these nested programs currently account for 50 percent of the visits attended by our patients (compared to 30 percent in 2009). The HIV Program is also working in collaboration with the Delaware Department of Corrections (DOC) and on a University of
Delaware study to improve linkage to community based medical care following release for prisoners who are identified as HIV positive.

In FY2010, the program treated 1,612 HIV positive individuals (a 4 percent jump over the previous year). The total number of clinical visits at all sites jumped to 12,529, a 5 percent increase over the previous year.

Although the majority of patients live well below the federal poverty level, 85 percent of appropriate patients are on HAART (anti-retroviral therapy). Of those, 75 percent have undetectable HIV RNA levels. It is important to note that 66 percent of HIV Program patients are AIDS-defined, which is significantly higher than those patients accessing care in the private sector. As the chart below indicates, lost to follow up rate is 4 percent and the mortality rate is 2 percent.
Screening offered for HIV-associated cancers
HIV infected patients have a high prevalence of HPV-associated anal disease, and there is evidence that the incidence of anal cancer in HIV infected patients is twice that compared to an HIV-negative at-risk population. The HIV Program offers screening to high-risk men and women in an effort to prevent anal cancer by early interventional and monitoring of precancerous conditions.

Broadening access to substance abuse treatment
More than 30 percent of all AIDS cases in the United States are linked directly or indirectly to drug use. More than 60 percent of HIV positive people experience at least one mental illness after diagnosis and many struggle with co-occurring substance use. The HIV Program will pilot an office-based opioid treatment program at the Wilmington Hospital Annex under the direction of Dr. Susan Szabo, in collaboration with Larry Yurow, LCSW. The program offers a holistic approach that combines pharmacotherapy with counseling and behavioral health, offering an important option for patients who want to stop opioid use without making daily visits to a methadone clinic or going to a drug treatment program. Research shows that Medication Assisted Treatment (MAT) reduces illicit opiate use, increases engagement in HIV care and treatment, improves adherence to antiretroviral therapy, and enhances HIV treatment outcomes.

Transition clinic eases care pathway for young HIV patients
As HIV infected adolescents grow into adulthood, transition to an adult care setting presents a unique set of challenges. The HIV Program has established a unique model in collaboration with the Nemours/A.I. duPont Hospital for Children Infectious Disease Clinic to smooth the transition for young adults as they take responsibility for their own health and disease management. The program offered at the Adolescent Transition Clinic at the Wilmington Hospital Annex, allows patients to become familiar with the adult care setting and staff, while maintaining a relationship with their pediatric provider. Patients receive care in the Transition Clinic until they have demonstrated appropriate levels of adherence and self management.

Medical Oncology – directed by the Oncology Service Line
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 Centers Program. Read more about what makes us a national model for community cancer centers and our entire roster of programs and services.

FY11 Highlights include:

- Helen F. Graham Cancer Center performs first gene therapy in Delaware.
• Breast Center is Delaware's first to earn American College of Radiology accreditation for MRI.
• Avon grant helps fund breast cancer outreach.
• Christiana care promotes breast health to Latinas.
• Helen F. Graham Cancer Center leads national colorectal cancer trial.

Neurology

With 24-hour coverage, the section of Neurology provides more than 5,000 neurology consultations a year including stroke code/alert coverage. Members of the section provide services for and serve as medical directors of the EEG, Sleep and EMG laboratories, and members provide services for both EEG and EMG laboratories.

Sleep Disorders Center
The Sleep Disorders Center, accredited by the American Academy of Sleep Medicine, provides expert, multidisciplinary diagnosis and care for every kind of sleep problem. Latest technologies such as autoSV therapy are used to manage complicated sleep-disordered breathing patients. This year, staff performed 1,445 polysomnograms (sleep studies) and 34 multiple sleep latency tests.

Silver Plus Quality Award for stroke
Christiana Care received the Silver Plus Quality Achievement Award for Stroke from the American Stroke Association. The 'Get With The Guidelines" award recognizes that Christiana Care patients receive a higher standard of stroke care according to nationally accepted standards and recommendations. To receive the award, Christiana Care achieved at least 12 consecutive months of 85 percent or higher adherence to all Get With The Guidelines-Stroke Quality Achievement indicators and at least 75 percent or higher compliance with 6 of 10 Get With The Guidelines-Stroke Quality Measures during that same period.

Nuclear Medicine

Nuclear Medicine offers comprehensive services and nearly all approved diagnostic and therapeutic nuclear medicine procedures. New to the repertoire of clinical procedures offered is quantitative renal function evaluation measuring glomerular filtration rate, requested by the Renal Transplant service. Services are provided at Christiana Hospital (diagnostic & therapy); the Helen F. Graham Cancer Center (PET/CT); Wilmington Hospital (diagnostic) MAP-2 (diagnostic, therapy & DXA); Smyrna Health & Wellness Center (diagnostic & DXA); and our Foulk Road office (DXA).

Medication management wins gold
Nuclear Medicine collaborated with Pharmacy and Nursing to achieve compliance with Joint
Commission standards to place radioactive pharmaceuticals under pharmacy control. Their efforts earned the 2010 Gold Award for Clinical Excellence in Christiana Care’s Focus on Excellence performance improvement program. The team presented at the American Society of Hospital Pharmacists annual meeting, and submitted a solicited paper to the Journal of Nuclear Medicine Technology.

**New space centralizes full range of services**

New clinical space at Christiana Hospital transforms nuclear medicine in a "chartless" environment that improves patient convenience, privacy and safety and brings full compliance with regulatory standards including regulations for radiopharmaceutical compounding. The new, easily accessible main floor space adds a 9,300 square feet, upgrades technology and centralizes a full range of nuclear medicine services, including integrating PET imaging and expanding cardiac PET imaging and adding two new large-field-of-view, dual-head gamma cameras, one a hybrid imaging system incorporating CT technology, and a portable large-field-of-view gamma camera.

Additional service upgrades include a nuclear cardiology stress lab, ambulatory injection/staging area, PET reading room, blood-volume analysis suite, a redesigned patient reception area, video surveillance and nurse call bell system. A complete renovation of the former 2,500-square-foot Nuclear Medicine suite will accommodate administrative offices, on-call rooms and a larger classroom for training future nuclear-medicine technologists in partnership with Delaware Technical & Community College.

