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Cancer Treatment Centers of America® (CTCA) has always been and always will be about putting our patients and their loved ones first, and as I reflect on 2015, I find it more important than ever to put a true definition to these inspirational words. When CTCA® opened its first hospital more than 20 years ago, surrounding patients with an integrative and expert team of physicians and clinicians was an incredibly innovative concept. This ability to pair specialized oncology services with compassionate care was something that could rarely be found outside our hospital walls. Today, I am proud to look out at the health care oncology landscape and see how medical institutions around the country are starting to embrace this concept. The idea that our patients’ needs, both medical and spiritual, must be at the center of our thoughts, hearts and actions has thankfully been embraced by many experts, communities and medical systems.

It is with this sense of pride in mind that I now ask myself—and challenge our team—to imagine how we can continue to improve the experience we provide for our patients and their caregivers. How can we take this strong foundation and help it evolve into the next phase of patient-centered care? I believe it must start with the clinical expertise and innovation that our team employs—not only in order to fight this deadly disease, but also to improve quality of life at the same time—and I am proud to say that our team has risen to this challenge. Inside these pages, you will find information about surgical procedures that can reduce the side effects of surgery and restore the body, radiation options that help target tumors and protect critical organs simultaneously, and clinical trial programs that are helping to find new ways to treat cancer literally each and every day.

These advances are not only making our traditional medical offerings stronger, but are also strengthening our integrative care teams. As we provide even more medical options, the need to provide care that supports the body, mind and spirit has become more critical than ever before. Our oncologists, surgeons and specialty physicians continue to work hand in hand with our naturopathic physicians, registered dietitians, mind-body therapists, palliative care teams and rehabilitation teams to provide individualized cancer care options at every step of our patients’ cancer journey. It is within our team structure that we know our innovation shines brightest and our patients truly find the care they need for healing and hope.

I am encouraged by all that we have done in 2015, and could not be more proud of our team as I see we have been able to provide more than 700 new patients with unparalleled cancer care over the last year. As you read through our annual report, I hope that you are inspired by our patients, encouraged by our successes, and are as motivated as we are to make 2016 an even better year for our patients and all those fighting cancer throughout the world.

Sincerely,

Matt McGuire
President and CEO
Cancer Treatment Centers of America® (CTCA) at Western Regional Medical Center
Expanded Services and Highlights

JOINT COMMISSION
LUNG CANCER CERTIFICATION
In 2015, Western became the first hospital in the Southwest, and just the sixth hospital in the country, to earn The Joint Commission’s Gold Seal of Approval® for Lung Cancer Certification. The Gold Seal of Approval is a symbol of quality that reflects an organization’s commitment to providing safe and effective patient care. Established in 2002 and awarded for a two-year period, The Joint Commission’s Disease-Specific Care Certification evaluates clinical programs across the continuum of care and addresses three core areas: compliance with consensus-based national standards; effective use of evidence-based clinical practice guidelines to manage and optimize care; and an organized approach to performance measurement and improvement activities.

THREE-DIMENSIONAL MAMMOGRAPHY
In 2015, Western acquired the Hologic Selenia Dimensions® 3D Mammography system as well as the Affirm® breast biopsy guidance system. The 3D mammography technology offers patients a new screening and diagnostic breast imaging tool to improve the early detection of breast cancer. This highly sensitive imaging tool provides individual images of thin layers of breast tissue that produce much clearer images than two-dimensional (2D) mammography. This 3D imaging may detect tiny abnormalities that may not be detected from a more traditional 2D mammogram. When caught early, these tumors are at their most treatable stage. According to Hologic®, 3D mammography provides a 41 percent increase in detecting invasive breast cancer when compared to standard 2D mammograms. It also provides up to a 40 percent reduction in false positive findings, reducing patient anxiety and eliminating the need for unnecessary invasive testing such as a biopsy.

In addition to the implementation of 3D mammography, Western also launched its first in-house Stereotactic Breast Biopsy service with the Affirm breast biopsy guidance system. The Affirm system attaches to the 3D mammography system and enables Western to perform stereotactic biopsy procedures coupled with 3D imaging. With this system, Western radiologists can easily locate and target the regions of the breast requiring a biopsy.

EXPANDED ROBOTIC SURGERY
Physicians at Western expanded robotic surgery capabilities in 2015. Urologist and Western Chief of Surgery Dr. Pankaj Jain states, “We are now able to perform some of the most advanced surgeries with robotics,” utilizing the da Vinci® Surgical System. Robotic surgery offers a minimally invasive alternative to both open surgery and laparoscopy. Compared to open surgery, robotic surgery involves tiny incisions that offer the surgeon greater visibility, precision and control, often allowing patients to return to their everyday lives more quickly with shorter hospital stays, reduced pain, less blood loss and a lower risk of infection.
Dr. Jain is now robotically performing resections of the bladder and kidney for cancer, whereas these are still open surgeries in many areas of the country. Thoracic surgeon Dr. Andrew Goldstein performs robotic surgery, including partial and complete lobectomy, for lung cancer patients. Surgical oncologist and CTCA National Chair of Surgery Dr. David Litvak performs sphincter-saving rectal cancer surgery robotically, as well as surgery for cancers of the colon and liver.

The ability to offer patients more surgical options with less invasive, more precise robotic surgery frequently enables them to return to work and their normal activities quickly. In addition, many patients experience improved overall quality of life with a faster return of urinary continence and sexual function, avoidance of a colostomy bag, and less time in the intensive care unit or hospital depending on the scope of the specific surgery performed.

Since Western’s clinical research program’s inception in 2012, patient enrollment in trials has increased by more than 800 percent. In 2015, Western exceeded the national average of approximately four percent for adult patients participating in research studies by approximately 300 percent, with dozens of patients now participating in treatment trials. Research results from some of these trials have been presented recently at various international meetings, including the World Conference on Lung Cancer and the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics.

INTEGRATIVE CARE

Western continued to highlight its integration of services in 2015, with clinicians collaborating even more closely to meet the individual needs of patients. Evidence-based integrative services provide a more comprehensive plan to treat a patient’s cancer, manage treatment side effects and impact their overall quality of life. Integrative therapies available at Western include naturopathic medicine, palliative medicine, pain management, wound care, oncology rehab (occupational therapy, physical therapy and speech therapy), nutrition, chiropractic services, acupuncture, massage, mind-body medicine, pastoral care, child life counseling and survivorship support. More than ever, integrative medicine specialists at Western are acting as patient advocates, referring patients to additional services necessary for that patient’s full breadth of treatment and enhanced quality of life. In addition to traditional treatments (chemotherapy, surgery, radiation), patients may access all of these services at one facility, knowing their providers are speaking directly with one another to fully understand every aspect of their treatment plan. This availability of integrative care furthers the CTCA commitment to understanding each patient’s unique diagnosis and needs in order to develop a treatment plan tailored specifically to the individual.

CLINICAL RESEARCH

Throughout 2015, Western continued to expand its clinical research and clinical trial offerings. Under the leadership of Dr. Glen Weiss, medical oncologist and Director of Clinical Research, Western conducted more than 30 clinical trials. Dr. Weiss and his team launched 11 new trials in 2015 (six industry-sponsored; five investigator-initiated), many of them evaluating the impact of the combination of chemotherapy with immunotherapy, which is intended to activate the body’s own immune system to fight cancer.

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ADVANCES IN RADIATION ONCOLOGY

In 2015, Western was approved to join the NRG Oncology Group as an affiliate member under the University of California at San Francisco (UCSF). The NRG Oncology Group is a nonprofit research organization formed to conduct oncologic clinical research and to broadly disseminate study results for informing clinical decision making and health care policy. It brings together the National Surgical Adjuvant Breast and Bowel Project (NSABP), the Radiation Therapy Oncology Group (RTOG) and the Gynecologic Oncology Group (GOG)—each recognized internationally as a research leader. As an affiliate member, Western is now able to expand its scope of clinical research by participating in select clinical trials led by UCSF. This research will help shape the future of cancer care. Dr. Lanceford Chong, Chief of Radiation Oncology Program Development at Western, will serve as the principal investigator, overseeing Western’s cooperative activities with the NRG and UCSF.

