2015 ANNUAL REPORT
I feel incredibly privileged to share with you some of the advancements we have made at CTCA® at Midwestern. From medical innovations; to opening our brand-new, state-of-the-art inpatient tower; to the accreditations that recognize Midwestern as a national leader in cancer care; it’s inspiring and humbling. Most important; however, are the countless ways in which these milestones enable us to continue making a difference in the lives of our patients every day.

In November, we opened our new, highly anticipated 168,078-square-foot, six-story inpatient tower. The hospital expansion included 72 private inpatient rooms to ensure patient safety and quality care. The space also expands our main lobby, which includes a new patient dining area and an outdoor courtyard.

Delivering exceptional oncology services for patients—with all cancer types—is our greatest priority and proudest achievement. For the third year in a row, the National Quality Measures for Breast Centers Program™ (NQMBC®) recognized Midwestern as one of the top medical centers in the country for providing quality breast cancer care. Midwestern is the only center in Illinois, and one of only 50 nationally, to be recognized as a Certified Quality Breast Center of Excellence™ recipient. We continue to pride ourselves on acknowledgments by other organizations, including The Joint Commission, the Foundation for the Accreditation of Cellular Therapy (FACT) and the American College of Surgeons Commission on Cancer (Accreditation with Commendation).

As a leading hospital, we routinely recognize the high level of care our employees deliver. Each quarter, we celebrate a nurse who has received the DAISY Award® for Extraordinary Nurses, which is part of the DAISY Foundation’s program. This year, we honored four nurses who provided unparalleled, compassionate care.

Our outstanding team of nurses is dedicated to excellence and professionalism. Within our hospital, 160 nurses are nationally certified, including 50 who are oncology certified nurses (OCN®). Their combined leadership has helped earn our hospital Magnet® recognition by the American Nurses Credentialing Center (ANCC).

I am also proud to share our recent Five-Star Quality Rating from the Centers for Medicare & Medicaid Services (CMS). The CMS assigns hospitals a rating of one to five stars based on the results of the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) survey, which measures patient satisfaction. Midwestern is the only CMS Five-Star Quality-rated facility in the Chicagoland area. In addition, the Leapfrog Group recognized Midwestern as a 2015 Top Hospital. Only 98 hospitals nationwide received this prestigious award in 2015.

As I round through the new inpatient tower, I see far beyond the bricks and mortar that were used to build it. Instead, I see a beacon of healing and hope that will enable us to serve more families and touch more lives than ever before.

Sincerely,

Scott Jones
President and CEO
Cancer Treatment Centers of America® (CTCA) at Midwestern Regional Medical Center (Midwestern)
2014 Cancer Committee Membership

Patel, Kamal, MD  
Chairman, Radiation Oncology

Sunn, Laura, MD  
Cancer Liaison Physician, Psychology

Vashi, Pankaj, MD  
Gastroenterology/Nutrition

Neelam, Rakhshanda, MD  
Medical Oncology

Gershenhorn, Bruce, DO  
Quality, Medical Oncology

Levin, Robert, MD  
Chief, Medical Oncology

Brown, C. Komen, MD, PhD  
Surgical Oncology

Williams, Sybilann, MD  
Gynecologic Oncology

Ray, Stephen, MD, FACS, DABMA  
Oncoplastic and Reconstructive Surgery/Medical Acupuncture

Kiev, Jonathan, MD, FACS  
Thoracic Surgery

Sirijintakarn, Pakorn, MD  
Imaging

Tan, Bradford, MD  
Pathology

Rahman, Raed, DO  
Pain Management

Taylor, Cecilia  
Administration

Lesniak, Jacklynn, MS, BSN, RN  
SVP Nursing/Chief Nursing Officer

Schultz, Adrienne, MSN, RN, HN-BC  
AVP Nursing

Steinert, Bruce  
Research

Ottersen, Diane, CTR  
Cancer Registry/Cancer Conference Coordinator

Morley, Linda  
Quality Management

Nachowicz, Paul, PharmD  
Pharmacy/Oncology

Puckett, Katherine, PhD, MS, MSW, LCSW  
Mind-Body Medicine

Hall, Colette, RN, BSN, MSHA  
Oncology Nursing

Martin, Thomas  
Community Outreach Coordinator

Mueller, Kim  
American Cancer Society

Poirier, Lana  
Quality and Risk Management

Shannon, Christina, ND, FABNO  
Naturopathic Medicine

Fowler, Eric, MS, LGC  
Genetic Counseling

Maravilla, Stanislav, PT, MBA, CLT  
Rehabilitation Services

Lay, Tom  
Quality of Life/Survivorship Support
Expanded Services and Highlights

Every year, CTCA at Midwestern adds innovative technologies and comprehensive services that provide patients with more options than ever before. Many of the new advancements within the past year are upgrades to existing technologies. They deliver more precise and targeted treatments, while closing gaps to make existing therapies even more effective with a lower risk of complication. The result is often a more comfortable and convenient experience for patients throughout their cancer treatment, care and beyond.