**Improving bone health**

Nuclear Medicine has taken the lead to improve bone health and reduce fragility fractures. An upgrade to the DXA bone densitometry reporting system incorporates expanded patient history and includes absolute fracture risk assessment when appropriate. Nuclear Medicine partners with OB/GYN and Imaging Services to provide DXA services at Christiana Care sites and at community outreach settings. Section Chief Timothy Manzone, M.D., chairs the multidisciplinary Bone Health Advisory Committee, which is working to develop a multifaceted, fracture reduction program.

**Leading-edge clinical research underway**

Nuclear Medicine is credentialed to participate in several notable clinical research trials. New among them is the Lantheus 18F flurpiridaz PET MPI study, a multicenter clinical trial of a PET myocardial perfusion imaging agent. Christiana Care PI is Timothy Manzone, M.D., with co-investigators Erik Marshall, M.D. and Robin Horn, M.D.
Pain Management/Palliative Care

Effective pain management can improve quality of life and shorten hospital length of stay. Evidence suggests that pain and palliative care programs lead to additional and more timely hospice referrals, fewer inappropriate resuscitative efforts (codes) and fewer ethics consults; thus improving overall quality of care.

Multidisciplinary team offers broad range of services

In FY11, the inpatient consult service provided care to nearly 1,740 patients at Christiana and Wilmington hospitals. Of these, 990 were pain management consults and 750 were palliative care. More than 500 nurses are now trained in PPC Nurse Liaison Course. Services provided by a multidisciplinary team include: evaluation and pain/symptom management, advance care planning, end of life care and referral to hospice, general inpatient hospice care, terminal weans, accelerated bereavement and psychosocial, emotional, and spiritual support for patients and families. 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.

"No One Dies Alone"

Pain and Palliative Care collaborated with Volunteer Administration, Pastoral Services, Nursing and Infection Prevention to institute a program to provide a companion at the end of life to patients who have no family or friends present. The team earned top honors with the 2010 President’s Award in the annual Focus on Excellence Awards performance improvement program. As of January 2011, 32 volunteers had been trained and 78 volunteer hours logged in support of 21 patient referrals.

Physical Medicine and Rehabilitation Services

Wilmington Rehab redesigned

Sweeping design changes are captivating patients at the CARP-accredited Center for Rehabilitation at Wilmington Hospital. Physical therapy, occupational therapy and speech therapy, previously in separate locations, are now in one space, expanding the area for outpatient therapy. The open floor plan also facilitates the flow of ideas and collaboration among health professionals on the floor. For example, nurses can observe and deliver medications to patients in the gym and communicate with therapists to ensure carryover of learned skills after patients return to their room. The improvements also let in more light and more equipment, such as a machine that helps patients build strength in their lower extremities. Wilmington Hospital’s outpatient rehab currently records about 11,000 patient visits a year, but the new, more efficient operation will enable the center to care for more people. The Wilmington Center for Rehabilitation also has a 40-bed inpatient unit.
Physiatrist shares expertise a world away
The Center for Rehabilitation’s Tony Cucuzzella, M.D., a leading expert in non-surgical approaches to treating back and neck pain travelled to China in September to lecture and demonstrate fluoroscopic spinal procedures. His visit was hosted by the Institute for Western Surgery, in Guangdong Province, to bring the benefits of western medicine to Chinese patients.

Pulmonary & Critical Care Medicine

"High reliability” concepts drive section initiatives in patient safety and improvements in quality of care. Read more about our recent accomplishments.

Transforming respiratory care
A Respiratory Redesign Project initiated in partnership with Nursing is transforming delivery of respiratory care services. Christiana Care ranks among a select 15 percent of hospitals recognized by the American Association of Respiratory Care as a Quality Respiratory Care institution. One reason is relying on specially trained respiratory therapists to assist physicians with pulmonary function testing and delivery of respiratory services.

In the last five years, respiratory procedure volume has increased by 44 percent, correspondingly increasing workload by 23 percent. In 2010, respiratory-related events accounted for 47 percent of all Rapid Response Team (RRT) calls, the single largest reason for RRT initiation.

In FY10, 970 Rapid Response Team calls were for respiratory related reasons.
To ensure adequate resources and continued patient safety, a multidisciplinary team of respiratory therapists and nurses benchmarked targets and developed a new, team-based model for respiratory care. The model is service-focused and integrates RTs as stable members of the care team in each area. Central to this concept is nursing collaboration and partnership. Results just five months into the team pilot show potential for impact in many areas, including reducing ventilator length of stay and ventilator associated pneumonia, increasing extubations and transfers out of ICU, reducing ED readmission rates for asthmatics and COPD patients, better continuity of care through communication and collaboration among physicians, nurses and therapists, timely medication delivery, and increased patient satisfaction.

**Helping patients breathe easier**

The Christiana Care Pulmonary Function Lab offers a full range of tests to assist doctors in diagnosing and evaluating all aspects of pulmonary disease. The lab performs a combined average of 2,600 procedures a month at Wilmington and Christiana hospitals. These include spirometry to evaluate air flow when exhaling; lung volumes and airway resistance; bronchoscopy and thoroscopy to inspect inside the lungs and airways; arterial blood gas analysis to measure oxygen and carbon dioxide levels; supplemental oxygen evaluation and high altitude simulation testing; asthma diagnosis and evaluation, and cardio pulmonary exercise stress testing.

The Pulmonary Function Laboratory is accredited by the College of American Pathologists (CAP) and the Clinical Lab Improvement Amendments (CLIA) and follows American Thoracic Society Laboratory Guidelines.

**Interventional Pulmonology offers latest technologies**

Interventional Pulmonary encompasses a broad range of diagnostic and therapeutic pulmonary procedures to manage lung and pleural diseases. Members of the section of Pulmonary as well as Critical Care Physicians from both the Department of Medicine and Surgery employ both basic and advanced bronchoscopic skills as part of routine care. All bronchoscopies done outside of the operating room fall under the preview of Interventional Pulmonary service and the Department Respiratory Care.