In 2015, Western also acquired the Q-fix SDX Spirometric Motion Management System®. This device improves accurate patient positioning for those undergoing radiation treatment for breast, thorax, abdomen and some cranial tumors. It also enhances the positioning for patients undergoing stereotactic radiosurgery (SRS) and stereotactic body radiosurgery (SBRT). The system also provides interactive deep inspiration breath hold (DIBH) capabilities. This capability improves breast and lung cancer treatments by limiting the radiation exposure to the heart, which minimizes the potential for radiation-induced heart disease.

DEVELOPMENTS IN PLASTIC SURGERY

Western has expanded its reconstructive surgery capabilities with the addition of Dr. Randall Craft, microvascular plastic surgeon. Dr. Craft performs microvascular reconstruction, or “free flap” reconstruction, for patients with head and neck cancers. This specialized surgical technique utilizes tissue from remote parts of the body grafted to the mouth, throat or face to replace any cancerous tissue removed, including repairing the tongue or jaw and reattaching blood vessels. Microvascular reconstruction embodies the CTCA commitment to multidisciplinary care before, during and after—requiring not only a reconstructive surgeon but also general surgeon, radiation oncologist, speech pathologist and nutritionist. The team’s ultimate objective is to not only restore patients’ anatomy, but to preserve their quality of life by enabling proper speech and the ability to swallow on their own.

Western breast cancer patients also now have a comprehensive range of breast reconstruction options from which to choose. The Western team is now able to perform breast reconstruction utilizing a patient’s own abdominal tissue (microvascular and non-microvascular flaps), and three-dimensional nipple and areola tattoos.
Cancer Committee Chairman’s Report

This year was a special year from the perspective of the Cancer Committee at Western Regional Medical Center. The Commission on Cancer surveyed our cancer program in June and awarded us with a three-year accreditation with commendation. We achieved the Silver level of commendation, which is the highest that can be obtained in the first year of accreditation. While there were a number of highlights culminating in this level of accreditation, there are a couple of specific achievements that I take pride in and that I would like to share.

The first is our level of accrual of patients to clinical trials running at Western. In just two years, we have not only established a leading clinical trials program, an undertaking in itself, but also have exceeded benchmarks of 2 percent patient accrual within the first year. In 2015 alone, we saw 15 percent of our patients enrolled in some form of clinical study. Patient access to promising new treatments under the safety umbrella of a clinical trials format is a critical part of delivering value in cancer care.

Speaking of value in cancer care, in 2012 the Institute of Medicine (IOM) issued recommendations to help institutions ultimately deliver high quality in cancer care. Among the components of the high-value system proposed by the IOM was a high-quality core nursing staff that was highly trained and rooted in evidence-based medicine and quality improvement. To that end, I am amazed at the quality of nursing at Western. Fifty-four percent of our nurses hold advanced nursing certifications, including 40 percent who are oncology certified, which compares to or exceeds the best cancer hospitals and was deserving of commendation by the Commission on Cancer when our hospital was surveyed in 2015. Our nurses perform and present clinical and quality studies at regional and national meetings, leveraging their expertise to help others take care of cancer patients with complex disease.

I would like to thank everyone who was a part of our Cancer Committee for a very successful conclusion to our accreditation process. More important, I would like to thank all of you for your dedication, expertise and heart to bringing real hope to cancer patients every day.
2014 Cancer Committee Membership

REQUIRED MEMBERS

David Weitz, MD  
Diagnostic Radiologist

Deborah Gelbspan, MD  
Pathologist

Robert Wascher, MD, FACS  
Surgeon

Walter Quan Jr., MD  
Medical Oncologist

Lanceford Chong, MD, MPH  
Radiation Oncologist

Shauna Birdsall, ND, FABNO  
Naturopathic Medicine

Brandy Ficek, MD  
Palliative Care

David Litvak, MD, MBA, FACS  
Cancer Liaison Physician/Chair

Steve White, LCSW  
Psychosocial Services Coordinator

Jill Fargo, MSN, FNP, RN, NEA-BC  
Program Administrator

Jackie Figueras, RN, MSN, OCN  
Oncology Nurse

Cheryl Wescott  
Quality Coordinator

Iris Castro, BSBA, CTR  
Cancer Registry Quality Coordinator

Michele Jeffery  
Community Outreach Coordinator

Brandy Harmon  
Clinical Research Representative or Coordinator

Tracy Whitworth  
Case Manager
2014 Cancer Conference Report

Weekly Cancer Conferences were attended by a multidisciplinary team including medical oncology, radiation oncology, radiology, pathology and surgery. The nursing and ancillary staff also attended these conferences to ensure comprehensive representation.

Together, they reviewed cases in detail and discussed stage, prognostic indicators, national comprehensive cancer network guidelines (NCCN), and plans for appropriate diagnostic studies, therapies and clinical trials. These prospective, patient-oriented and multidisciplinary physician care planning meetings provide free consultations to our patients and education for the medical and hospital staff. During 2014, there were 45 General Cancer Conferences, 41 Breast Cancer Conferences, 22 Lung Cancer Conferences and five Thoracic Cancer Conferences.

### PRIMARY SITES PRESENTED AT CANCER CONFERENCES DURING 2014

<table>
<thead>
<tr>
<th>PRIMARY SITE</th>
<th>NUMBER OF CASES</th>
<th>PRIMARY SITE</th>
<th>NUMBER OF CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anus</td>
<td>1</td>
<td>Lymphoma</td>
<td>7</td>
</tr>
<tr>
<td>Bladder</td>
<td>3</td>
<td>Melanoma</td>
<td>3</td>
</tr>
<tr>
<td>Bone Marrow</td>
<td>4</td>
<td>Ovary</td>
<td>1</td>
</tr>
<tr>
<td>Breast</td>
<td>151</td>
<td>Pancreas</td>
<td>10</td>
</tr>
<tr>
<td>Cervix</td>
<td>1</td>
<td>Prostate</td>
<td>9</td>
</tr>
<tr>
<td>Colon</td>
<td>6</td>
<td>Rectum</td>
<td>8</td>
</tr>
<tr>
<td>Desmoplastic Small Round Cell Tumor</td>
<td>1</td>
<td>Sarcoma</td>
<td>9</td>
</tr>
<tr>
<td>Gallbladder</td>
<td>1</td>
<td>Stomach</td>
<td>2</td>
</tr>
<tr>
<td>Head/Neck</td>
<td>4</td>
<td>Testicle</td>
<td>4</td>
</tr>
<tr>
<td>Kidney</td>
<td>8</td>
<td>Thyroid</td>
<td>2</td>
</tr>
<tr>
<td>Liver</td>
<td>2</td>
<td>Unknown</td>
<td>6</td>
</tr>
<tr>
<td>Lung</td>
<td>88</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>331</strong></td>
<td></td>
<td></td>
</tr>
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</table>
Cancer Registry Report

The Western Regional Medical Center Cancer Registry maintains a data system designed for the collection, management and analysis of data on individuals diagnosed with cancer. The Cancer Registry has entered over 2,873 cases into the database since our reference year 2011.

During 2014, 891 new cases were accessioned into the Cancer Registry database. Of these cases, 474 cases were analytic and 417 were non-analytic. There were 398 male patients and 493 female patients. We accessioned patients from 44 states (including Nassau Bahamas), with the largest portion of patients residing in Arizona.

The American College of Surgeons Commission on Cancer mandates that “A 90 percent follow-up rate is maintained for all analytic patients diagnosed within the last five years, or from the cancer registry reference date, whichever is shorter. A successful follow-up rate of 80 percent must be maintained on all analytic patients from the cancer registry’s reference date.” The Western Cancer Registry reference year is 2011. Western has exceeded this specified follow-up standard with a 92 percent follow-up rate.

The Registry staff performs the daily functions of the Tumor Registry, and ensures data accuracy with continuous quality improvement reviews by Cancer Committee physicians. The Registry provides the Cancer Committee with information from which analysis of patient outcomes and evidence-based clinical decision-making can be performed.

