Breast Surgical Oncology Fellowship
Christiana Care Health System

Diana Dickson-Witmer, MD, FACS
Medical Director, CCHS Breast Center and Breast Program
Christiana Care Health System

• Delaware’s largest private employer.
  More than 11,000 employees.

• Extensive range of outpatient services.

• Major teaching hospital with four campuses.
  Largest teaching affiliate hospital for Sidney Kimmel Medical College at Thomas Jefferson University, training more than 280 residents annually.

• Net operating revenue of $1.66 billion.
# CCHS Clinical Impact

<table>
<thead>
<tr>
<th></th>
<th>Cases</th>
<th>East Coast Ranking</th>
<th>US Ranking</th>
</tr>
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<tbody>
<tr>
<td>Admissions</td>
<td>53,072</td>
<td>10</td>
<td>21</td>
</tr>
<tr>
<td>Births</td>
<td>6,469</td>
<td>15</td>
<td>32</td>
</tr>
<tr>
<td>Surgical Procedures</td>
<td>38,712</td>
<td>14</td>
<td>29</td>
</tr>
<tr>
<td>ED Visits</td>
<td>187,317</td>
<td>13</td>
<td>21</td>
</tr>
</tbody>
</table>

The Only Level 1 Trauma Program Between Philadelphia & Baltimore
With more than 227,000 patient visits (2016), the HFGCC is recognized as a national model for multidisciplinary cancer care & a top enroller in U.S. clinical research trials.

- The Center for Translational Cancer Research, Tissue Procurement Center, Gene Editing Institute, statewide High-Risk Family Cancer Registry.

- Collaborations with world-renowned scientists at facilities such as the University of Delaware and The Wistar Institute in Philadelphia are opening new avenues to more quickly translate cancer science into cancer medicine.
Helen F Graham Cancer Center and Research Institute

Multidisciplinary Disease Site Centers at HFGCC

1. Breast Cancer
2. Colon, Rectal and Anal Cancer
3. Genitourinary and Prostate Cancer
4. Gynecologic Oncology
5. Head and Neck Cancer
6. Hepatobiliary and Pancreatic Cancer
7. Lymphoma
8. Sarcoma, Bone Cancer and Melanoma
9. Skin Cancer
10. Thoracic, Esophageal and Lung Cancer
11. Young Adult
In the Jan. 3, 2017 issue of the scientific journal PLOS ONE, a team of researchers led by Eric Kmiec, Ph.D., Director of the Gene Editing Institute at the Helen F. Graham Cancer & Research Institute at Christiana Care, published its findings using a modified version of the cutting-edge CRISPR/Cas9 gene editing technique. (Patent Submitted)
Breast Cancer Research

Investigator Initiated Breast Cancer Research

1. A blood-based biopsy for breast cancer
   PI: Jennifer Sims-Mourtada, PhD

2. Modeling of Breast Cancer Risks in Delaware
   PI: Jennifer Sims-Mourtada, PhD

3. Inflammation as a driver of triple negative breast cancer
   PI: Jennifer Sims-Mourtada, PhD

4. Understanding breast cancer dormancy and reactivation to prevent recurrence
   PI: April Kloxin, PhD

5. Nanoshell-Based Spherical Nucleic Acids for targeted treatment of breast cancer
   PI: Emily Day, PhD

6. Risk Factors for Breast Cancer Incidence and Outcomes in African Americans
   PI: Jennifer Sims-Mourtada, PhD

7. Barriers to participation in genetic testing and research in the African American Community
   PI: Jennifer Sims-Mourtada, PhD and Zohra Ali-Khan Catts, MS LCGC

8. Improving protocols for accurate diagnosis of Atypical ductal hyperplasia, Atypical lobular Hyperplasia or malignant disease in biopsy specimens
   PI: Diana Dickson-Witmer, MD, FACS
Ruth Ann Minner High Risk Familial Cancer Registry

- Familial Cancer Risk Assessment Program (2002 to 2016)
  - Only program in the State
  - Over 7400 Individuals
  - Over 250,000 Family Members
  - 5 full time licensed genetic counselors

- Family Registry Biorepository (2008 to 2016)
  - 690 samples from 607 families

- ACGME Accreditation for Masters Degree Program in GC – January 2017
Christiana Care Breast Cancer Analytic Cases

Decrease since 2013 reflects success of genetics program.
2016 Totals, Breast Imaging and Percutaneous Breast Procedures

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>MG - Screening</td>
<td>29,080</td>
</tr>
<tr>
<td>MG – Diagnostic</td>
<td>4,936</td>
</tr>
<tr>
<td>US</td>
<td>6,528</td>
</tr>
<tr>
<td>MRI</td>
<td>819</td>
</tr>
<tr>
<td>Stereo – Surgeon</td>
<td>587</td>
</tr>
<tr>
<td>Stereo – Radiologist</td>
<td>64</td>
</tr>
<tr>
<td>US bx – Surgeon</td>
<td>1124</td>
</tr>
<tr>
<td>US bx – Radiologist</td>
<td>118</td>
</tr>
<tr>
<td>MRI bx – Radiologist</td>
<td>174</td>
</tr>
<tr>
<td>MG – NP</td>
<td>347</td>
</tr>
<tr>
<td>total</td>
<td>43,777</td>
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Christiana Care Breast Center Earns national award for patient experience