**RAPID LUNG-NODULE DIAGNOSTIC PROGRAM**

When patients’ X-rays or CT scans reveal an abnormal lesion on the lung, finding exactly what it is, as soon as possible, is vital to their peace of mind and future care. With the rapid lung-nodule diagnostic program, lung experts at Midwestern deliver fast, accurate results for patients in a matter of days instead of weeks. The lung team, which includes medical oncology, interventional radiology, pulmonology and thoracic surgery, work together to evaluate patients’ CT scans, determine the appropriate type of biopsy, conduct additional tests as appropriate, and provide results along with a treatment plan, if necessary, in as little as four days.

**LYMPHATICOVENULAR BYPASS SURGERY**

An estimated 30 percent of cancer patients suffer from lymphedema, a troublesome side effect that can occur following surgical removal of the lymph nodes or radiation. The condition causes an abnormal accumulation of fluid just beneath the skin, which can lead to painful swelling that may limit mobility. Lymphaticovenular bypass surgery is a new microsurgery option available at Midwestern. The procedure is performed by shunting fluid from lymphatic vessels in the affected area to nearby veins. The technique is ideal for patients experiencing mild lymphedema and those who had breast or other reconstructive surgery.

**WEEKEND ONCOLOGY CLINIC**

Midwestern offers weekend services for new and returning patients to accommodate their busy schedules. Patients seeking weekend care options experience the same personalized attention as those patients who come to the hospital Monday through Friday. The weekend clinic offers medical appointment and infusion services. The following services are also offered: care management, laboratory medicine, mind-body medicine, naturopathic medicine, nutrition therapy, radiology and imaging, retail pharmacy services, spiritual support, and urgent or emergency care.

**3D MAMMOGRAPHY SYSTEM WITH TOMOSYNTHESIS**

Midwestern now offers the Selenia® Mammography System, which performs a special imaging exam called digital breast tomosynthesis (DBT). The technology captures three-dimensional images of the breast in one-millimeter slices that enhance radiologists’ ability to view tissue and make more accurate diagnoses. The Selenia is also capable of capturing a traditional two-dimensional image for comparison to older imaging studies. This device was the first FDA-approved system capable of 2D and 3D mammography. It requires
less compression of the breast while 2D and 3D images are simultaneously captured. Research suggests that the enhanced images reduce the number of women recalled for additional images or unnecessary biopsies.

**TRANSORAL ROBOTIC SURGERY**

The da Vinci® Robotic Surgical System is a surgical robot that enables surgeons to perform minimally invasive procedures with greater precision and dexterity than the human hand. Now, surgeons at Midwestern use the da Vinci system to perform transoral robotic surgery (TORS) to treat cancers of the head and neck such as those affecting the tonsils, base of the tongue or larynx. With TORS, surgeons work through the back of the mouth, instead of splitting the jaw or making a large incision through the jaw or neck—which can have long-term complications such as difficulty breathing or swallowing, and/or facial disfiguration. TORS results in shorter hospitalizations, less pain and a much better cosmetic result compared to traditional open surgery.

**CliniMACS® REAGENT SYSTEM**

For patients at Midwestern with acute myeloid leukemia (AML) who receive allogeneic stem cell transplants, graft versus host disease (GVHD) is a potentially deadly complication. One of the standard ways of preventing GVHD is suppressing the recipient’s immune system. The CliniMACS® Reagent System allows for allogeneic transplants without immunosuppression. The system extracts the cells from donor tissue that are known to cause a greater chance of GVHD and enriches a type of cell called CD34 that promotes the immune system’s acceptance of the transplant in the recipient. The ability to reduce the risks of GVHD and the need for immunosuppression results in safer treatment that could also lead to faster recovery with a shorter hospital stay.

**SAVI SCOUT®**

The SAVI SCOUT® surgical guidance system is a novel device that allows surgeons to localize non-palpable tumors in the breast prior to resection. The technology includes a non-radioactive seed that’s placed inside the breast up to seven days before breast tumor resection. Then, surgeons use the SAVI SCOUT’s probe (which emits infrared light and an electromagnetic field), as well as detectors, to locate the seed and determine the optimal surgical incision. The tumor is removed with the help of the probe and then tissue is scanned with the probe to confirm that the seed is outside the body.

**SpaceOAR® HYDROGEL**

For men diagnosed with prostate cancer, radiation therapy is often one of the recommended treatment options. Since the rectum is in close proximity to the prostate, radiation therapy can injure the rectum, causing unwelcome side effects such as diarrhea, rectal bleeding, rectal pain and incontinence. The SpaceOAR® (Organs At Risk) System hydrogel is a newly FDA-approved hydrogel that is injected between the rectum and prostate during a minimally invasive procedure to increase the distance between those organs. This extra space can significantly reduce the amount of radiation the rectum receives, and can alleviate rectal toxicity. The spacer remains in place during radiation treatment and is then absorbed by the body and passed through the urine.