Cancer Registry Activities

Responded to 45 requests for data during 2014; the time required to process these requests was 33 hours

Western cancer registrars participated in the Arizona Cancer Registrars Association Education Workshop in Goodyear, Arizona

Submitted all required cases to the Arizona Central Cancer Registry

Coordinated and attended monthly Cancer Committee meetings

Maintained membership with the National Cancer Registrars Association
### 2014 Primary Sites

**SUMMARY BY BODY SYSTEM, SEX, CLASS, STATUS AND BEST CS/AJCC STAGE REPORT**

<table>
<thead>
<tr>
<th>PRIMARY SITE</th>
<th>TOTAL (%)</th>
<th>M</th>
<th>F</th>
<th>ANAL</th>
<th>NA</th>
<th>ALIVE</th>
<th>EXP</th>
<th>STG 0</th>
<th>STG I</th>
<th>STG II</th>
<th>STG III</th>
<th>STG IV</th>
<th>88</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL CAVITY AND PHARYNX</td>
<td>26 (2.9%)</td>
<td>21</td>
<td>5</td>
<td>20</td>
<td>6</td>
<td>21</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Tongue</td>
<td>13 (1.5%)</td>
<td>12</td>
<td>1</td>
<td>8</td>
<td>5</td>
<td>10</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Salivary Glands</td>
<td>2 (0.2%)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Floor of Mouth</td>
<td>1 (0.1%)</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Gum &amp; Other Mouth</td>
<td>4 (0.4%)</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Tonsil</td>
<td>6 (0.7%)</td>
<td>5</td>
<td>1</td>
<td>6</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0</td>
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<tr>
<td>DIGESTIVE SYSTEM</td>
<td>225 (25.3%)</td>
<td>122</td>
<td>103</td>
<td>90</td>
<td>135</td>
<td>150</td>
<td>75</td>
<td>4</td>
<td>7</td>
<td>11</td>
<td>16</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>Esophagus</td>
<td>13 (1.5%)</td>
<td>11</td>
<td>2</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Stomach</td>
<td>14 (1.6%)</td>
<td>11</td>
<td>3</td>
<td>5</td>
<td>9</td>
<td>9</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Small Intestine</td>
<td>5 (0.6%)</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Colon Excluding Rectum</td>
<td>83 (9.3%)</td>
<td>41</td>
<td>42</td>
<td>25</td>
<td>58</td>
<td>62</td>
<td>21</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>Cecum</td>
<td>10 (1.2%)</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Appendix</td>
<td>4 (0.5%)</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ascending Colon</td>
<td>4 (0.5%)</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Hepatic Flexure</td>
<td>5 (0.6%)</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Transverse Colon</td>
<td>1 (0.1%)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Descending Colon</td>
<td>5 (0.6%)</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sigmoid Colon</td>
<td>29 (3.4%)</td>
<td>14</td>
<td>15</td>
<td>13</td>
<td>16</td>
<td>23</td>
<td>6</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Large Intestine, NOS</td>
<td>25 (2.9%)</td>
<td>11</td>
<td>14</td>
<td>1</td>
<td>24</td>
<td>19</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rectum &amp; Rectosigmoid</td>
<td>36 (4.0%)</td>
<td>20</td>
<td>16</td>
<td>15</td>
<td>21</td>
<td>30</td>
<td>6</td>
<td>0</td>
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<tr>
<td>Rectosigmoid Junction</td>
<td>8 (1.0%)</td>
<td>5</td>
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<td>Rectum</td>
<td>28 (3.3%)</td>
<td>15</td>
<td>13</td>
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<tr>
<td>Anus, Anal Canal &amp; Anorectum</td>
<td>2 (0.2%)</td>
<td>1</td>
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<td>0</td>
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</tr>
<tr>
<td>Liver &amp; Intrahepatic Bile Duct</td>
<td>14 (1.6%)</td>
<td>11</td>
<td>3</td>
<td>7</td>
<td>7</td>
<td>9</td>
<td>5</td>
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<td>Liver</td>
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<td>2</td>
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<td>7</td>
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<td>1</td>
<td>1</td>
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<tr>
<td>Gallbladder</td>
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<td>0</td>
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<td>0</td>
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</tr>
<tr>
<td>Other Biliary</td>
<td>1 (0.1%)</td>
<td>1</td>
<td>0</td>
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<td>0</td>
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<td>Pancreas</td>
<td>51 (5.7%)</td>
<td>22</td>
<td>29</td>
<td>25</td>
<td>26</td>
<td>26</td>
<td>25</td>
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<td>Peritoneum, Omentum &amp; Mesentery</td>
<td>4 (0.4%)</td>
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<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Other Digestive Organs</td>
<td>1 (0.1%)</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>RESPIRATORY SYSTEM</td>
<td>99 (11.1%)</td>
<td>49</td>
<td>50</td>
<td>61</td>
<td>38</td>
<td>51</td>
<td>48</td>
<td>0</td>
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<td>13</td>
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<td>Nose, Nasal Cavity &amp; Middle Ear</td>
<td>2 (0.2%)</td>
<td>2</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Larynx</td>
<td>2 (0.2%)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>0</td>
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<td>0</td>
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</tr>
<tr>
<td>Lung &amp; Bronchus</td>
<td>93 (10.4%)</td>
<td>44</td>
<td>49</td>
<td>60</td>
<td>33</td>
<td>48</td>
<td>45</td>
<td>0</td>
<td>5</td>
<td>6</td>
<td>13</td>
<td>36</td>
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<tr>
<td>Trachea, Mediastinum &amp; Other Respiratory Organs</td>
<td>2 (0.2%)</td>
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<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td>BONES AND JOINTS</td>
<td>2 (0.2%)</td>
<td>2</td>
<td>0</td>
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<td>1</td>
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<tr>
<td>SOFT TISSUE (INCLUDING HEART)</td>
<td>13 (1.5%)</td>
<td>8</td>
<td>5</td>
<td>8</td>
<td>5</td>
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<td>3</td>
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<tr>
<td>PRIMARY SITE</td>
<td>TOTAL (%)</td>
<td>M</td>
<td>F</td>
<td>ANALY</td>
<td>NA</td>
<td>ALIVE</td>
<td>EXP</td>
<td>STG 0</td>
<td>STG I</td>
<td>STG II</td>
<td>STG III</td>
<td>STG IV</td>
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<td>--------</td>
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<td>--------</td>
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</tr>
<tr>
<td>SKIN (EXCLUDING BASAL AND SQUAMOUS)</td>
<td>22 (2.5%)</td>
<td>10</td>
<td>12</td>
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<td>15</td>
<td>19</td>
<td>3</td>
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<td>2</td>
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<td>3</td>
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<tr>
<td>Melanoma—Skin</td>
<td>14 (1.6%)</td>
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<td>8</td>
<td>7</td>
<td>7</td>
<td>13</td>
<td>1</td>
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<td>2</td>
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<td>1</td>
<td>3</td>
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</tr>
<tr>
<td>Other Non-Epithelial Skin</td>
<td>8 (0.9%)</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>8</td>
<td>6</td>
<td>2</td>
<td>0</td>
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</tr>
<tr>
<td>SKIN (BASAL AND SQUAMOUS)</td>
<td>6 (0.7%)</td>
<td>3</td>
<td>3</td>
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<td>6</td>
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<tr>
<td>BREAST</td>
<td>200 (22.4%)</td>
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<td>198</td>
<td>128</td>
<td>72</td>
<td>179</td>
<td>21</td>
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<td>48</td>
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<tr>
<td>FEMALE GENITAL SYSTEM</td>
<td>65 (7.3%)</td>
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<td>26</td>
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<td>21</td>
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<td>2</td>
<td>9</td>
<td>10</td>
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<tr>
<td>Cervix Uteri</td>
<td>15 (1.7%)</td>
<td>0</td>
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<td>6</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>0</td>
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<td>3</td>
<td>1</td>
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<tr>
<td>Corpus and Uterus, NOS</td>
<td>24 (2.7%)</td>
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<td>15</td>
<td>19</td>
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<td>Ovary</td>
<td>21 (2.4%)</td>
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<td>21</td>
<td>7</td>
<td>14</td>
<td>12</td>
<td>9</td>
<td>0</td>
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<td>2</td>
<td>4</td>
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</tr>
<tr>
<td>Vagina</td>
<td>1 (0.1%)</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>Vulva</td>
<td>1 (0.1%)</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Other Female Genital Organs</td>
<td>3 (0.3%)</td>
<td>0</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<td>MALE GENITAL SYSTEM</td>
<td>99 (11.1%)</td>
<td>99</td>
<td>0</td>
<td>62</td>
<td>37</td>
<td>93</td>
<td>6</td>
<td>0</td>
<td>12</td>
<td>35</td>
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<td>7</td>
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<td>Prostate</td>
<td>97 (10.9%)</td>
<td>97</td>
<td>0</td>
<td>61</td>
<td>36</td>
<td>91</td>
<td>6</td>
<td>0</td>
<td>12</td>
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<td>Testis</td>
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<td>0</td>
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</tr>
<tr>
<td>Other Male Genital Organs</td>
<td>1 (0.1%)</td>
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<td>0</td>
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<tr>
<td>URINARY SYSTEM</td>
<td>47 (5.3%)</td>
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<td>7</td>
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<td>23</td>
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<td>7</td>
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<tr>
<td>Urinary Bladder</td>
<td>17 (1.9%)</td>
<td>11</td>
<td>6</td>
<td>9</td>
<td>8</td>
<td>14</td>
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<tr>
<td>Kidney &amp; Renal Pelvis</td>
<td>30 (3.4%)</td>
<td>29</td>
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<td>15</td>
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<td>26</td>
<td>4</td>
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<td>6</td>
<td>2</td>
<td>3</td>
<td>4</td>
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</tr>
<tr>
<td>BRAIN AND OTHER NERVOUS SYSTEM</td>
<td>6 (0.7%)</td>
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<td>3</td>
<td>0</td>
<td>6</td>
<td>5</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td>ENDOCRINE SYSTEM</td>
<td>28 (3.1%)</td>
<td>6</td>
<td>22</td>
<td>17</td>
<td>11</td>
<td>24</td>
<td>4</td>
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<td>9</td>
<td>1</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Thyroid</td>
<td>27 (3.0%)</td>
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<td>21</td>
<td>17</td>
<td>10</td>
<td>23</td>
<td>4</td>
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<td>9</td>
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<td>3</td>
<td>4</td>
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<tr>
<td>Other Endocrine (including Thymus)</td>
<td>1 (0.1%)</td>
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<tr>
<td>LYMPHOMA</td>
<td>18 (2.0%)</td>
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<td>7</td>
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<td>2</td>
<td>16</td>
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<td>3</td>
<td>10</td>
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<tr>
<td>Hodgkin Lymphoma</td>
<td>3 (0.3%)</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Non-Hodgkin Lymphoma</td>
<td>15 (1.7%)</td>
<td>9</td>
<td>6</td>
<td>13</td>
<td>2</td>
<td>13</td>
<td>2</td>
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<tr>
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<td>4</td>
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<tr>
<td>NHL—Extranodal</td>
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<td>7</td>
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<td>4</td>
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<tr>
<td>MYELOMA</td>
<td>3 (0.3%)</td>
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<td>2</td>
<td>1</td>
<td>3</td>
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<td>7</td>
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<td>5 (0.6%)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Myeloid &amp; Monocytic Leukemia</td>
<td>2 (0.2%)</td>
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<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
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<td>2</td>
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<tr>
<td>Other Leukemia</td>
<td>3 (0.3%)</td>
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<td>3</td>
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<tr>
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<td>1</td>
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<td>0</td>
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<tr>
<td>MISCELLANEOUS</td>
<td>20 (2.2%)</td>
<td>13</td>
<td>7</td>
<td>4</td>
<td>16</td>
<td>16</td>
<td>4</td>
<td>0</td>
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</tbody>
</table>