<table>
<thead>
<tr>
<th>Diagnostic Bronchoscopy Procedures FY11</th>
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<tbody>
<tr>
<td>Transbronchial Needle Biopsy</td>
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<tr>
<td>Endobronchial Biopsy</td>
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<tr>
<td>Fiducial Placement</td>
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<tr>
<td>Airway Inspection</td>
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<tr>
<td>Broncho-alveolar Lavage (BAL)</td>
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<tr>
<td>Bronchial Brush Biopsy</td>
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<tr>
<td>Airway Inspection for Tracheostomy</td>
</tr>
<tr>
<td>Remove Foreign Body</td>
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<tr>
<td>Clear Airway - Initial</td>
</tr>
<tr>
<td>Clear Airway - Subsequent</td>
</tr>
<tr>
<td>Transbronchial Biopsy (TBBX)</td>
</tr>
</tbody>
</table>

In FY2011, 923 patients had bronchoscopic procedures performed at Christiana Care. A total of 76 percent of these patients had the procedure done for diagnostic purposes; 24 percent were
for therapeutic reasons, such as for laser treatment, to clear the airway, or to place a stent or markers for radiotherapy. Just over a third (36%) of all bronchoscopies were performed as an outpatient procedure.

Approximately 40 percent of bronchoscopies performed were ICU related. These included broncho-alveolar lavage (BAL) to collect secretions for microbiologic analysis, to clear blocked airways and to support percutaneous tracheostomy, a minimally invasive alternative to traditional tracheostomy.

The latest interventional bronchoscopy procedures were used in 364 cases and include:

- **Endobronchial Ultrasound** (EBUS) for guided lymph node biopsy.
- **Electro-magnetic Navigational Bronchoscopy** for lymph node biopsy and placement of markers for stereotactic radiation surgery (Cyberknife).
- **Rigid bronchoscopy** (RB) to treat endobronchial tumors, place stents or remove a foreign body from the airway.
- **Indwelling Bronchial Valve** (IBV) placement to treat bronchopleural fistula, an abnormal passage that can develop in the lungs.

**Promoting lung health for all Americans**
Delaware pulmonologist Albert A. Rizzo, M.D., was named the national volunteer chair of the American Lung Association board of directors. He just completed serving a two-year term as the Association’s highly visible nationwide assembly speaker. In his new role, Dr. Rizzo will work closely with top leaders to advance the organization’s mission of saving lives by improving lung health and preventing lung disease.

**Transitioning care for adults with cystic fibrosis**
In cooperation with Nemours/A.I. duPont Hospital for Children, the Adult Cystic Fibrosis (CF) Program facilitates the transition to adult care for children with the disease. In FY2011, there were 96 clinic visits, offering patients spirometry in collaboration with the Pulmonary Function Lab. The program contributes patient data to the Cystic Fibrosis Foundation data base and, through the CF Treatment Development Network, offers patients the opportunity to participate in the latest clinical trials of new drugs and new treatments. The program also offers treatment of cystic fibrosis related diabetes (CFRD).

**Adding continuous pulse oximetry to flex monitoring**
The latest enhancement to Christiana Care’s flex monitoring system is the addition of continuous-pulse oximetry, a non-invasive method of monitoring the oxygenation of a patient’s blood, along with the ECG monitoring with telemetry. This enhancement could help clinicians identify patients sooner who may be at risk for cardiac arrest. For the last decade, flex monitoring at Christiana Care has allowed for continuous ECG monitoring for any non-ICU
patient in any bed in either hospital, improving patient satisfaction and reducing costs by decreasing room transfers when a patient requires monitoring.

Renal & Hypertensive Diseases

Nationally recognized Kidney Transplant Program
Christiana Care’s nationally recognized adult kidney transplant program, a joint program with the Department of Surgery, is the only one of its kind in Delaware. The program is certified by the United Network for Organ Sharing to perform both living donor and deceased donor kidney transplants and led by an experienced team of transplant surgeons and professionals who provide optimum care for these complex patients. The program also offers medication management post transplant and living donor education, through the Department of Surgery.

For FY2011, the kidney transplant team performed 29 kidney transplants and 699 pre-transplant evaluations. There were 107 new patients added and 229 referrals.
Honors, Awards & Kudos

Congratulations to Medicine’s "Top Docs" -- Delaware Today Magazine 2011.

Teaching Awards

Matthew Burday, D.O., FACP, is the recipient of the 2011 Herbert S. Waxman Award for Outstanding Medical Student Educator from the American College of Physicians (ACP).

Hung Q. Dam, M.D., received the "Teacher of the Year" award from the Radiology residents.

Matt Dunn, M.D., was selected by the residents as Teacher of the Year for Pediatrics 2011.

Lionel Malebranche, M.D., won the 2011 Most Outstanding Resident Teacher of the Year award voted by third and fourth year medical students.

Jim Perkins, M.D., won the Mark W. Maxwell Award voted by Medicine residents for the attending who best demonstrates the characteristics of devotion to patients, compassion, humility, and extraordinary enthusiasm.

Ehsanur Rahman, M.D., FACC, was voted Teacher of the Year by Medicine residents.

Clinical Pearls

Congratulations to the 8th annual Clinical Pearls speakers:

Michael Benninghoff, D.O., Pulmonary & Critical Care Medicine; Vinay Maheshwari, M.D., FCCP, Pulmonary & Critical Care Medicine; Ehsanur Rahman, M.D., FACC, Cardiology; Tabassum Salam, M.D., Internal Medicine; Mitchell Saltzberg, M.D., Cardiology; and Pamela Simpson, M.D., Oncology.

Focus on Excellence Awards

2010 President’s Award

No One Dies Alone. Colleagues from Pain and Palliative Care, Volunteer Administration, Pastoral Services, Nursing and Infection Prevention, developed a program to provide a companion at the end of life to patients who have no family or friends present.
2010 Nursing Excellence Silver Award

*March Madness Meets the MICU.* The MICU’s Quality and Safety Committee used an interactive game to improve compliance with the Electronic Medication Administration Record scanning process.

2010 Safety First Silver Award

*Improved Prescribing and Reduction in Adverse Events Due to Thoughtful CPOE Design:* The Pharmacy & Therapeutics Committee authorized the development of a multidisciplinary task force to focus on the overuse/misuse of hydromorphone.

2010 Clinical Excellence Gold Award

*Implementation of Medication Management Standards in Nuclear Medicine:* Working together, Nuclear Medicine, Pharmacy, and Nursing increased compliance from 21 to all 77 Joint Commission radiopharmaceutical standards within three months.