**SPYGLASS™ DIRECT VISUALIZATION SYSTEM**

Within months of its introduction to the market, Midwestern acquired the newest ideation of the Spyglass™ Direct Visualization System. With the upgraded capabilities of the camera on this system, gastroenterologists can better identify lesions and diagnose and stage diseases within the bile duct, which can lead to better outcomes. As a result, they can now do a visual biopsy instead of blind biopsy to confirm whether or not cancer is present.
The past year allowed us to reach several amazing milestones. In 2014, Midwestern was named a Top Performer on Key Quality Measures® for the second year in a row by The Joint Commission. Midwestern is one of only 56 hospitals in Illinois to earn the distinction of Top Performer on Key Quality Measures for 2013, and one of 712 hospitals in the country to achieve the Top Performer distinction for the past two consecutive years. The hospital was recognized for attaining and sustaining excellence in accountability measures in surgical services.

As a Top Performer on Key Quality Measures, Midwestern met criteria illustrating:

• Cumulative performance of 95 percent or above across all reported accountability measures
• Performance of 95 percent or above on each and every reported accountability measure where there are at least 30 denominator cases
• At least one core measure set that has a composite rate of 95 percent or above, and (within that measure set) all applicable individual accountability measures have a performance rate of 95 percent or above

Additionally, Midwestern was recognized by the National Quality Measures for Breast Centers Program™ (NQMBC®) as being among the top centers in the country for providing quality breast cancer care. The Midwestern Breast Center is the only center in Illinois, and one of only 50 centers nationally, to be recognized as a Certified Quality Breast Center of Excellence™—reinforcing the hospital’s position as a national leader in breast cancer care. As part of the National Consortium of Breast Centers, the NQMBC recognizes centers with the esteemed designation for providing the highest level of care to patients. Using 36 National Quality Indicators™, the NQMBC evaluates breast programs on data from the areas of imaging, surgery, cancer registry, pathology, radiation and patient satisfaction to determine if high standards are met.

The Cancer Committee continues to lead our hospital in transparent quality reporting to ensure that patient care is safe, timely and appropriate, according to national recommendations and standards. Safety, one of our highest priorities at Midwestern, was carried throughout plans for the hospital’s new inpatient tower with additional focus on fall prevention, speed to care and enhanced care communications, infection prevention, and patient education through LINCOR® (a patient engagement system with educational videos to empower patients to take part in their healing). By focusing on top safety initiatives such as these, we were able to document a direct impact on enhancing the safety of patient care.

Midwestern continues to submit data for review and performance comparison through the following programs:

• Cancer Program Practice Profile Reports (CP3R) for breast, colon, rectum, gastric, non-small cell lung, ovary, endometrial and cervical cancer
• National Consortium of Breast Centers (NCBC) National Quality Measures for Breast Programs (NQMBC)
• National Marrow Donor Program for hematologic cancers
• Rapid Quality Reporting System (RQRS) for breast and colorectal cancers
• U.S. Department of Health and Human Services (HHS) Hospital Consumer Assessment for Healthcare Provider and Systems (HCAHPS) for patient satisfaction

The Cancer Committee consistently reviews ongoing performance improvement processes. Over the past year, the Cancer Committee continued to monitor the following projects, some implemented in 2014, ensuring that the hospital’s goals and benchmarks continue to be met: 1

• For patients with dye allergies, oral premedication is preferable to intravenous premedication. To increase administration of oral premeds, imaging and medical oncology review schedules in as far advance as possible to identify patients with allergies.
• The pharmacy team meets with each patient to increase education and awareness of medication administration. This also helps reduce readmissions as patients may fill prescriptions prior to discharge.

• Target length of stay for inpatients is continuously evaluated to minimize avoidable stays, reducing all avoidable days by 32 percent.

The Cancer Committee also continues to participate in the Illinois Breast and Cervical Cancer Program (IBCCP) to support the community in cancer prevention and early diagnosis. In 2014, Midwestern performed a total of 1,076 screening mammograms, 943 diagnostic mammograms, 406 breast ultrasounds and 287 breast MRIs. In addition, Midwestern hosted a complementary screening and prevention awareness event in 2015, offering mammograms and lung low-dose CT scans to several employers in the community.

Kamal Patel, MD
Radiation Oncologist
Chair, Cancer Committee

1Details on page 15.
These meetings improve our patients’ care by providing multidisciplinary treatment planning, offering education and encouraging shared learning opportunities to physicians and allied medical staff. The physician members include surgeons, medical oncologists, radiation oncologists, pathologists, interventional pain management, radiologists, psychologists, gynecologic oncologists and gastroenterology experts. Non-physician members include representatives from the mind-body medicine, spiritual support, nutrition, naturopathic oncology, oncology rehabilitation, nurse navigation, care management, genetic counseling, cardiopulmonary and administrative teams.

These multidisciplinary conferences represent an opportunity for members to share expertise and maximize communication among professionals.

Cases are presented at the critical times during patient care that will make the biggest impact on treatment decisions. These discussions include a review of the patient’s medical history, work-up and staging, and a review of nationally recommended treatment guidelines. If appropriate, there is discussion regarding options for clinical trials and genetic consultation.