Total: 891

2014 is the most complete data due to capturing complete treatment on each case.
### 2014 Estimated Leading New Cancer Cases

<table>
<thead>
<tr>
<th>CANCER TYPE</th>
<th>UNITED STATES</th>
<th>WESTERN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prostate</td>
<td>27%</td>
<td>24%</td>
</tr>
<tr>
<td>Lung</td>
<td>14%</td>
<td>11%</td>
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<tr>
<td>Colon and Rectum</td>
<td>8%</td>
<td>15%</td>
</tr>
<tr>
<td>Pancreas</td>
<td>3%</td>
<td>7%</td>
</tr>
<tr>
<td>Kidney and Renal Pelvis</td>
<td>5%</td>
<td>7%</td>
</tr>
<tr>
<td>Other</td>
<td>43%</td>
<td>36%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANCER TYPE</th>
<th>UNITED STATES</th>
<th>WESTERN</th>
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</thead>
<tbody>
<tr>
<td>Breast</td>
<td>29%</td>
<td>40%</td>
</tr>
<tr>
<td>Lung</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Colon and Rectum</td>
<td>8%</td>
<td>12%</td>
</tr>
<tr>
<td>Pancreas</td>
<td>3%</td>
<td>6%</td>
</tr>
<tr>
<td>Thyroid</td>
<td>6%</td>
<td>4%</td>
</tr>
<tr>
<td>Other</td>
<td>41%</td>
<td>28%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
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</tbody>
</table>

*New leading cancer cases 2014. Estimates from the American Cancer Society “Cancer Facts and Figures 2014” compared to 2014 analytic data at Western.*
Comprehensive Services
Our Technologies, Treatments and Services

**Cardiology**
- Echocardiogram (ECHO)
- Echocardiography Stress Test
- Holter Monitors

**Chemotherapy/Immunotherapy/Targeted Therapy**
- Bio Therapies
- Chemoembolization
- Chemoradiation
- Chronotherapy
- Genomic-based Therapy
- High-Dose Chemotherapy
- Immunotherapy
- Interleukin-2
- Intraperitoneal Chemotherapy (IPC)
- Intrathecal Chemotherapy
- Intratumoral Chemotherapy
- Intravenous Chemotherapy
- Metronomic Chemotherapy
- Monoclonal Antibody Therapy
- Oral Chemotherapy
- Provenge (for Prostate Cancer)
- Radioimmunotherapy
- Targeted Drug Therapies

**Chiropractic Services**
- Blood Flow Enhancement
- Fatigue Management
- Flexibility Enhancement
- Joint Mobilization
- Mechanical Traction
- Nervous System Enhancement
- Neuromuscular Reeducation
- Soft Tissue Mobilization
- Somato-Viscero Reflex Enhancement
- Therapeutic Exercise

**Critical Care**
- Intensive Care Unit
- Invasive and Minimally Invasive
- Cardiac Monitoring

**Diagnostics**
- Imaging
  - All Digital: Portable Fluoroscopy and X-Rays
  - Barium Swallow or Enema
  - Chest X-Ray
  - Bone Density (Dexa)
  - Computed Tomography (CT) Scan
    - CT Angiography with 3D CT
    - CT Fluoroscopy
  - Magnetic Resonance Imaging (MRI)
    - MR Computer-Aided Detection (CAD)
  - Mammography (Full Field Digital)
    - 3D Mammography
  - Breast Needle Localization
  - MRI Computer-Aided Detection (CAD) for Mammography
  - MRI-Guided Breast Biopsy
  - Sentinel Lymph Node Mapping and Imaging
  - Nuclear Medicine Imaging
    - Bone Scan
    - Multiple-Gated Acquisition (MUGA) Scans
  - Quantitative Ventilation Perfusion Studies
    - Ultrasound
    - CellSearch™ Circulating Tumor Cell (CTC) Test
    - Flow Cytometry
    - Genetics Testing
    - Genomic Tumor Assessment
    - ProstaVysion (Genetic Test)
  - Tumor Molecular Profiling

**Gastroenterology**
- Argon Plasma Coagulation (APC)
- Celiac Plexus Neurolysis (CPN)
- Cholangiopancreatography
- Colonoscopy
- Cryoablation
- Endoscopic Mucosal Resection (EMR)
- Endoscopic Retrograde Cholangiopancreatography (ERCP)
- Endoscopic Ultrasound (EUS)
- Enteroscopy
- Esophageal Variceal Banding
- Esophagogastroduodenoscopy (EGD)
- Fiducial Marker Placement
- Flexible Sigmoidoscopy
- Nutritional/Metabolic Support
- Percutaneous Endoscopic Gastrostomy (PEG) Placement
- Single Balloon Enteroscopy
- Stent Placements
- Video Capsule Endoscopy