2010 Clinical Excellence Silver Award

*The Heart Alert/Heart Code Coverage Program:* The Center for Heart & Vascular Health, Emergency Department and Performance Improvement modified the Heart Alert/Heart Code program coverage by interventional cardiologists and increased the percentage (by 70%) of acute myocardial infarction patients going to the cardiac catheterization lab for reperfusion therapy (PCI) within 60 minutes of hospital arrival. Median time to PCI decreased from 68 to 54 minutes.
Other Awards

*Patricia Curtin, M.D., section chief of Geriatric Medicine,* has completed three trips to Leogane, Haiti.

**Hector Colon**, social worker, HIV Program, received The Community Leadership award in November 2010.

**Patricia M. Curtin, M.D., FACP, CMD**, received the 2011 Spirit of Women Health Care Hero Award (national coalition/CCHS program) for work with the elderly, the community, and the University of Notre Dame-Haiti program.

**John Donnelly, M.D. and Allen Friedland, M.D.,** were voted Delaware Valley’s Favorite Kids’ Docs 2010 by *MetroKids* magazine.

**Allen Friedland, M.D.,** received the 2010 National Med-Peds Resident’s Association Inaugural Appreciation Award.

**Geriatrics** was one of 18 programs recognized as a Model Geriatrics Program at the American Geriatrics Society 2010 Annual Meeting.

**Tom Hilton, M.D.,** was named a "Recognized Provider" in Diabetes Care by Bridges to Excellence.

**HIV Program’s** Georgetown Satellite was awarded the 2010 Partner Award from the Delaware Division of Public Health.
HIV Program Medical Director Susan Szabo, M.D., and Program Director Arlene Bincsik, RN, MS, CCRC, CRN, were featured in a Delaware Today article highlighting Christiana Care’s leadership and community outreach fighting HIV/AIDS with clinics throughout Delaware, April 2011.

Jennifer LeComte, D.O., won the 2010 Howard Schubiner Award from National Med-Peds Residents Association given to the resident who exemplifies excellence including exemplary clinical care of patients, compassion and humanism in relationships with patients and colleagues; involvement in community; and contributions to field of Medicine-Pediatrics.

M.J. Lenhard, M.D., received the 2011 Leonard Lang Award, from the American College of Physicians, Delaware Chapter.

Denise Lyons, MSN, GCNS-BC, Geriatrics, was selected to attend the 2011 John A. Hartford Foundation Interdisciplinary Scholars Communications Conference in July.

Vinay Maheshwari, M.D., FCCP, was recognized as a 2010 "Rising Star” from the Department of Medicine by the Christiana Care Medical-Dental Staff.

Jo Ann Malgieri, FNP-C, MSN, RN, Pain and Palliative Care specialist, won the End of Life Coalition’s 2010 Excellence Award for Hospice and Palliative Care.

Mark Manchen, social worker, received the Impact Award at the 2011 Delaware HIV Consortium WOW wards, May 6, 2011.

Jo Melson, MSN, RN, FNP-BC, Ruth Mooney, Ph.D., MN, BSN, Michelle Kane, RN, BSM, James McWilliams, RN, BSN, and Terry Horton, M.D., FACP, are winners of The Permanente Journal (TPJ) 2010 Service Quality Award for improving patient care, presented in partnership with the Institute for Healthcare Improvement (IHI).

Respiratory Care team was recognized in 2011 by the American Association for Respiratory Care (AARC), a national quality organization, for strict safety and quality standards related to the delivery of respiratory care services by qualified respiratory therapists.

Donald Riesenberg, M.D., received the 2010 Delaware End of Life Coalition Physician’s Excellence Award for Hospice and Palliative Care and was named Medical Director of the Year by the 2011 Delaware Health Care Facilities Association for his work at Stonegates Heath Care and Retirement Community.

Carolyn Savini, FNP, HIV Georgetown, received the 2010 Frank Lamendola Achievement Award for Excellence in Nursing from the Association of Nurses in AIDS Care (ANAC).
Maureen Seckel, RN, ACNS-BC, CCRN, CCNS, was elected to the board of directors of the American Association of Critical-Care Nurses (AACN) for a three-year term, 2010-2013.

R. Bradley Slease, M.D., received the President's Award from the Delaware Chapter of the Leukemia and Lymphoma Society.

Linda Sydnor, MSN, GCNS-BC, Geriatrics, was named to the Nominating Committee for GAPNA (Geriatric Advance Practice Nurse Association.) She also completed her Post Master's Certification for Adult/Geriatric NP in May 2011.

Mary Kay Sullivan, FNP, HIV program, received the Ryan White Award at the 2011 Delaware HIV Consortium WOW Awards, May 6, 2011.

Helen Ting, M.D., was named a "Recognized Provider" in Diabetes Care by Bridges to Excellence.

William Weintraub, M.D., received the 2011 American College of Cardiology Distinguished Service Award.

Congratulations to Medicine’s "Top Docs” listed in the Spring-Summer 2011 Health & Wellness issue of Delaware Today Magazine.

Allergy & Immunology

Gregory Marcotte, M.D.

Cardiovascular Disease (Section of Cardiology)

Anthony Furey, D.O.

Edward Goldenberg, M.D.

Gilbert Leidig, M.D.

George Moutsatsos, M.D.

Michael Stillabower, M.D.

Dermatology

Christopher Conti, M.D.
Heidi Kozic, M.D.
Peter Panzer, M.D.
Scott Panzer, M.D.
Marguerite Thew, M.D.

Electromyography

Enrica Arnaudo, M.D. (Section of Neurology)
Anthony L. Cucuzzella, M.D. (Section of Physical Medicine & Rehabilitation)
Craig Sternberg, M.D. (Section of Physical Medicine & Rehabilitation)

Endocrinology

Ripu Hundal, M.D.
James Lenhard, M.D.
Valerie West, M.D.

Gastroenterology

George Benes, M.D.
Warren Butt, M.D.
Michael Brooks, M.D.
Joe Chodos, M.D.
Marciana Filippone, M.D.
Amy Patrick, M.D.

Geriatrics

Patricia Curtin, M.D.
Hematology
Frank Beardell, M.D.
Andrew Himelstein, M.D.
R. Bradley Slease, M.D.

Infectious Disease
Wesley Emmons, M.D.
Anand Panwalker, M.D.
John Reinhardt, M.D.
Marshall Williams, M.D.

Internal Medicine
Matthew Burday, D.O.
Donald Hayes, M.D.
Timothy Hennessy, M.D.
James Loughran, M.D.
Helen Ting, M.D.