The General Cancer Conference and Breast Cancer Conference are held weekly at Midwestern. In 2014, we participated in 84 conferences and presented 441 cases.
The Cancer Registry collects and enters cancer data including patient demographic information, medical histories, diagnostic findings, and treatment and cancer information (including primary site, histology and extent of disease) into the Cancer Registry database. This data is used in many ways. Requests for Cancer Registry data include, but are not limited to, research activities, analytical studies, marketing, corporate finance, and survival analysis and performance improvements.

In 2014, 2,491 patients were diagnosed and/or treated at Midwestern for a cancer diagnosis. Of those, 1,412 were newly diagnosed (analytic), a 10+ percent increase from the previous year. The remaining 1,079 patients received treatment for recurrent or progressive disease. Analytic patients are those who are diagnosed and/or receive all or part of their first course of cancer treatment at Midwestern. Non-analytic patients are those who receive subsequent cancer treatment due to progressive or recurrent disease.

The Cancer Registry Team at Midwestern is responsible for the following:

- A complete summary of diagnostic and treatment data for each new patient, completed prior to the patient’s arrival at Midwestern
- Initiation of processes that ensure every cancer patient seeking care at Midwestern is captured in our database
- Development of a registry abstract for each patient receiving cancer-directed therapy
- Submitting cancer cases to the Illinois State Cancer Registry
- Submitting required data to the National Cancer Data Base, error-free, in the time frames required
- Establishing lifetime contact with each patient receiving treatment for newly diagnosed cancer through follow-up procedures within our registry software
- Providing on-demand statistical data reports
- Staffing Cancer Conference and Breast Conference meetings
- Serving as staff to the Cancer Committee
- Maintaining all documentation for the accreditation of our cancer program by the Commission on Cancer (American College of Surgeons) and the National Accreditation Program for Breast Centers
- Assisting in the data collection for the National Quality Measures for Breast Cancer
- Attending national and state conferences for education purposes and for the maintenance of the Certified Tumor Registry credential (CTR)
- Providing information and assisting with the annual report, including the site-specific study
- Submitting breast and colon data to the Rapid Quality Reporting System (RQRS)

The Cancer Registry at CTCA at Midwestern has a reference date of 1985. Since that time, data from more than 26,000 patients has been added to the database.
### SUMMARY BY BODY SYSTEM, SEX, CLASS, STATUS AND BEST CS/AJCC STAGE REPORT

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<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 1</th>
<th>STG II</th>
<th>STG III</th>
<th>STG IV</th>
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<td>Gum &amp; Other Mouth</td>
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<td>Other Oral Cavity &amp; Pharynx</td>
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<td>15</td>
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<td>Colon Excluding Rectum</td>
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<td>83</td>
<td>72</td>
<td>82</td>
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<td>37</td>
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<td>Cecum</td>
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<tr>
<td>Appendix</td>
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<td>7</td>
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<td>Ascending Colon</td>
<td>16 (0.7%)</td>
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<td>7</td>
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<td>Hepatic Flexure</td>
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<td>Transverse Colon</td>
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<td>Descending Colon</td>
<td>11 (0.5%)</td>
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<td>6</td>
<td>8</td>
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<td>8</td>
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<td>Sigmoid Colon</td>
<td>42 (1.7%)</td>
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<td>22</td>
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<td>9</td>
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<tr>
<td>Large Intestine, NOS</td>
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\(^2\)2014 is the most complete data due to capturing complete treatment on each case.
### SUMMARY BY BODY SYSTEM, SEX, CLASS, STATUS AND BEST CS/AJCC STAGE REPORT

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<th>PRIMARY SITE</th>
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<th>F</th>
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<th>NA</th>
<th>ALIVE</th>
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<td>Larynx</td>
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<td>SOFT TISSUE (INCLUDING HEART)</td>
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*2014 is the most complete data due to capturing complete treatment on each case.*
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<th>ANALY</th>
<th>NA</th>
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<th>EXP</th>
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</tr>
<tr>
<td>NHL—Nodal</td>
<td>37 (0.5%)</td>
<td>18</td>
<td>19</td>
<td>30</td>
<td>7</td>
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<tr>
<td>NHL—Extranodal</td>
<td>21 (0.5%)</td>
<td>10</td>
<td>11</td>
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<td>Myeloma</td>
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<td>13</td>
<td>12</td>
<td>18</td>
<td>7</td>
<td>23</td>
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<tr>
<td>Leukemia</td>
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<td>16</td>
<td>13</td>
<td>15</td>
<td>14</td>
<td>26</td>
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<td>0</td>
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<td>7</td>
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<td>10</td>
<td>15</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Chronic Lymphocytic Leukemia</td>
<td>16</td>
<td>9</td>
<td>7</td>
<td>7</td>
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<td>15</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>0</td>
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<tr>
<td>Myeloid &amp; Monocytic Leukemia</td>
<td>12 (0.5%)</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>11</td>
<td>1</td>
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<tr>
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<td>2</td>
<td>1</td>
<td>3</td>
<td>0</td>
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<td>9</td>
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<td>Miscellaneous</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,491</strong></td>
<td><strong>1,054</strong></td>
<td><strong>1,437</strong></td>
<td><strong>1,412</strong></td>
<td><strong>1,079</strong></td>
<td><strong>1,853</strong></td>
<td><strong>638</strong></td>
<td><strong>43</strong></td>
<td><strong>254</strong></td>
<td><strong>279</strong></td>
<td><strong>247</strong></td>
<td><strong>502</strong></td>
<td><strong>84</strong></td>
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\*2014 is the most complete data due to capturing complete treatment on each case.*
### 2014 Patients by State