**Gynecologic Oncology**
- Ablation of Intra-Abdominal Tumors
- Anterior and Posterior Colporrhaphy
- Cervical and Uterine HDR Brachytherapy
- Colposcopy
- Cone Biopsy/Loop Electrosurgical Excision Procedure (LEEP)
- Full Range of Open Laparoscopic Gynecologic Surgery
- Full Range of Robotic Gynecologic Surgery
- Hysterectomy
- Hysteroscopy
- Inguinal Lymphadenectomy
- Intraproitoneal Chemotherapy
- Omentectomy
- Ovarian Cancer Debulking and Staging
- Radical Vulvectomy

**Interventional Pulmonology**
- Airway Stents
- All Digital: Portable Fluoroscopy and X-Rays
- Argon Plasma Coagulation (APC)
- Autofluorescence Bronchoscopy/Fluorescence Bronchoscopy (Balloon Bronchoscopy)
- Balloon Bronchoplasty
- Cryotherapy
- Endobronchial HDR Brachytherapy
- Endobronchial Ultrasound (EBUS)
- Endobronchial Valve
- Fiducial Marker Placement
- Indwelling Pleural Catheter
- Interventional Pulmonology Procedures
- Lung Nodule Analysis
- Medical Pleuroscopy
- Navigational Bronchoscopy
- ND:YAG Laser
- Pleurodesis (with Chemotherapy or Talc)/Pleuroscopy
- PleuRX® Tunneled Pleural Catheter Insertion
- Pulmonary Function Testing (PFT)
  - (Including Spirometry, Lung Capacity Studies, Diffusion Analysis, and Methacholine Airway Challenge)
- Quantitative Ventilation Perfusion Studies in Collaboration with Radiology
- Rigid Ventilating Bronchoscopy and Flexible Bronchoscopy
- Stereotactic Biopsy
Interventional Pulmonology (cont.)
Super-Dimension GPS Bronchoscopy
Thoracentesis and Pleural Biopsy
Transbronchial Needle Aspiration

Interventional Radiology
Abscess Drainage and Fluid Collection Management
Ablation
• Cryoablation
• Irreversible Electroporation (NanoKnife®)
• Microwave Ablation
• Radiofrequency Ablation (RFA)
Angiography/Angioplasty/Stent Placements
Arterial Infusion Catheter Placement
Arteriography
Biopsy (CT-Guided, US-Guided)
• Bone Marrow
• Inferior Vena Cava Filter
Intrathecal Chemotherapy Administration
Mammography
• Breast Ductography/Breast Needle Localization
Paracentesis
Percutaneous Biliary Drainage (Internal and/or External Stent Placements)
Percutaneous Gastrostomy/Gastrojejunostomy
Percutaneous Image-Guided Biopsy
Percutaneous Nephrostomy/Urology Procedures
Portal Vein Embolization
SirSphere® Y-90 Microsphere Radioembolization
TheraSphere® Radioembolization
Transarterial Therapy
• Bland Embolization
• Intra-Arterial Chemotherapy (IAC)
• Radioembolization
Transjugular Intrahepatic Portosystemic Shunt (TIPS)
Venous Angioplasty/Stenting
Vertebral Augmentation (Kyphoplasty) and Vertebral Tumor Ablation

Mind-Body Medicine
Counseling (Individual, Couple, Caregivers, Family)
Energy Therapies (Qigong, Reiki)
Expressive Arts (Music, Movement)
Laughter/Humor Therapy
Relaxation and Guided Imagery Training
Stress Management
Support Groups

Naturophatic Medicine
Assessment of Herb-Drug-Nutrient Interactions
Consultation for Safe and Appropriate Use of Dietary Supplements, Botanical Medicines, Homeopathic Medicines and Acupuncture for Symptom Management During Chemotherapy and Radiation Evaluation, Education and Management of Natural Therapy Use for Oncology Patients

Neurosurgery
Angiography
Biopsy
Brain LAB Stereotactic Radiation Surgery Craniotomy
Endonasal Endoscopy Placement of an Ommaya Reservoir Shunt Placement
Stereotactic Radiosurgery (SRS)

Nutrition Therapy
Bioelectrical Impedance Analysis (BIA)
Diabetes Self-Management Education Program
Indirect Calorimetry Test Laboratory Blood Analysis (Nutrition Panel, including Iron Panel, Vitamin D, Prealbumin)
Nutrition Anthropometrics
Nutrition Education Parenteral and Enteral Nutrition

Oncology Rehabilitation
Acupuncture
Auriculotherapy
Borg Rating of Perceived Exertion (RPE)
Fatigue Management
Flexibility Program
Interactive Metronome
Lymphedema Management
Manual Therapy (Massage Therapy)
Neuromuscular Re-Education with Electrical Stimulation
Occupational Therapy
Physical Therapy
Post-Mastectomy Rehab
Pulmonary Rehab
ReBuilder®
Scar Tissue Manipulation
Speech and Language Pathology

Orthopedic Oncology
Hip and Joint Replacement Implants (e.g., Metal Implants, Prosthesis, Transplants)
Limb Salvage Surgery
Rodding/Rod Fixation

Pain Management
Anatomical Landmark-Guided Procedures
Blocks of Somatic and Visceral Cancer Pain Syndromes
Caudal, Lumbar, Thoracic and Cervical Epidural Steroid Blocks
Celiac Plexus Neurolysis (CPN)
Epidural Steroid Injection
Facet Joint Injections
Individualized Pain Assessment and Medical Management
Joint Injections
Minor and Major Joint and Bursa Injections
Nerve Block/Nerve Root Block
Nerve Injections, Implanted Pain Pumps, or Nerve Stimulation Devices
ON-Q® Pain Relief System
Patient-Controlled Analgesia (PCA)
Patient-Controlled Epidural (PCEA) Pump
Peripheral and Central Somatic Nerve and Plexus Blocks
Spinal Cord/Dorsal Column Stimulators
Transcutaneous Electric Nerve Stimulation (TENS)
Trigger Point Injections
Tunneled Catheter Placements (for Various Nerve Sheaths)
**Pathology**
- Genomic Tumor Analysis
- Tumor Tissue Repository

**Radiation Oncology**
- Accelerated Partial Breast Irradiation (APBI)
- Accuboost
- Calypso® 4D Localization System™ /GPS for the Body®
- External Beam Radiation Therapy (EBRT)
- High-Dose Rate (HDR) Brachytherapy
- Image Guided Radiation Therapy (IGRT)
- Intensity Modulated Radiation Therapy (IMRT)
- Intraoperative Radiation Therapy (IORT)
- Large Bore CT/RT with Simulation
- Local Hyperthermia
- Radioactive Protectants
- Stereotactic Body Radiation Therapy (SBRT)
- Stereotactic Radiosurgery (SRS)/Stereotactic Radiation Therapy (SRT) in conjunction with Calypso® 4D Localization
- Systematic Radiation Therapy/Ra223 Xofigo Therapy
- TomoHDA
- Varian® Linear Accelerator with Stereotactic Radiosurgery, Respiratory Gating, RapidArc and SBRT

**Surgery**
- Autologous Fat Grafting (Breast Reconstruction)
- Breast Surgery, including Lumpectomy and Mastectomy/Breast Conservation/Reconstruction
- Cytoreductive (Debulking) Surgery
- da Vinci® Surgical System
- Diagnostic/Staging Surgery
- Enteroscopy
- Head and Neck Surgery
- Hyperthermic Intraperitoneal Chemotherapy (HIPEC)
- Intraoperative Ultrasound
- Laryngectomy with Voice Restoration
- Liver Resection
- Melanoma Surgery
- Minimally Invasive Surgery
- Neck Dissection
- Neobladder Formation
- Oncoplastic and Breast Reconstructive Surgery
- Pancreas Resection
- Reconstrutional Microsurgery
- Robotic Surgery
- Sentinel Lymph Node Biopsy
- SPY Elite System
- Thoracoscopic Resections
- Urological Surgery
- Vascularized Lymph Node Transfer
- Video-Assisted Thoracic Surgery (VATS)