Nephrology
Robert Cox, M.D.
Gertrude Findley-Christian, M.D.
Joseph Kuhn, M.D.
Michael Polnerow, D.O.
Lindsey Slater, M.D.

Neurology
Charles Bean, M.D.
Michael Carunchio, M.D.
Lanny Edelson, M.D.
Alan Fink, M.D.

Oncology
David Biggs, M.D.
Stephen Grubbs, M.D.
Michael Guarino, M.D.

Pulmonary & Critical Care Medicine
John Chabalko, M.D.
John Goodill, M.D.
Clifton Hunt, M.D.
Mark Jones, M.D.
Gerald O'Brien, M.D.
Albert Rizzo, M.D.
Marc Zubrow, M.D.
Rheumatology

Shakaib Qureshi, M.D.

Monica Snowden, M.D.

Top photo, Scott Panzer, M.D. and, above, Cynthia Webster, are two of the dermatologists who volunteer at Christiana Care skin cancer screenings.
Appointments

Roi Altit, M.D., is the Board of Trustees Representative for the Medical Society of Delaware Resident and Fellow Section Leaders.

Tony Bianchetta, M.D. and Allison Buonocore, M.D., were inducted as Fellows of the American College of Physicians in 2011.

Patricia M. Curtin, M.D., FACP, CMD, was appointed senior clinical advisor in the Hartford Institute for Geriatric Nursing NYU College of Nursing and was named interim medical director of the Swank Memory Care Center.

Michael DePietro, M.D., was named medical director, MICU research.

Daniel Elliott, M.D., MSCE, FACP, was inducted as a Fellow of the American College of Physicians in 2010.

Deborah Ehrenthal, M.D., is a reviewer on the Special Emphasis Panel/Scientific Review Group for the CDC Pregnancy Risk Assessment and Monitoring System, 2011.

Jennifer Gauntt, M.D., was a 2010 representative to the National Academy of Pediatrics.

Keith D. Lamb, RRT, received a four-year appointment to chair the American Association for Respiratory Care (AARC) Adult Acute Care Section, and will serve on the AARC board of directors.

Jennifer LeComte, D.O., was named resident/young physician liaison (inaugural) to the Delaware State Osteopathic Medical Society in 2010.

M. James Lenhard, M.D., began a two-year term (January 2011-December 2012) on the American Diabetes Association’s Professional Practice Committee. He was the 2010 Diabetes Gala Honorary Chair for the American Diabetes Association, DelMar chapter.

Denise Lyons, MSN, GCNS-BC, was appointed a clinical advisor in the Hartford Institute for Geriatric Nursing. She is also president-elect 2011 for the Gerontological Advanced Practice Nurses Association (GAPNA) Delaware Valley Chapter.

Rani Singh-Patel, D.O., was inducted as a Fellow of the American College of Physicians in 2011.
Badrish Patel, M.D., was appointed medical director of the Christiana Hospital Medical Intensive Care Unit (MICU).

Shakaib Qureshi, M.D., FACR, is the newly elected president of the Delaware Rheumatology Society.

Andrea Read, D.O., was elected Resident and Fellows President of the Medical Society of Delaware, 2010.

Theodore F. Saad, M.D., was elected secretary of the Vascular Access Society of the Americas.

R. Bradley Slease, M.D., is governor-elect of the Delaware Chapter of the American College of Physicians. His four-year term begins in April, 2012.

Albert Rizzo, M.D., was elected chair of the National Board of Directors for the American Lung Association.

Karla Testa, M.D., was a 2010 representative to the National Med-Peds Residents Association.

William Weintraub, M.D., is president-elect of the Great Rivers Affiliate of the American Heart Association.
Selected Publications


Intenzo C, Dam HQ, Manzone TA. Planar imaging of the thyroid in benign and malignant disease. Seminars in Nucl Med. (in review).


and outcomes of acute myocardial infarction and percutaneous coronary intervention: a report from the National Cardiovascular Data Registry (NCDR). JACC 2010;56:254-263.


Saad TF, Myers GR, Cicone JS. Central vein stenosis or occlusion associated with cardiac rhythm management device leads in hemodialysis patients with ipsilateral arteriovenous access: A retrospective study of treatment using stents or stent-grafts. Journal of Vascular Access.11:293-302, 2010.


Selected Abstracts/Posters

Aboff B, Burday M, Salam T, Edwards C. Understanding Your Obligations with Resident Disability, Maternity, Paternity, and FMLA presented as workshops at the 2011 Association of Program Directors in Internal Medicine (APDIM) Program Administrators Meeting and the 2011 APDIM Spring Conference, April 10-13, 2011 in Las Vegas, NV.

Abraham N, Zhu D, Morrone D, DiSabatino A, Murphy D, Doorey A. Efforts to Decrease the Door to Balloon Time Might Increase the Incidence of Unnecessary Emergency Cardiac Catheterization and Delay Appropriate Care; ACC 2011.

Abramson-Chen E [presenter], Khan OA, Raman T. Perceptions of Smoking and Lung Cancer in New Castle County, Delaware. Christiana Care Health System, Research & Education Week. Winner, Gelb Award. April 2011.

Billig-Figura K. Suspected Levamisole Contaminated Cocaine Induced Vasculitis; National ACP Poster Presenter 2011 and 1st place Delaware ACP Poster.


Brolis N, Milasincic N, Nnebe NS. Coagulopathy in Alcohol-Induced Cirrhosis: To Bleed or Not to Bleed? Presented at ACP 2011.


Elliott DJ, Robinson EJ, Stillman P. Patient-Reported Outcomes from a Copayment Elimination Project. Poster presentation at Academy Health Annual Meeting May 2011, Seattle, WA.

Elliott; DJ, Rahmer B, Michalec B, Dunn M, Prater C, Zent R, Ewen E, Fagan HB. Using a Report Card to Improve the Quality of Care for Patients with Diabetes. Podium presentation at Society for General Internal Medicine Mid-Atlantic Regional Meeting 2011, Baltimore, MD; Poster presentation at Society of General Internal Medicine National Meeting, May 2011, Phoenix, AZ.


HIV Program’s submission on "Long Term Medication Adherence," received the Innovation in Research Award at the Ryan White All Titles Meeting in Washington, DC, August 25, 2010.

HIV Program Patient Centered Care presented at the AHRQ Health Care Innovation Exchange and the National Target Center, October 2010.


