Since joining the prestigious University of Colorado Health system in 2012, the cancer program at Memorial Hospital has experienced tremendous growth. With the partnership of UCHealth and its sister hospitals, we have expanded our physician team, increased access to clinical trials and introduced more treatment options and services for cancer patients in southern Colorado.

We continue to integrate our program as an important part of the UCHealth system. Our physicians collaborate with the teams in Denver and Fort Collins, strengthening our connection to the only National Cancer Institute-designated Cancer Center in Colorado. We now share an electronic medical record across our health system, making it easier for physicians to deliver seamless care and adding convenience for patients with complex issues. In addition, through service line integration, we are developing standards of care across the Front Range, so the best care can always be delivered in the best place for the patient – close to home.

In this report, which encompasses our first two years as a part of UCHealth, we highlight some of the ways we’ve enhanced our program to improve our patients’ lives. Every day, in everything we do, we remain focused on our mission to improve lives.

Robert Hoyer, M.D. – Medical Director
Sloan Maes, RN, MSN, AOCN – Oncology Service Line Director
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Program Milestones

2013
- Launched palliative care program for inpatient units, including inpatient oncology
- Launched lung cancer screening program
- Added nurse navigation services for gastrointestinal cancer patients
- Launched Epic electronic medical records, linking physicians from across the system to a single patient record and providing patients with greater convenience

2014
- Expanded genetic counseling program
- Began offering Intraoperative Radiation Therapy procedure in Colorado Springs
- University of Colorado Cancer Center secured a federal grant providing more opportunities for clinical research across the health system

Honors
- Accredited by the American College of Surgeons Commission on Cancer
- Accredited by the American College of Radiology, Radiation Oncology
- Accredited by the National Accreditation Program for Breast Centers (NAPBC)
- Designated Breast Imaging Center of Excellence (BICOE) by the American College of Radiology
Breast Program
Breast Program

**High-Risk Clinic**
UCHealth-Memorial has a formal program for patients who have breast health concerns based upon lifestyle or family history. A nurse practitioner offers personalized assessments and works with these high-risk patients to assess their lifestyle factors, family and personal medical history, and to develop a personalized plan for follow-up screenings and evaluations. After consultation, the high-risk clinic helps to manage each patient’s care, which may include additional evaluation by a surgeon, medical oncologist or genetic counselor. The clinic also shares surveillance recommendations with patients’ primary care providers.

Since the program started in 2012, over 175 patients have been assessed for breast cancer risk. Many have met criteria for additional intervention and surveillance.

**Intraoperative Radiation Therapy**
In June 2014, Memorial became the first hospital in Southern Colorado to offer intraoperative radiation therapy (IORT) to patients undergoing treatment for breast cancer. The IORT procedure combines surgery with targeted radiation delivered via a special balloon, while the patient is under anesthesia, eliminating the need for some or all of the daily radiation treatments that are typically given after surgery. Ideal candidates for IORT are low-risk, early-stage breast cancer patients who would normally have a lumpectomy followed by radiation.

**Lymphedema Management Team**
Memorial Hospital’s specialized Lymphedema Management Team became a formal member of the National Lymphedema Network, which establishes standards of care and best practices for managing lymphedema.
### 2013 Breast Cancer Age at Diagnosis (Analytic Cases Only)

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-99 Years</td>
<td>4</td>
</tr>
<tr>
<td>80-89 Years</td>
<td>26</td>
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<tr>
<td>70-79 Years</td>
<td>55</td>
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<tr>
<td>60-69 Years</td>
<td>118</td>
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<td>50-59 Years</td>
<td>124</td>
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<td>40-49 Years</td>
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<td>30-39 Years</td>
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<tr>
<td>20-29 Years</td>
<td>1</td>
</tr>
<tr>
<td>10-19 Years</td>
<td>1</td>
</tr>
</tbody>
</table>