**Spiritual Support**
- Assistance with Advanced Directives and/or Living Wills
- Classes (that Focus on Healing, Faith and Life)
- Crisis Intervention
- Family Consultations
- Grief and Bereavement Counseling and Referral
- Interface with Local Pastor and Church Non-Denomination Worship Service
- Our Journey of Hope® Program
- Prayer (Individual and Group)
- Singspiration
- Spiritual Counseling
- Telephone Consultations

*Service offered off-site.*
Medical Staff

Brian Acord, MD
• Gynecologist
• Medical degree from University of California
• Residency in obstetrics and gynecology at Mercy Hospital
• Board certified in obstetrics and gynecology

Lila Ammouri, MD
• Hospitalist
• Medical degree from University of Arizona
• Residency in internal medicine at Banner Good Samaritan Medical Center/Carl T. Hayden VA Medical Center
• Fellowship in hospice and palliative medicine at Mayo Clinic
• Board certified in internal medicine

Shauna Birdsall, ND, FABNO
• Medical Director, Naturopathic Medicine and Integrative Oncology, Vice Chief of Staff
• Naturopathic medical degree from the National College of Natural Medicine
• Residency in naturopathic oncology at CTCA at Midwestern Regional Medical Center
• Board certified in naturopathic oncology

Tim Birdsall, ND, FABNO
• Senior Vice President of Information Services, Chief Medical Information Officer and Naturopathic Physician
• Naturopathic medical degree from the Bastyr University, Kenmore, Washington
• Residency in general naturopathic medicine and natural childbirth at Bastyr University
• Board certified in naturopathic oncology

Jeanette Boohene, MD
• Quality of Life and Palliative Medicine
• Medical degree from University of Newcastle upon Tyne Medical School
• Residencies in internal medicine, geriatric medicine, hematology and cardiology at Darlington Memorial Hospital
• Residencies in internal medicine and neurology at Royal Victoria Infirmary
• Internships in general, orthopedic and plastic surgery at Newcastle General Hospital and in internal medicine at Darlington Memorial Hospital
• Fellowships in palliative medicine at Marie Curie Centre and University of Texas MD Anderson Cancer Center
• Board certified in internal medicine and hospice and palliative medicine
Medical Staff

David Boyd, MD
• Intake Physician and Director, Wellness, Prevention and Primary Care
• Medical degree from Ross University School of Medicine, West Indies
• Residency in family medicine at Virginia Commonwealth University
• Board certified in family medicine

Carlos Cantu, MD
• Pathologist
• Medical degree from Texas Tech University
• Residency in pathology at University of Arizona
• Board certified in anatomical and clinical pathology

Sharad Chandrika, MD
• Pulmonologist and Intensivist
• Medical degree from Coimbatore Medical College, India
• BS from Dr. M.G.R. University, India
• Residency in internal medicine from Guthrie Robert Packer Hospital
• Fellowship in pulmonary medicine at Norwalk Hospital
• Fellowship in critical care medicine at Yale New Haven Hospital
• Board certified in internal medicine, pulmonary disease and critical care

Ricky Chang, MD
• Hospitalist
• Medical degrees from St. George’s School of Medicine and St. John’s Medical Center
• MS in medical pharmacology from University of Arizona
• Residency in internal medicine at Maricopa Medical Center
• Board eligible in internal medicine

Lanceford Chong, MD, MPH
• Chief, Radiation Oncology Program Development
• Medical degree from University of California
• Master of Public Health, Health Services Administration from University of California
• Residency in radiation oncology at University of California
• Board certified in radiation oncology

Randall Craft, MD
• Plastic Surgeon
• Medical degree from Ohio State University
• Residency in plastic surgery at Harvard University
• Residency in general surgery at Mayo School of Graduate Medical Education
• Fellowships in clinical training in microsurgery and laboratory research at Bernard O’Brien Institute of Microsurgery
• Board certified in surgery
Medical Staff

**Pierrette Dsamou, MD**
- Hospitalist
- Medical degree from University of Yaounde I, Africa
- Residency in internal medicine at Maricopa Integrated Health System
- Internship at University Specialty Hospital
- Board certified in internal medicine

**Brandy Ficek, MD**
- Medical Director, Quality of Life and Palliative Medicine
- Medical degree from University of Iowa
- Residency in family medicine at Scottsdale Healthcare
- Fellowship in faculty development at University of Arizona
- Fellowship in hospice and palliative medicine at Mayo Clinic Hospital
- Board certified in family medicine and hospice and palliative medicine

**Kenneth Flanagan, MD**
- Pathologist
- Medical degree from University of California
- Residency in anatomic and clinical pathology at University of California
- Board certified in anatomical and clinical pathology

**Deborah Gelbspan, MD**
- Medical Director, Laboratory Services, Pathology
- Medical degree from University of Vermont
- Residency in anatomic and clinical pathology at University of Arizona
- Fellowship in hemopathology at University of Arizona Health Sciences Center
- Board certified in hemopathology

**Richard Gilson, MD**
- Internal Medicine Physician
- Medical degree from University of Arizona
- Residency in internal medicine at Phoenix Veterans Administration Medical Center
- Board certified in internal medicine

**Andrew Goldstein, MD, FACS**
- Thoracic Surgeon
- Medical degree from Columbia University College of Physicians and Surgeons
- Residency in general surgery at Rochester School of Medicine
- Board certified in surgery and thoracic surgery
Medical Staff

Noah Horowitz, MD
- Psychiatrist
- Medical degree from University of Western Ontario
- Residency in psychiatry at Medical College of Wisconsin
- Board certified in psychiatry

Vivek Iyer, MD
- Interventional Pain Management Specialist
- Medical degree from University of Cincinnati
- Internship in pediatrics at Medical College of Virginia, Richmond
- Residency in anesthesiology at University of North Carolina at Chapel Hill
- Fellowship in pain medicine at University of North Carolina at Chapel Hill
- Board certified in anesthesiology and pain medicine

Wissam Jaber, MD
- Director, Interventional Pulmonary Medicine
- Medical degree from American University of Beirut, Beirut, Lebanon
- Residencies in internal medicine at American University of Beirut and Emory University
- Fellowship in pulmonary and critical care medicine and interventional pulmonary medicine at Cleveland Clinic
- Board certified in internal medicine, pulmonary disease, critical care medicine and interventional pulmonary medicine

Jordana Jaffe, MD
- Internal Medicine Physician
- Medical degree from Cornell Medical College
- Internship in internal medicine at Hospital of the University of Pennsylvania
- Residency in internal medicine at Hospital of the University of Pennsylvania
- Board certified in internal medicine

Toufic Kachaamy, MD
- Gastroenterologist and Advanced Endoscopist
- Medical degree from American University of Beirut
- Internship in internal medicine at Duke University
- Fellowship in advanced endoscopy at Mayo Clinic
- Fellowship in gastroenterology at Virginia Commonwealth University
- Board certified in gastroenterology
Medical Staff

**Adam Kerievsky, ND, LAc, FABNO**
- Naturopathic Physician
- Naturopathic medical degree from Southwest College of Naturopathic Medicine
- Certificate in acupuncture from Southwest College of Naturopathic Medicine
- Board certified in naturopathic oncology
- Diplomate of American Academy of Pain Management
- National Certification from Commission of Acupuncture and Oriental Medicine

**Nawazish Khan, MD, MS, LDN**
- Medical Oncologist/Hematologist
- Medical degree from Punjab Medical College at University of Punjab
- Internship in internal medicine at Pitt County Memorial Hospital
- MS in clinical nutrition from East Carolina University
- Fellowship in hematology/oncology at Loma Linda University
- Board certified in internal medicine and oncology and hematology

**Vivek Khemka, MD, MBA, FACP**
- Medical Oncologist
- Medical degree from Sri Ramachandra Medical College
- Residencies in internal medicine at Wyckoff Heights Medical Center and Brookdale University Hospital and Medical Center
- Fellowship in medical oncology and hematology at Cooper Cancer Institute, UMDNJ/Robert Wood Johnson Medical School
- Fellowship in palliative medicine at Montefiore Medical Center, Albert Einstein College of Medicine
- Fellowship in geriatrics at North Shore University Hospital
- Board certified in medical oncology and hospice and palliative care