Jordan J, Singh-Patel R, Elliott DJ. Effect of a Multi-Disciplinary Admitting Team on the Quality and Efficiency of Inpatient Care. Poster presentation at Society of General Internal Medicine Mid-Atlantic Regional Meeting March 2011, Baltimore, MD. Poster presentation at Society of


Malodiya A, Qureshi S. Palms that Unraveled an Occult Carcinoma! Delaware Chapter ACP Abstract Award, presented at ACP 2011.


Meeting of the American Society for Metabolic and Bariatric Surgery, Dallas, TX, June 2011 and published in Surgery for Obesity and Related Diseases 2011 (7) Poster P-30.


Milasincic NM, Elliott DJ, Friedland A, Drees M, Silverstein J. Improving Academic Standards for 4th Year Medical Students. Poster presentation at Society of General Internal Medicine Mid-Atlantic Regional Meeting March 2011, Baltimore, MD.


Popescu AM, Leidig LA, Marcoff L, Murphy D, Weintraub WS, Rahman E. Transient No Reflow/Slow Flow During Elective Percutaneous Coronary Interventions is Rarely Associated With Early, In-Hospital Complications. Accepted to ACC 2011.


Rajamanickam A. A Comprehensive and user-friendly online calculator for predicting the risk of contrast induced nephropathy (CIN). Presented at SCAI 2011.
Rajamanickam A. Risk of permanent hemodialysis after cardiac catheterization for contrast for contrast induced nephropathy (CIN). Presented at SCAI 2011.


Read A, DeCouto S. RITE->O, Residents Improving Transitions of Care: ED to Outpatient. Presented at the Alliance of Academic Medical Centers’ National Initiative Conference, 2011.

Reed D, Aboff B, Chelminski P, Call S. Update in Graduate Medical Education: Systematic Literature Review of High Impact Graduate Medical Education Research in 2010 presented at the 2011 APDIM Spring Conference on April 12, 2011 in Las Vegas, NV.


Troiano M. Venous Thrombosis, Pulmonary Embolism and Factor VII Deficiency Delaware ACP Meeting 2010. Second Place Student Poster.


Zhang Y, Rajamanickam A. Pre-hospital ECG Can Shorten Door to Balloon Time in Patients with STEMI. Presented at SCAI 2011.
Zhang Y. Gender Difference Seems to Disappear with Strategies to Improve Overall Door to Balloon Time. Presented at QCOR 2011.


Leadership Committees

**Christiana Care Medicine Leadership Team (MLT)**
The MLT meets weekly and advises the Hugh R. Sharp, Jr. Chair of Medicine on operational and strategic issues pertaining to Christiana Care Medicine. It consists of the vice chair, all associate chairs, the medical director of Christiana Care Hospitalist Partners, and the Medicine vice president. When relevant, other departmental leaders with expertise in the topic(s) under discussion are invited to attend.

**Executive Committee**
In addition to the Medicine Leadership Team the other key departmental leadership committee is the Executive Committee which consists of section chiefs, elected departmental representatives, and other senior leaders. It meets monthly and serves an important decision making and advisory role. As the pace of change increases at Christiana Care in response to health care reform, input will be critical from these department leaders, who serve as liaisons and representatives of the private and employed physicians in their sections.

**Medicine Leadership Team:**

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

Robert M. Dressler, M.D., MBA, FACP, Vice Chair, Director of Operations, IMSL, Director of Patient Safety, Quality and Performance Improvement

Julie Silverstein, M.D., FACP, Associate Chair, Ambulatory Medicine, Section Chief, General Internal Medicine

Brian M. Aboff, M.D., FACP, Associate Chair, Education, Program Director, Internal Medicine and Transitional Year Residency Programs

Allen Friedland, M.D., FACP, FAAP. Program Director, Medicine-Pediatrics Residency Program

Michael Eppehimer, MHSA, Vice President

Dan Elliott, M.D., MSCE, Acting Associate Chair for Research

Edmondo Robinson, M.D., MBA, FACP, Medical Director, Christiana Care Hospitalist Partners
Executive Committee:

Virginia U. Collier, M.D. - Chair

Brian Abaff, M.D., Associate Chair, Education and Program Director, Internal Medicine & Transitional Year, Education Committee Chair

Kunal Bhagat, M.D., Member At Large

David Biggs, M.D., Oncology Section Chief

Joanne Brice, M.D., Chief, Division of Hospital Medicine

Matthew Burday, D.O., Member At Large

Robert Cox, M.D., Section Chief, Renal and Hypertensive Diseases

Patricia Curtin, M.D., Section Chief, Geriatrics

Anthony Cucuzzella, M.D., Chair, Department of Medicine Credentials Committee

Robert Dressler, M.D., Vice Chair of Medicine and Director of Patient Safety, Quality and Performance Improvement

Michael Eppehimer, MHSA (ex officio), Medicine Vice President

Kelly Eschbach, M.D., Section Chief, Physical Medicine & Rehabilitation

Marciana Filippone, M.D., Gastroenterology Section Chief

Allen Friedland, M.D., Medicine-Pediatrics Section Chief and Program Director, Medicine-Pediatric Residency Program

John Goodill, M.D., Pain & Palliative Care Section Chief

Robert Kopecki, D.O., Member At Large

M. James Lenhard, M.D., Endocrinology Section Chief and Chair, Department of Medicine Clinical Research Committee

Roy Kao, M.D., Assistant Chief of Service
Timothy Manzone, M.D., Nuclear Medicine Section Chief

Thomas Mueller, M.D., Neurology Section Chief

Anand Panwalker, M.D., Infectious Disease Section Chief

Shakaib Qureshi, M.D., Rheumatology Section Chief

Albert Rizzo, M.D., Pulmonary & Critical Care Medicine Section Chief

Julie Silverstein, M.D., Associate Chair, Ambulatory Medicine and Section Chief, General Internal Medicine, and Chair, Department of Medicine Professional Excellence Committee