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<th>STATE</th>
<th>CASES</th>
<th>STATE</th>
<th>CASES</th>
<th>STATE</th>
<th>CASES</th>
<th>STATE</th>
<th>CASES</th>
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<td>5</td>
<td>Iowa</td>
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<td>Rhode Island</td>
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<td>Nebraska</td>
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<td>South Carolina</td>
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<td>Indiana</td>
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<td>Nevada</td>
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<td>South Dakota</td>
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<td>Kansas</td>
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<td>New Hampshire</td>
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<td>Tennessee</td>
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<tr>
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<td>Kentucky</td>
<td>43</td>
<td>New Jersey</td>
<td>13</td>
<td>Texas</td>
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<td>Louisiana</td>
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<td>New Mexico</td>
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<td>Utah</td>
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<td>Maine</td>
<td>5</td>
<td>New York</td>
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<td>Vermont</td>
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<td>Delaware</td>
<td>13</td>
<td>Maryland</td>
<td>50</td>
<td>North Carolina</td>
<td>47</td>
<td>Virginia</td>
<td>49</td>
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</tr>
<tr>
<td>District of Columbia</td>
<td>4</td>
<td>Massachusetts</td>
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<td>North Dakota</td>
<td>17</td>
<td>Washington</td>
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<td>Michigan</td>
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<td>Ohio</td>
<td>136</td>
<td>West Virginia</td>
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<td>Minnesota</td>
<td>37</td>
<td>Oklahoma</td>
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<td>Wisconsin</td>
<td>132</td>
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<tr>
<td>Hawaii</td>
<td>6</td>
<td>Mississippi</td>
<td>12</td>
<td>Oregon</td>
<td>10</td>
<td>Wyoming</td>
<td>7</td>
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<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,491</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

### 2014 TOTAL NEW CASES BY STATE FOR MIDWESTERN REGIONAL MEDICAL CENTER

2,491

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1. 2014 is the most complete data due to capturing complete treatment on each case. Not all listed are states, e.g., Bahamas and District of Columbia.
### Patients who have an allergy to dye

<table>
<thead>
<tr>
<th>STUDY CRITERIA</th>
<th>ANALYSIS AND OUTCOME</th>
<th>RECOMMENDATION AND FOLLOW-UP</th>
<th>INITIATION AND COMPLETION</th>
</tr>
</thead>
</table>
| Patients who have an allergy to dye were presenting in the imaging department for tests without taking the oral premedication prior to the scans. Allergy patients were often given IV premeds before the testing began. | A radiologist researched best practices for patients at Midwestern with allergies. The American College of Radiology (ACR) guidelines recommend that best practice is oral rather than IV premedication. Imaging now reviews the schedules to identify any patient with allergies and reminds the patients to take the oral premedication. If patients present for their appointments with IV medication, the scan is completed. The imaging department then works with the medical oncologist to prescribe oral medication for the next visit. Imaging has seen a vast improvement with using oral medication and the issue has been resolved. | The radiologist in the imaging department recommended that all allergy patients for CT contrast receive only oral premedication unless it is a life-threatening emergency. Imaging has seen a vast improvement in premedication ordering patterns. | Initiated: January 2015  
Completed: February 2015 |

### Standardizing medication education during pharmacy consults

<table>
<thead>
<tr>
<th>STUDY CRITERIA</th>
<th>ANALYSIS AND OUTCOME</th>
<th>RECOMMENDATION AND FOLLOW-UP</th>
<th>INITIATION AND COMPLETION</th>
</tr>
</thead>
</table>
| The pharmacy team focused on standardizing inpatient consults in order to effectively provide medication education and address patients’ questions and concerns prior to being discharged. | The pharmacy team identified the criticality of meeting with inpatients prior to discharge. The team identified the need to standardize inpatient consult visits to verify accuracy of medication lists and effectively provide education regarding medication administration and side effects. This consult would also enhance communication between the pharmacist and patient, therefore alleviating any confusion or concerns patients may have regarding their medication. The outcome of this initiative has resulted in an increase in inpatient consults to increase patient education and awareness of medication administration. This also helps reduce readmissions as patients may fill prescriptions prior to discharge. | The pharmacy team recommended that inpatients have a standardized pharmacist consult before discharge that includes:  
- Creation of standard work instructions  
- Establishment of an electronic tracking system to serve as a trigger and reporting tool  
- Development processes to increase accuracy of patient medication lists | Initiated: July 2014  
Completed: June 2015 |