**Suzi Kochar, MD**
- Endocrinologist
- Medical degree from Institute of Medicine
- Residency in internal medicine at Lutheran Medical Center
- Fellowship in endocrinology at Rosalind Franklin University of Medicine and Science
- Board certified in internal medicine and endocrinology, diabetes and metabolism

**David Litvak, MD, MBA, FACS**
- Chair, Department of Surgery and Chief of Staff
- Medical degree from University of Chicago, Pritzker School of Medicine
- MBA from Arizona State University
- Internship and residency in surgery at University of California, Davis-East Bay
- Fellowship in research at University of Texas Medical Branch
- Fellowship in surgical oncology at John Wayne Cancer Institute
- Board certified in surgery
Medical Staff

Amy Loschert, ND
- Naturopathic Physician
- Naturopathic medical degree from Southwest College of Naturopathic Medicine

Cynthia Lynch, MD
- Medical Oncologist/Hematologist
- Medical degree from Hahnemann School of Medicine
- Residency in internal medicine at Cleveland Clinic, Florida
- Fellowship in hematology/oncology at East Carolina University, Brody School of Medicine
- Board certified in medical oncology and hematology

Casey Martell, ND, MBA
- Naturopathic Physician
- Naturopathic medical degree from National College of Natural Medicine
- Residency at the National College of Natural Medicine
- Residency in integrative family medicine at Natural Choices Health Clinic

Laura Martell, ND, LAc, FABNO
- Naturopathic Physician
- Naturopathic medical degree from National College of Natural Medicine
- MS in Oriental medicine from National College of Naturopathic Medicine
- Residency in integrative family medicine at the Natural Choices Health Clinic
- National Certification from Commission of Acupuncture and Oriental Medicine
- Board certified in naturopathic oncology

Kashif Nasim, MD
- Hospitalist
- Medical degree from Nishtar Medical College
- Residency in internal medicine at Maricopa Integrated Health Systems
- Board certified in internal medicine

Walter Quan, Jr., MD
- Chief, Medical Oncology and Director, Immunotherapy
- Medical degree from Ohio State University College of Medicine
- Residency in internal medicine from Medical College of Ohio
- Fellowship in oncology at Medical College of Ohio
- Fellowship in immunotherapy of cancer at University of Southern California/Norris Cancer Center
- Board certified in medical oncology
Medical Staff

Jeffrey Sager, ND, FABNO
- Naturopathic Physician
- Naturopathic medical degree from Southwest College of Naturopathic Medicine
- MA in counseling psychology from Antioch University New England
- Board certified in naturopathic oncology

Ashish Sangal, MD
- Medical Oncologist/Hematologist
- Medical degree from Coimbatore Medical College, Dr. M.G.R. University
- Residency in internal medicine at Brookdale University Hospital and Medical Center
- Fellowship in hematology and oncology at Brookdale University Hospital and Medical Center
- Board certified in medical oncology, hematology and internal medicine

Leah Sherman, ND
- Naturopathic Physician
- Naturopathic medical degree from National College of Natural Medicine
- Residency at National College of Natural Medicine
- Residency at Indiana University Health Goshen Center for Cancer Care
- Board eligible in naturopathic oncology

Richard Shildt, MD
- Medical Oncologist
- Medical degree from University of Pittsburgh School of Medicine
- Residency and internship in internal medicine at William Beaumont Army Medical Center
- Fellowship in hematology/oncology at Brooke Army Medical Center
- Board certified in medical oncology, hematology and internal medicine

Benjamin Slane, MD, MS
- Radiation Oncologist
- Medical degree from University of Iowa, Roy J. and Lucille A. Carver College of Medicine
- MS in free radical and radiation biology from University of Iowa
- Transitional year residency at Iowa Health System, Iowa Methodist Medical Center
- Residency in radiation oncology at University of Arizona
- Board certified in radiation oncology

Marnee Spierer, MD
- Chief, Radiation Oncology Clinical Operations
- Medical degree from Columbia University College of Physicians and Surgeons
- MA from Teachers College, Columbia University
- Residency in radiation oncology at Memorial Sloan Kettering Cancer Center
- Board certified in radiation oncology
Medical Staff

Lucas Tims, ND, FABNO
- Naturopathic Physician
- Naturopathic medical degree from the Southwest College of Naturopathic Medicine
- Residency in naturopathic oncology at CTCA at Southwestern Regional Medical Center
- Board certified naturopathic oncology

Robert Wascher, MD, FACS
- Surgical Oncologist
- Medical degree from Creighton University School of Medicine
- Internship in surgery at Letterman Army Medical Center
- Residency in surgery at Tripler Army Medical Center
- Fellowship in neurosurgery at Brooke Army Medical Center
- Fellowship in surgical oncology at John Wayne Cancer Institute
- Board certified in surgery

Jeffrey Weber, MD
- Chief of Medicine and Director, Gastroenterology and Metabolic Support Services
- Medical degree from the University of Wisconsin-Madison
- Residency in internal medicine at Georgetown Division of the District of Columbia General Hospital
- Fellowship in gastroenterology at Medical College of Wisconsin
- Board certified in internal medicine and gastroenterology

Glen J. Weiss, MD, MBA
- Director, Clinical Research and Medical Oncologist
- Medical degree from Sackler School of Medicine
- MBA from W.P. Carey School of Business, Arizona State University
- Residency in internal medicine at SUNY Downstate Medical Center
- Fellowship in hematology and medical oncology at University of Colorado Health Sciences Center
- Board certified in medical oncology

Robert Whitehead, MD
- Medical Oncologist
- Medical degree from University of Maryland Medical School
- Internship at University of Maryland Hospital
- Residency in internal medicine at Mayo Clinic
- Fellowship in medical oncology at University of Wisconsin-Madison
- Board certified in internal medicine and medical oncology
Integrative Services

Carolyn Abraham, MS, CCC-SLP, CLT
- Speech-Language Pathologist
- MS in speech and language pathology from Gallaudet University
- BA in communication sciences from Temple University
- Licensed Speech-Language Pathologist
- Certified Lymphedema Therapist
- Certification in VitalStim® Therapy

Rod Bain, PT, MPT
- Physical Therapist
- Master of Physical Therapy from Temple University
- Licensed Physical Therapist

Mary Bartolome, PT, CLT
- Physical Therapist
- BS in physical therapy from Emilio Aguinaldo College
- Licensed Physical Therapist
- Certified Lymphedema Therapist
- Certified Clinical Instructor
- Certified in wound care

Jennifer Council, OTR/L
- Occupational Therapist
- BS in occupational therapy from University of Wisconsin-Milwaukee
- Board certified in occupational therapy

Sharon Day, RD, CSO, CNSC, MBA
- Chief, Division of Nutrition, CTCA and Director of Quality of Life
- BS in dietetics from Madonna University
- MBA from Arizona State University
- Internship in dietetics at University of Wisconsin, Madison
- Registered Dietitian
- Certified Nutrition Support Clinician
- Certified Specialist In Oncology Nutrition

Jacqueline Griffin, MA
- Chaplain
- MA in theological studies and pastoral care from Bethel Seminary
- MA in Christian education from Bethel Seminary
- BS in business management from Wilberforce University
- Internship at Good Samaritan Society
- Board certified chaplain
Nick Hill, BPM
- Chaplain
- BA in practical ministry from Wagner Leadership Institute
- Certified chaplain from Billy Graham Disaster Response Team
- Certified Emergency Response Team

Mirela Holtz, PT, DPT, CLT
- Physical Therapist
- Doctor of Physical Therapy from University of Mary
- BS in psychology from North Dakota State University
- Licensed Physical Therapist
- Certified Lymphedema Therapist
- Certified Clinical Instructor

Sarah Kiser, MS, RD, CSO
- Clinical Oncology Dietitian
- MS in nutrition from Arizona State University
- BS in nutrition from Long Island University, C.W. Post Campus
- Internship in dietetics at Arizona State University
- Registered Dietitian
- Certified Specialist in Oncology Nutrition