R. Bradley Slease, M.D., Hematology Section Chief

William Weintraub, M.D., Cardiology Section Chief

Marc Zubrow, M.D., Medical Director, eCare

**Section Chiefs:**

Greg Marcotte, M.D.
Allergy & Clinical Immunology

William Weintraub, M.D.
Cardiology

Peter Panzer, M.D.
Dermatology

M. James Lenhard, M.D.
Endocrinology and Metabolic Diseases

Marcianna Filippone, M.D.
Gastroenterology

Patricia Curtin, M.D.
Geriatrics

R. Bradley Slease, M.D.
Hematology
Anand Panwalker, M.D.  
Infectious Disease

Julie Silverstein, M.D.  
Internal Medicine

Joanne Brice, M.D.  
Division of Hospital Medicine

Terry Horton, M.D.  
Division of Addiction Medicine

Allen Friedland, M.D.  
Medicine-Pediatrics

Thomas Mueller, M.D.  
Neurology

Timothy Manzone, M.D.  
Nuclear Medicine

David Biggs, M.D.  
Oncology

Carine Sakr, M.D.  
Occupational/Preventive Medicine

John Goodill, M.D.  
Pain & Palliative Care

Kelly Eschbach, M.D.  
Physical Medicine & Rehabilitation

Albert Rizzo, M.D.  
Pulmonary & Critical Care Medicine

Robert Cox, M.D.  
Renal & Hypertensive Diseases

Shakaib Qureshi, M.D.  
Rheumatology
Committee Membership

Clinical Research Committee: Meets Monthly

M. James Lenhard, M.D. - Chair

Jerry Castellano, PharmD. (non voting)

Virginia Collier, M.D., Chair, Department of Medicine, ex-officio

Michael DePietro, M.D.

Marci Drees, M.D.

Deborah Ehrenthal, M.D.

Daniel Elliott, M.D.

Michael Eppehimer, Vice President, Dept of Medicine

Ed Ewen, M.D.

Orsolya Garrison, MPH, Director, Academic Affairs

Michael Guarino, M.D.

Rubeen Israni, M.D.

Claudine Jurkovitz, M.D.

Roy Kao, M.D. Assistant Chief of Service

Michael Stillabower, M.D.

Doriel Ward, Director of Research, Academic Affairs

William Weintraub, M.D.
Credentials Committee: Meets Monthly

Anthony Cucuzzella, M.D. - Chair
Edward McConnell, M.D. - Vice Chair
Joanne Brice, M.D.
William Dahms, D.O.
Marciana Filippone, M.D.
Allen Friedland, M.D.
Donald Hayes, M.D.
Ehsanur Rahman, M.D.
R. Bradley Slease, M.D.
Marc Zubrow, M.D.

Education Committee: Meets Monthly

Brian Aboff, M.D. – Chair, Program Director, Internal Medicine & Transitional Year
Frank Beardell, M.D., Hematology
Kunal Bhaghat, M.D., Hospital Medicine
Matthew Burday, M.D., Associate Program Director
Jeff Cicone, M.D., Nephrology
Virginia Collier, M.D., Hugh J. Sharp, Jr. Chair of Medicine, ex officio
Patricia Curtin, M.D., Geriatrics
Joseph Deutsch, M.D., Hospital Medicine
John Donnelly, M.D., Assistant Program Director & Director Ambulatory Education

Allen Friedland, M.D., Program Director, Medicine-Pediatrics

Ripu Hundal, M.D., Endocrinology

Roy Kao, M.D., Assistant Chief of Service

John Kelly, M.D., Cardiology

Stephanie Lee, M.D., Infectious Diseases

Vinay Maheshwari, M.D., Pulmonary

Badrish Patel, M.D., Critical Care Medicine

Amy Patrick, M.D., Gastronenterology

Shakaib Qureshi, M.D., Rheumatology

Jim Ruether, M.D., Hospital Medicine

Tabassum Salam, M.D., Associate Program Director

Sarah Schenck, M.D., Director, Adult Medicine Office

Julie Silverstein, M.D., Director, Patient Safety & Performance Improvement and Section Chief, General Internal Medicine

Pamela Simpson, M.D., Oncology

Marc Zubrow, M.D., Member at Large
Nominating Committee: *Meets Once Every Two Years*

James Ruether, M.D. – Chair
Valerie West, M.D.
Reynold Agard, M.D.
James Loughran, M.D.

Professional Excellence Committee: *Meets Monthly*

Julie Silverstein, M.D. – Chair
Kunal Bhagat, M.D., CMG
Marc Corso, M.D., Gastroenterology
John Donnelly, M.D., Medicine Faculty
Robert Dressler, M.D., Vice Chair, Department of Medicine
Malik Gilani, M.D., Community GIM
Wes Emmons, M.D., Infectious Disease
Roy Kao, M.D., Assistant Chief of Service, 2011-2012
Badrish Patel, M.D., Pulmonary & Critical Care Medicine
Edmondo Robinson, M.D., CCHP
Jessica White, M.D., Administrative Fellow, Department of Medicine
Kambiz Butt, M.D., IPC - Hospitalists of Delaware
Physician Ambassadors 2010

Congratulations to our 2010 Physician Ambassadors who exemplify "the very best" performers on their side of the physician-nurse relationship. Nominated and selected by nurses, Physician Ambassadors promote excellence in nursing care while fostering a collegial and supportive working environment.

Michael Benninghoff, D.O. – WICU

Kevin Boyle, M.D. - Cath Lab

Matthew Burday, D.O. - Internal Medicine Faculty Practice

Kambiz Butt, M.D. - 6E

Billy Chasanov, D.O. - MICU

Steve Cozamanis, D.O. – 4S JRC

William Dahms, D.O. - Hemodialysis

John Donnelly, M.D. - Oncology & VNA NCC Branch

Dan Elliott, M.D. - WHHC Adult Medicine Office

Wesley Emmons, M.D. - Per Diem & IV Nursing

Kelly Eschbach, M.D. - 6 N/S Rehab

Steven Falchuk, M.D. - 6B

Gaurav Jain, M.D. - GI Lab

Azhar Khan, M.D. - 3 East

Vinod Kripalu, M.D. - 5C & 6A

Gilbert Leidig, M.D. - CDU

M. James Lenhard, M.D. - Development and Education

Michael Longo, M.D. - 5 E/W
Thomas A. Mathew, M.D. - 5A

Erin Meyer, D.O. - 5D

Jamal Misleh, M.D. - BMT

Azita Moosavy, M.D. - 4 E/W & 5S ACE

Joseph Pennington, M.D. - 5E & EP Lab

Wasif Qureshi, M.D. - 4E & Non-Invasive Lab

Mitchell Saltzberg, M.D. - CICU

Ragu Sanjeev, M.D. - 3D

Pamela Simpson, M.D. - Regional Hematology Office

Avilino Verceles, M.D. - eCare
Mike Eppehimer, MHSA, Vice President

Mike Eppehimer has been with Christiana Care since March 2010. In his role as Medicine vice president, he has been working extensively on the new Inpatient Medicine Service Line while assisting the chair and vice chair of Medicine on Department of Medicine and interdepartmental programs and projects, such as the Unit-Based Clinical Leadership Program and Christiana Rapid Transfer Initiative.