### Minimizing potentially avoidable days for inpatient stays

<table>
<thead>
<tr>
<th>STUDY CRITERIA</th>
<th>ANALYSIS AND OUTCOME</th>
<th>RECOMMENDATION AND FOLLOW-UP</th>
<th>INITIATION AND COMPLETION</th>
</tr>
</thead>
</table>
| All inpatients with the highest DRG codes were associated with the most potentially avoidable days. | Improvements:  
- Created a visual length of stay (LOS) target  
- Worked with Coding and Utilization Review to establish a method of providing real-time expected discharge dates  
- Supported patient-centered rounding  
- Created education program on target and importance  
- Increased awareness of the target by holding informational meetings  
- Supported the development of surgical recovery protocols  
- Created a virtual length of stay tracking system to serve as a trigger and reporting tool  
- Development processes to increase accuracy of patient medication lists | Monthly data is collected and presented at medical staff and other committee meetings  
- Target length of stay for all patients continues to be investigated and other improvements continue to be implemented  
- The virtual facility board was created and includes the targeted length of stay for each patient  
- Continued discussion with ERAS in surgery, expanding applications where appropriate | Initiated: June 2014  
Completed: March 2015 |
# Comprehensive Services

## Our Technologies, Treatments and Services

<table>
<thead>
<tr>
<th><strong>Cardiology</strong></th>
<th><strong>Chemotherapy/Immunotherapy/Targeted Therapy</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Echocardiogram (ECHO)</td>
<td>Chemoradiation</td>
</tr>
<tr>
<td>Electrocardiogram (EKG)</td>
<td>High Dose Inpatient IL2</td>
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<tr>
<td>Holter Monitors</td>
<td>Hormone Therapy</td>
</tr>
<tr>
<td>Nuclear Medicine Rest/Stress Test</td>
<td>Intrathecal Chemotherapy</td>
</tr>
<tr>
<td>Stress Echo/Pharmacologic Stress Echo</td>
<td>Intravenous Chemotherapy</td>
</tr>
<tr>
<td>Transesophageal Echocardiogram (TEE)</td>
<td>Monoclonal Antibody Therapy</td>
</tr>
<tr>
<td><strong>Cardiology</strong></td>
<td>Oral Chemotherapy</td>
</tr>
<tr>
<td>Echocardiogram (ECHO)</td>
<td>Provenge® (for Prostate Cancer)</td>
</tr>
<tr>
<td>Electrocardiogram (EKG)</td>
<td>Radioimmunotherapy</td>
</tr>
<tr>
<td>Holter Monitors</td>
<td>Targeted Drug Therapy</td>
</tr>
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<td>Yervoy™ (for Metastatic Melanoma)</td>
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<tr>
<td>Stress Echo/Pharmacologic Stress Echo</td>
<td>Zevalin® (for Non-Hodgkin Lymphoma)</td>
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<tr>
<td>Transesophageal Echocardiogram (TEE)</td>
<td><strong>Chemotherapy/Immunotherapy/Targeted Therapy</strong></td>
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<tr>
<td><strong>Chemotherapy/Immunotherapy/Targeted Therapy</strong></td>
<td>Chemoradiation</td>
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<td><strong>Imaging</strong></td>
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</tr>
<tr>
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<td>Balloon Bronchoplasty</td>
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<td>Intraoperative Radiation Therapy (IORT)</td>
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<tr>
<td><strong>Hematology</strong></td>
<td>Transbronchial Needle Aspiration</td>
</tr>
<tr>
<td>Allogeneic Autologous</td>
<td><strong>Interventional Radiology</strong></td>
</tr>
<tr>
<td>Cord Blood</td>
<td>Ablation</td>
</tr>
<tr>
<td>Haploidentical</td>
<td>Cryoablation</td>
</tr>
<tr>
<td>Matched Sibling Donor</td>
<td>Irreversible Electroporation (NanoKnife®)</td>
</tr>
<tr>
<td>Matched Unrelated Donor</td>
<td>Microwave Ablation</td>
</tr>
<tr>
<td>Nonmyeloablative/Reduced-Intensity Stem Cell Transplant</td>
<td>Radiofrequency Ablation (RFA)</td>
</tr>
<tr>
<td><strong>Imaging</strong></td>
<td>All Digital: Portable Fluoroscopy and X-Rays</td>
</tr>
<tr>
<td>All Digital: Portable Fluoroscopy and X-Rays</td>
<td>Argon Plasma Coagulation (APC)</td>
</tr>
<tr>
<td>Barium Studies</td>
<td>Balloon Bronchoplasty</td>
</tr>
<tr>
<td><strong>General X-ray Procedures</strong></td>
<td>Bronchoscopy</td>
</tr>
<tr>
<td>Computed Tomography (CT) Scan</td>
<td>Cryotherapy</td>
</tr>
<tr>
<td>CT Scans (Head, Neck, Chest, Abdomen, Pelvis)</td>
<td>Endobronchial Ultrasound (EBUS)</td>
</tr>
<tr>
<td>PET/CT Scans</td>
<td>Interventional Pulmonology Procedures</td>
</tr>
<tr>
<td>Bone Density (DEXA)</td>
<td>Lung Nodule Analysis</td>
</tr>
<tr>
<td><strong>Magnetic Resonance Imaging (MRI)</strong></td>
<td>Navigational Bronchoscopy</td>
</tr>
<tr>
<td><strong>MR Computer-Aided Detection (CAD) for Mammography</strong></td>
<td>Neuroscopy</td>
</tr>
<tr>
<td><strong>MRI-Guided Breast Biopsy</strong></td>
<td>Photodynamic Therapy</td>
</tr>
<tr>
<td><strong>Mammography (Full Field Digital)</strong></td>
<td>Pleurodesis (with Chemotherapy or TaL/C)/Pleuroscopy</td>
</tr>
<tr>
<td><strong>Breast Ductography</strong></td>
<td>PleurX® Tunnneled Pleural Catheter Insertion</td>
</tr>
<tr>
<td><strong>Breast Needle Localization</strong></td>
<td>Pulmonary Function Testing (PFT)</td>
</tr>
<tr>
<td><strong>Mammography Diagnostic and Screening</strong></td>
<td>(including Spirometry, Lung Capacity Studies, Diffusion Analysis and Methacholine Airway Challenge)</td>
</tr>
<tr>
<td><strong>Stereotactic Breast Biopsy</strong></td>
<td>Rigid Ventilating Bronchoscopy and Flexible Bronchoscopy</td>
</tr>
<tr>
<td><strong>Nuclear Medicine Imaging</strong></td>
<td>Super-Dimension GPS Bronchoscopy</td>
</tr>
<tr>
<td>Bone Scan</td>
<td>Transbronchial Needle Aspiration</td>
</tr>
</tbody>
</table>
Angiography/Angioplasty/Stent Placement
Biopsy (CT-Guided, US-Guided)
  • Bone Marrow
  • Liver, Lung, Kidney, etc.
Inferior Vena Cava Filter
Intrathecal Chemotherapy Administration
Percutaneous Biliary Drainage (Internal and/or External Stent Placements)
Percutaneous Gastrostomy/Gastrojejunostomy
Percutaneous Nephrostomy/Urology Procedures
Portal Vein Embolization
Transarterial Therapy
  • Bland Embolization
  • Chemoembolization
  • Intra-Arterial Chemotherapy (IAC)
  • Radioembolization
Transjugular Intrahepatic Portosystemic Shunt (TIPS
Venous Access (PICC, CVC, Port)
Vertebral Augmentation (Kyphoplasty) and Vertebral Tumor Ablation