2016 Guardian of Excellence Award from Press Ganey recognizes outstanding achievement based on data from patients.
Breast Histology and Cytology, 2016

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<tbody>
<tr>
<td>Breast Core Biopsies</td>
<td>2565</td>
</tr>
<tr>
<td>Partial Mastectomy</td>
<td>2144</td>
</tr>
<tr>
<td>Total Mastectomy</td>
<td>210</td>
</tr>
<tr>
<td>Modified Radical Mastectomy</td>
<td>107</td>
</tr>
<tr>
<td>SLN Biopsies</td>
<td>859</td>
</tr>
<tr>
<td>Ax Lymph Node FNA</td>
<td>128</td>
</tr>
<tr>
<td>Breast FNA</td>
<td>66</td>
</tr>
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Training Programs/ # Enrolled
- Internal Medicine: 37
- Transitional: 5
- General Surgery: 34
- Emergency Medicine: 36
- Family Medicine: 19
- Medicine-Pediatrics: 17
- Ob/Gyn: 24
- Diagnostic Radiology: 24
- EM/IM: 14
- EM/FM: 10

Fellowships
- Adult Pain and Palliative Care: 1
- Cardiovascular Disease: 11
- Heart Failure and Transplant: 1
- Interventional Cardiology: 1
- Minimally Invasive Gyn Surgery: 1
- Nephrology: 2
- Neuro-Otolaryngology: 1
- Sports Medicine: 2
- Surgical Critical Care: 2
- Vascular Interventional Radiology: 1
8 Other Training Programs

Graduate Medical Education
- General Practice Dentistry: 8
- Oral Maxillofacial Surgery: 9
- *Medical Physics: 2
- Pharmacy: 4
- Critical Care Pharmacy: 1
- Podiatric Medicine & Surgery: 3
- *Radiation Oncology: 4
- *SSO Breast Surgery Fellowship (pending)

Student Rotations
- 657 Medical Student rotations completed in Delaware
- 145 PA Student rotations
- Nursing: 2,600 student rotations in 2016 representing over 315,000 education training hours
- Allied Health Programs: 80 students annually in 6 programs
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Person and Title</th>
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</table>
| 9:30 – 9:45 am | Cancer Center Support            | Dr. Nicholas Petrelli, MD, FACS  
Bank of America Endowed Medical Director,  
HFGCC and Research Institute Cancer Program |
| 9:45 – 10:00 am | Institutional Support            | Dr. Neil Jasani, MD  
Chief Academic and Learning Officer                                                 |
| 10:00 – 10:15 am | Department of Surgery Support   | Dr. Dennis R. Witmer, MD, FACS  
Vice Chair, Surgical Quality and Performance Improvement  
Department of Surgery                                                               |
| 10:15 – 10:30 am | BREAK                            |                                                                                  |
| 10:30 – 10:45 am | Radiation Oncology Support      | Dr. Lindsay Romak                                                                |
| 10:45 – 11:00 am | Medical Oncology Support        | Dr. Rayma Varadarajan                                                            |
| 11:00 – 11:15 am | Surgical Pathology Support      | Dr. Randi LaPoint  
Director, Surgical Pathology                                                      |
| 11:15 – 11:30 am | Breast Imaging Support          | Dr. Jacqueline Holt  
Director of Breast Imaging                                                         |
| 11:30 – 12:00 pm | Research overview               | Dr. Jerry Castellano, PharmD  
Corporate Director, Institutional Review Board  
Dr. Kandie Dempsey  
Director, Cancer Research  
Dr. Jennifer Sims-Mourtada, PhD  
Director, Translational Breast Cancer Research |
| 12:00 – 1:00 pm | LUNCH - SSO Site Reviewers      |                                                                                  |
| 1:00 – 1:15 pm  | Plastic Surgery Support         | Dr. Katheryn Warren, MD                                                          |
| 1:15 – 1:30 pm  | Genetics Support                | Dr. Zohra Ali-Khan Catts  
Director for Cancer Genetic Counseling and Oncology Nutrition Services           |
| 1:45 – 2:00 pm  | Outreach Support                | Nora Katurakes, RN, MSN, OCN  
Manager, Community Health Outreach and Education                                    |
| 2:00 – 2:15 pm  | Rehabilitation support          | Lisa Marshall                                                                     |
| 2:15 – 2:30 pm  | BREAK                            |                                                                                  |
| 2:30 – 2:45 pm  | General Surgery support         | Dr. Frederick Giberson, MD, MACM  
Vice Chair, Surgical Education, Department of Surgery  
Program Director, General Surgery Residency Program                               |
| 2:45 – 3:00 pm  | Program Coordinator             | Lois Midash                                                                      |
| 3:00 – 3:45 pm  | Final Program Review            | Dr. Diana Dickson-Witmer – Program Director                                      |