### 2013 Breast Cancer Cases (Analytic Cases Only)

<table>
<thead>
<tr>
<th>Stage</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage 0</td>
<td>116</td>
</tr>
<tr>
<td>Stage 1</td>
<td>172</td>
</tr>
<tr>
<td>Stage II</td>
<td>90</td>
</tr>
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<td>Stage III</td>
<td>23</td>
</tr>
<tr>
<td>Stage IV</td>
<td>13</td>
</tr>
<tr>
<td>Unknown</td>
<td>2</td>
</tr>
</tbody>
</table>
Gastrointestinal Program
Gastrointestinal
Program

**GI Navigation**

In 2013, a nurse navigator was added to the gastrointestinal oncology program to help newly diagnosed patients. The nurse navigation program is unique in that its navigators are all certified oncology nurses who specialize in a particular cancer diagnosis, so they are highly knowledgeable in the unique and complex challenges associated with the disease.

Our program also offers nurse navigation to Breast and Thoracic oncology patients. In the first 16 months of the program, 249 GI oncology patients were supported by a nurse navigator.

**Leading Cancer Care through Clinical Research**

In 2014, University of Colorado Cancer Center (UCCC) secured a federal grant to support infrastructure and oversight of cancer clinical research trials at all UCHealth hospitals, including University of Colorado Hospital, Poudre Valley Hospital, Medical Center of the Rockies and Memorial Hospital. The Lead Academic Participating Site (LAPS) grant gives Memorial and UCHealth hospitals the opportunity to work collectively across all regions toward a common research vision, with UCCC as the Principal Investigator.

Nationally, 1 percent of oncology patients are involved in clinical research trials. At Memorial, just over 6 percent of patients are participating in research.
2013 Colorectal Cancer Distribution (Analytic Cases Only)

- Colon: 25 cases (26%)
- Rectum & Rectosigmoid: 73 cases (74%)

2013 Colorectal Cancer Age at Diagnosis (Analytic Cases Only)

- 30-39 Years (2%): 2 cases
- 40-49 Years (4.1%): 8 cases
- 50-59 Years (27.6%): 27 cases
- 60-69 Years (28.6%): 28 cases
- 70-79 Years (27.6%): 27 cases
- 80-89 Years (8.2%): 4 cases
- 90-99 Years (2%): 2 cases
2013 Colon Cancer Cases (Analytic Cases Only)

2013 Rectal/Rectosigmoid Cancer Cases (Analytic Cases Only)
Thoracic Program
Thoracic Program

Lung Cancer Screening
Launched in 2013, UCHealth-Memorial now offers online lung screening to help identify patients at high-risk for lung cancer. Qualified participants can receive a low-cost, low-dose CT scan to identify or rule out cancer before symptoms occur.

*The New England Journal of Medicine* published results of the National Lung Screening Trial in 2011, demonstrating that a low-dose, spiral CT scan is the superior method for early detection of lung cancer.

From May to October 2014, 594 patients completed the full assessment; 205 patients were found to be at-risk for lung cancer, and more than half consulted with a nurse navigator. In the first six months of the program, 108 patients were scanned and one malignancy was found.

Nurse Navigation
Memorial Hospital’s nurse navigation program links patients with certified oncology nurses who specialize in a particular cancer diagnosis. These nurses are highly knowledgeable in the unique and complex challenges associated with the disease, and guide patients from diagnosis through recovery.
2013 Small Cell Lung Cancer Cases (Analytic Cases Only)

- Stage IV: 23 cases
- Stage III: 5 cases
- Stage II: 0 cases
- Stage I: 1 case
- Stage 0: 1 case

2013 Lung Cancer Age at Diagnosis (Analytic Cases Only)

- 90-99 Years: 2 cases
- 80-89 Years: 22 cases
- 70-79 Years: 47 cases
- 60-69 Years: 25 cases
- 50-59 Years: 10 cases
- 40-49 Years: 1 case
- 30-39 Years: 1 case
In January 2013, Memorial Hospital added a consultative palliative care program to offer specialized medical care for hospital inpatients. The team of palliative care clinicians works with patients and families to assist with discussions and decisions about end-of-life care, provide medical management for patients who have advanced illness, provide psychosocial support, and to assist with setting short- and long-term goals.