Mind-Body Medicine
Animal-Assisted Therapy
Counseling (Individual, Couple, Family for Patients and Caregivers)
Crisis Intervention
Expressive Arts (Music, Movement)
HeartMath® Practices (Biofeedback Program)
Introductory Qigong
Laughter/Humor Therapy
Psycho-Educational Groups
Reiki Therapy
Relaxation and Guided Imagery Training
Staff Support
Support Groups

Naturopathic Medicine
Acupressure
Botanical Medicine
Detoxification Therapy
Environmental Medicine
Essential Oils (Aromatherapy Inhalers, Topical Products)
Food Sensitivity Testing
Homeopathy
Hydrotherapy
Lifestyle, Exercise and Stress Management Consultation
Nutritional/Dietary Supplements
Screening for Drug-Herb and Drug-Nutrient Interactions
Vitamins and Minerals

Neurosurgery
Angiography
Awake Surgery
Biopsy
Brain LAB Stereotactic Radiation Surgery
Complex Spine Tumor Resection
Craniotomy
Degenerative Spine Surgery
Endonasal Endoscopy
Instrumented Stabilization
  • Cranectomy with Intraoperative Chemotherapy
Kyphoplasty Cranial Base Surgery
Laminectomy
Minimally Invasive Surgery
Neuroendoscopy
Placement of an Ommaya Reservoir
Six Pillar Surgery
Spinal Tumors and Spinal Decompression
Stealth Navigation and Stereotactic Brain Biopsy
Ventriculoperitoneal Shunt

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

Oncology Rehabilitation
Inpatient Acute Program
  • DVT Early Detection
Fatigue Management
Flexibility Program
Lymphedema Management
Manual Therapy (Massage Therapy)
Occupational Therapy
  • Inpatient Acute Program

Pain Management
  • Manual Therapy
    • Craniosacral Therapy
    • Massage Therapy
    • Myofascial Release
    • Strain/Counterstrain
Pelvic Health Program
  • Pelvic-Bladder Muscle Retraining
  • Bowel/Bladder Behavioral Retraining
  • Biofeedback/Surface EMG
Physical Therapy
  • Motion for Life Program – Fatigue Management
    • Flexibility Program
    • Prehabilitation Program
    • Strength/Aerobic Training
Pre- and Post-Mastectomy Rehab
Pulmonary Rehab
ReBuilder® for Chemotherapy-Induced Peripheral Neuropathy Scar Tissue Mobilization
Speech and Language Pathology
  • Cognitive Impairment (Chemobrain) Program
  • Head and Neck Program
    • Voice and Swallowing Retraining
  • Inpatient Acute Program
  • Phototherapy for Oral Mucositis
  • Video-Fluoroscopy Swallowing Study