Paula Barnes, Administrative Assistant, Medical Student Education Program

- Coordinates Internal Medicine medical student rotations.
- Maintains Department conference calendar.
- Supports Infectious Disease section.
- Conference in conjunction with Medicus.
- Coordinates Resident Core Lecture series.

Deborah Brown, Administrative Assistant to Medicine's Vice President

- Supports Medicine Leadership Team.
- Coordinates Honorarium contracts and payments.
- Provides administrative support to multi-departmental clinical improvement projects, such as the CRTI Procedure Team.
- Supports Finance Program manager.
Marcia Bukay, Supervisor

- Supports Medicine Leadership Team.
- Supervises and provides performance management operations for two residency coordinators and five administrative assistants.
- Acts as timekeeper.
- Coordinates hiring practices for the administrative support personnel, physician assistants, research nurses, nurse practitioners and consulting internets.
- Supports the Pain & Palliative Care Consult Team.
- Member, Department of Medicine SharePoint Governance Board.

Sherry Donald, Administrative Assistant

- Supports Performance Improvement and Patient Safety, General Internal Medicine Section, Adult Medicine Office and Ambulatory Medicine Research & Outcomes.
- Supports the Wilmington Hospital office.
- Maintains the faculty physicians schedules in Amion.
- Scans/Indexes Internal Medicine Faculty Practice patient information into patient electronic file.

Christy Edwards, Coordinator, Internal Medicine & Transitional Year Residency Programs

- Supports the Medicine Education Committee.
- Supports program recruiting and orientation.
- Participates in program marketing, communications and event planning.
- Supports program compliance.
- Member, Department of Medicine SharePoint Governance Board.
Marykay Ennis, Executive Assistant to the Chair

- Supports the Department of Medicine Executive Committee, Chair’s Management Council, and Inpatient Medicine Service Line Steer.
- Assists with the daily financial operations of the department and contract management in conjunction with Medicine’s Vice President.
- Coordinates the Jefferson Medical College faculty appointment and promotion process.
- Coordinates the Consulting Internist application process.
- Member, Department of Medicine SharePoint Governance Board.
- Pursing MBA in Healthcare Administration.

Adrian Fedyk, Finance Program Manager

- Leads development of Medicine’s data warehouse.
- Provides accounting support for Research finances.
- Provides analytical support for clinical re-design efforts.
- Coordinates the department’s contract management in conjunction with Vice President.
- Member, Department of Medicine SharePoint Governance Board.
- Department and Medicine Service Line Finance Lead in training for Six Sigma Black Belt.

Arlene Friedman, Administrative Assistant

- Supports Geriatric Medicine and Wilmington Hospital Consult Service.
- Schedules resident ambulatory rotations.
- Schedules, posts all updates and forwards Medicine Inpatient Consultations (Ward and Unassigned).

Orsolya Garrison, (DrPH in progress), Administrative Director, Department of Medicine Research

- Collaborates in creation and implementation of new systems, policies and procedures for the Office of Sponsored Programs.
- Participates in Department’s Research & Scholarly Activity (RSA) efforts.
- Works with Department faculty, principle investigators and staff on developing and improving our RSA processes.
Debbie Harris, C-TAGME, Coordinator, Med-Peds Residency Program and Nephrology Fellowship Program
One of only three at Christiana Care certified as a Training Administrator of Graduate Medical Education (C-TAGME), Debbie Harris led a national task force to establish this professional certification.

- Supports Med-Peds residency program leadership.
- Supports Nephrology Fellowship Program.
- Supports recruiting for the Med-Peds residency program.
- Coordinates 4th year medical student elective.

Brooke Knight, Executive Assistant to Medicine’s Vice Chair

- Supports the Medicine’s vice chair and leadership team.
- Supports clinical redesign projects including Christiana Rapid Transfer Initiative led by the Department.
- Supports Division of Hospital Medicine.
- Member, Department of Medicine SharePoint Governance Board.

Elizabeth McKee, Administrative Assistant, Internal Medicine Residency Program

- Supports associate and assistant program directors and program coordinator.
- Prepares, updates and follows up on the Internal Medicine resident elective schedules, evaluations, procedures lists, mailings, and conference attendance.
- Schedules resident elective rotations.
- Coordinates Medical Grand Rounds in conjunction with Medicus and Tabassum Salam, M.D.
- Coordinates the PGY-2 and PGY-3 annual retreats.
Welcome New Physicians

We welcomed 15 new physicians to the Department in FY2011.

Medicine/Cardiology

Heather L. Horton, M.D., Ph.D., CC Cardiology of Southern Chester County

Medicine/Dermatology

Matthew R. Hanson, M.D., Panzer Dermatology Associates, P.A.

Medicine/Internal Medicine

Andrew J. Abraham, M.D., CCHP, CC Hospitalist Partners
Gabriele Blumberg, M.D., Brandywine Medical Associates
William M. Chasanov, II, D.O., CCHP, CC Hospitalist Partners
Ralph Gonzalez, Jr., M.D., IPC - Hospitalists of Delaware
Steven P. Greer, M.D., Christiana Medical Group, P.A.

Medicine/Medical Oncology

Ramya Varadarajan, M.D., Regional Hematology/Oncology
Medicine/Medicine Pediatrics

Nancy Fleurantois, M.D., CCHP, CC Hospitalist Partners
Elizabeth H. Muth, M.D., CCHP, CC Hospitalist Partners
Adam M. Rudnick, M.D., Rockwood Family Medicine

Medicine/Neurology

Alexandra E. Landen, D.O., Christiana Care Neurology Specialists
Jason M. Silversteen, D.O., Christiana Care Neurology Specialists

Medicine/Occupational Medicine

Harold M. Spangler, M.D., Christiana Care Health Services

Medicine/Pulmonary & Critical Care Medicine

Muhammad B. Bostaji, M.D, Pulmonary Associates