In the program’s first year, 40 percent of stage IV cancer patients were assisted by the palliative care team during an inpatient visit. In 2014, the team consulted with 922 new patients and provided 2,260 additional follow-up visits. The team also collaborates with the Palliative Care teams at Poudre Valley and University of Colorado Hospital to develop best practices across the system.

Advanced genetics services
In 2014, UCHealth-Memorial expanded its on-site genetic counseling services to help patients manage hereditary cancer conditions. Specialized services now available to patients include:

- Hereditary cancer syndrome risk assessment
- Genetic counseling
- Genetic testing
- Hereditary cancer syndrome medical management recommendations
Cancer Registry Data
2013 Market Share of Cases by Body System

<table>
<thead>
<tr>
<th>SEER Site Group</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Memorial</td>
</tr>
<tr>
<td></td>
<td>Hospital</td>
</tr>
<tr>
<td>Head &amp; Neck</td>
<td>13</td>
</tr>
<tr>
<td>GI, including colorectal</td>
<td>182</td>
</tr>
<tr>
<td>Resp. System, excluding lung</td>
<td>8</td>
</tr>
<tr>
<td>Lung</td>
<td>164</td>
</tr>
<tr>
<td>Melanoma</td>
<td>74</td>
</tr>
<tr>
<td>Non-melanoma Skin</td>
<td>6</td>
</tr>
<tr>
<td>Breast</td>
<td>416</td>
</tr>
<tr>
<td>GYN</td>
<td>29</td>
</tr>
<tr>
<td>GU</td>
<td>149</td>
</tr>
<tr>
<td>Brain &amp; CNS</td>
<td>43</td>
</tr>
<tr>
<td>Endocrine</td>
<td>53</td>
</tr>
<tr>
<td>Hematologic (Lymphoma &amp; Leukemia)</td>
<td>83</td>
</tr>
<tr>
<td>Mesothelioma</td>
<td>0</td>
</tr>
<tr>
<td>Kaposi Sarcoma</td>
<td>0</td>
</tr>
<tr>
<td>Other and Unknown Site</td>
<td>31</td>
</tr>
<tr>
<td>Total</td>
<td>1251</td>
</tr>
</tbody>
</table>

Source: Colorado Central Cancer Registry, CDPHE (state data approximately 80 percent complete)
2013 Top Analytic Sites

- Breast (39%)
- Lung: NSCCA & Small Cell (15.4%)
- Colon/Rectum (9.1%)
- Melanoma of Skin (6.9%)
- Prostate (5.2%)
- Bladder (4.4%)
- Thyroid (4%)
- Kidney and Renal Pelvis (3.2%)
- Non-Hodgkin’s Lymphoma (3%)
- Leukemia (3%)
- Pancreas (2.6%)
- Brain (2.3%)
- Other Nervous System (1.7%)
Trending Top Sites 2009-2013
0-1 months (0.1%)
2-4 years (0.4%)
5-9 years (0.2%)
10-19 years (0.8%)
20-29 years (2.1%)
30-39 years (4%)
40-49 years (11%)
50-59 years (23.2%)
60-69 years (27.3%)
70-79 years (19.9%)
80-89 years (4%)
90-99 years (1.6%)
Oncology Program

- Breast Surgery
- Clinical Research
- Inpatient Oncology Services
- Lung Nodule Clinic
- Medical Oncology and Hematology
- Outpatient Infusion Center
- Radiation Oncology
- Thoracic Program

Support Services

- Advanced Genetic Services
- High-Risk Breast Care Clinic
- Mary Lou Beshears Breast Care Program
- Nurse Navigation
- Nutrition
- Palliative Care Medicine
- Social Work
- Survivorship Programs

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