Stacy Lynch, PTA
- Physical Therapy Assistant
- Associate of Applied Science and Physical Therapist Assistant from McClennan Community College
- Associate of Arts from McClennan Community College
- Certified personal trainer
- Certified Swedish massage therapist
- Certified aquaticist and certified geriatric aquaticist

Charles McDonald, DC
- Director, Chiropractic Services
- Doctor of Chiropractic from National University of Health Sciences
- BS in human biology from National University of Health Sciences
- Licensed chiropractor
- Certified Independent Medical Examiner in Orthopedics at Los Angeles Chiropractic College
- Certified in fascial movement taping
- Board eligible chiropractic sports physician
Integrative Services

Jeffrey Paparone, MDiv
- Chaplain
- Master of Divinity from Asbury Theology Seminary
- BS in community health from Slippery Rock University
- Board certified chaplain

Stephanie Paver, RD, CSO, CNSC
- Manager of Nutrition
- BS in dietetics from Purdue University
- Internship in dietetics at Edward Hines Jr. VA Hospital
- Registered Dietitian
- Certified Nutrition Support Clinician
- Certified Specialist in Oncology Nutrition

Lisa Poormon, PT, DPT, MEd, CLT-LANA
- Director, Oncology Rehabilitation Services
- Doctor of Physical Therapy from A.T. Still University
- Master of Education from Oral Roberts University
- BS in bio-med chemistry from Oral Roberts University
- Licensed Physical Therapist
- Certified Lymphedema Therapist
- Certified Clinical Instructor

Samantha Quagliano, MS, RD, CSO
- Clinical Oncology Dietitian
- MS in nutrition from Arizona State University
- BS in nutrition from Arizona State University
- Internship in dietetics at Arizona State University
- ServSafe certification
- Registered Dietitian
- Certified Specialist in Oncology Nutrition

Holly Robinson, LCSW
- Mind-Body Therapist
- MSW from the University of Illinois at Chicago
- BA in English writing from Knox College
- Licensed Clinical Social Worker
Integrative Services

Jennifer Rogers, MS
• Child Life Specialist
• MS in therapeutic recreation from Arizona State University
• BS in therapeutic recreation from Northern Arizona University
• Certified child life specialist
• Certified therapeutic recreation specialist

Sara Sanders, MS, RD, CSO
• Clinical Oncology Dietitian
• MS in nutrition from Arizona State University
• BS in biochemistry from University of Nebraska
• Internship in dietetics at Arizona State University
• ServSafe certification
• Registered Dietitian
• Adult malnutrition certification
• Certified Specialist in Oncology Nutrition

Patricia Schloe, LMT, LPN
• Massage Therapist
• Master of Therapeutic Massage from Southwest Institute of Healing Arts
• Master of Holistic Counseling from University of Metaphysics, California
• Licensed Massage Therapist
• Licensed Practical Nurse

Julie Shelby, MS, OTR/L
• Occupational Therapist
• MS in occupational therapy from Gannon University
• Licensed occupational therapist
• Board certified in occupational therapy

Dorion Simmons, MSOM, LAc, LMT
• Acupuncturist
• MS in Oriental medicine from Midwest College of Oriental Medicine
• BS in nutrition from Midwest College of Oriental Medicine
• Massage therapy from Wisconsin Institute of Natural Wellness
• Board certified in massage therapy
• National Certification from Commission for Acupuncture and Oriental Medicine
Integrative Services

**Patrice Smith, OTR/L**
- Occupational Therapist
- BS in occupational therapy from University of Wisconsin
- Board certified in occupational therapy

**Yalda Soha, DC, LAc, Dipl OM**
- Doctor of Chiropractic and Acupuncturist
- Doctor of Chiropractic from Southern California University of Health Sciences
- MS in acupuncture and Oriental medicine from Southern California University of Health Sciences
- BS in biological sciences from University of California
- Licensed chiropractor
- Licensed acupuncturist
- National Board of Chiropractic Examiners
- National Certification from Commission for Acupuncture and Oriental Medicine

**Jane A. White, PT, MPT, DPT**
- Senior Director, Integrative Services
- Doctor of Health and Science from A.T. Still University
- Master of Physical Therapy from The Richard Stockton College of New Jersey, Galloway
- BA in English from Felician College
- Licensed Physical Therapist
- Certified Lymphedema Therapist

**Steve White, LCSW**
- Mind-Body Therapist
- MA in social work from the University of Chicago
- BS in biology from Michigan State University
- Licensed Clinical Social Worker

**Rachel Winston, MS, RD, CSO**
- Clinical Oncology Dietitian
- MS in clinical nutrition from Rush University
- BS in dietetics from Arizona State University
- BS in family studies and human development from University of Arizona
- Internship in dietetics at Rush University Medical Center
- Registered Dietitian
- Certified Specialist in Oncology Nutrition
Accreditations and Recognition

BREAST PROGRAM ACCREDITATION—NAPBC ACCREDITATION Western earned a three-year full accreditation for our breast program from the National Accreditation Program for Breast Centers (NAPBC). Western was the first breast cancer center in the state of Arizona to receive this accreditation. Western joins the list of fewer than 500 breast cancer centers in the United States to receive this accreditation, three of which are other CTCA hospitals.

THE JOINT COMMISSION Western is currently accredited by The Joint Commission with Full Standards Compliance. This accreditation decision is awarded to a health care organization that demonstrates satisfactory compliance with applicable Joint Commission standards in all performance areas. Western also earned The Joint Commission’s Gold Seal of Approval® for Lung Cancer Certification. The Gold Seal of Approval is a symbol of quality that reflects an organization’s commitment to providing safe and effective patient care. Western is the first hospital in the Southwest and only the sixth hospital in the United States to receive this esteemed designation.

QUALITY ONCOLOGY PRACTICE INITIATIVE In 2014, Western was recognized as meeting the highest standards for quality cancer care by the Quality Oncology Practice Initiative (QOPI®) Certification Program, an affiliate of the American Society of Clinical Oncology (ASCO). The QOPI Certification Program provides a three-year certification for outpatient hematology-oncology practices. The QCP seal designates those practices that not only scored high on the key QOPI quality measures, but also meet rigorous chemotherapy safety standards established by ASCO and the Oncology Nursing Society (ONS).

AMERICAN COLLEGE OF SURGEONS COMMISSION ON CANCER Western is accredited by the Commission on Cancer (CoC), a quality program of the American College of Surgeons (ACS), with the silver level commendation—the highest level of commendation possible for a new program. In addition, Western achieved commendation in Clinical Trial Accrual, Cancer Registrar Education, Public Reporting of Outcomes and Nursing Care.
This annual report reflects Cancer Registry data from 2014, as this is the latest data available. The remainder of the information reflects innovation and highlights from 2015.

ADDITIONAL ACCREDITATIONS

- College of American Pathologists (CAP) Laboratory Accreditation Program Clinical Laboratory Improvement Act (CLIA)
- American College of Radiology Mammography Accredited Facility
- American College of Radiology Computed Tomography Accredited Facility
- American College of Radiology Nuclear Medicine Accredited Facility
- American College of Radiology Positron Emission Tomography Accredited Facility
- American College of Radiology Magnetic Resonance Imaging Accredited Facility
- American College of Radiology Radiation Oncology Accredited Facility
- Quality Respiratory Care Institution from the American Association for Respiratory Care

HOSPITAL AWARDS 2014

- Best of Our Valley-Best Hospital Group, Arizona Foothills Magazine
- Dr. Shauna Birdsall, Dr. David Boyd, Dr. Andrew Goldstein and Dr. Carla Denham named “Top Docs” by Phoenix Magazine
- Matt McGuire named one of the “Forty Arizona Business Leaders Under Forty” as part of “Generation Next” in Arizona Business Magazine
- Named one of the top 40 “Most Admired Companies in Arizona” by Arizona Business Magazine

HOSPITAL AWARDS 2015

- Elizabeth Maribito named one of the “Outstanding Women in Business” by the Phoenix Business Journal
- Molly Stockley named one of the “Most Influential Women in Arizona Business” by Arizona Business Magazine
- Dr. Shauna Birdsall named in “Top Docs” by Phoenix Magazine
- Winner of Arizona Business Magazine’s Healthcare Leadership Award for Hospital of the Year