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

Pain Management
Anatomical Landmark and Ultrasound 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
Pain Management (cont.)
Joint Injections
Minor and Major Joint and Bursa Injections
Nerve Block/Nerve Root Block
Nerve Injections, Implanted Pain Pumps or Nerve Stimulation Devices
Patient-Controlled Analgesia (PCA) Pain Pump
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 and Laboratory Medicine
Blood and Body Fluid Testing
CellSearch™ Circulating Tumor Cell (CTC) Test
Flow Cytometry
Genetic Testing
Genomic Tumor Assessment
Peripheral Blood Cell-Free DNA (cf-DNA) Testing
Stem Cell and Bone Marrow Transplant Testing and Processing
Surgical Pathology Services
Tumor Molecular Profiling
Tumor Tissue Repository

Radiation Oncology
3D Conformal Radiation
Accelerated Partial Breast Irradiation (APBI)
AccuBoost®
Calypso® Localization System™/GPS for the Body®
Contura™ or Mammosite® Breast Balloon Brachytherapy
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
Linear Accelerator
Local Hyperthermia
Quantitative Ventilation Perfusion Scan
Radioactive Protectants
RapidArc®
SpaceOAR
Stereotactic Body Radiation Therapy (SBRT)
Stereotactic Radiosurgery (SRS)/Stereotactic Radiation Therapy (SRT)
Stereotactic Radiosurgery in Conjunction with Calypso® 4D Localization
Systematic Radiation Therapy/Ra223 Xofigo® Therapy
TomoHDA
Total Body Irradiation (TBI)
Total Marrow Irradiation (TMI)
Total Skin Electron Therapy

Spiritual Support
Assistance with Advanced Directives and/or Living Wills for Health Care
Catholic Communion Services
Catholic Eucharistic Visits
Covers of Love Program
Crisis Intervention
Family Consultations
Grief and Bereavement Counseling and Referral
Interface with Local Pastor and Church Non-Denominational Worship Services
On-Call Chaplains
Our Journey of Hope® Program Prayer (Individual and Group)
Singspiration
Spiritual Counseling
Supportive Groups (e.g., Women’s and Men’s Support Groups, Prayer Group, Christian Meditation)
Taped Ministry
Telephone Consultations

Surgery
Autologous Fat Grafting (Breast Reconstruction)
Biliary and Intestinal Bypass
Breast Conservation/Reconstruction
Breast Surgery
Cystectomy with Urinary Diversion
Cytoreductive (Debulking)
Diagnostic/Staging Surgery
Enteroscopy

Head and Neck Surgery
- Endoscopic Procedures
  - Transoral Robotic Surgery (TORS)
- Extirpative Surgery
  - Glossectomy and Resection (Other Oral Cancers)
  - Laryngectomy
  - Neck Dissection
  - Parotidectomy and Resection (Other Salivary Malignancies)
  - Pharyngectomy
  - Thyroidectomy
  - Free Flap Reconstruction of Head and Neck Defects

Hyperthermic Intraoperative Chemotherapy (HIPEC)
Laryngectomy with Voice Restoration Procedures
Liver Resection
Lymphaticovenular Bypass Surgery
Minimally Invasive Surgery
Oncoplastic and Breast Reconstructive Surgery
Pancreas Resection
Partial Hepatectomy
Pulmonary Lobectomy or Pneumonectomy
Radiofrequency Ablation of Liver
Reconstructive Microsurgery
Reconstructive Surgery
Robotic Surgery
  - Bowel Resection
  - Cholecystectomy
  - Esophagectomy
  - Gastrectomy
  - Hysterectomy
  - Liver Resection
  - Nephrectomy
  - Pancreatectomy
  - Prostate
  - Pyeloplasty
  - Splenectomy

Sentinel Lymph Node Biopsy
Specialized Technology
  - Cavitron Ultrasound Surgical Aspiration/Sonipet (CUSA)
  - da Vinci® Surgical System
  - ERBEJET™ 2
  - Intraoperative Ultrasound
  - Spy Elite System

Urological Surgery
Vascularized Lymph Node Transfer
Video-Assisted Thoracic Surgery (VATS)
Medical Staff

Elham Abboud, MD
Pathologist
Assistant Medical Director of Laboratory Medicine
- Medical degree from Damascus University School of Medicine
- Residency in anatomic and clinical pathology at the University of Illinois at Chicago
- Board certified in anatomic and clinical pathology

Syed A. Abutalib, MD
Hematologist and Medical Oncologist
Assistant Director of Stem Cell Transplant and Cell Therapy Program
- Medical degree from Dow Medical College
- Residency in internal medicine at Cook County Hospital in Chicago
- Fellowship in hematology and oncology at the University of Illinois at Chicago
- Board certified in medical oncology and hematology

Eugene Ahn, MD
Medical Oncologist and Hematologist
Medical Director of Clinical Research in Integrative Oncology
- Medical degree from University of Miami
- Residency in internal medicine at University of Utah
- National Institutes of Health-funded research fellowship in microbiology/immunology
- Board certified in medical oncology, infectious diseases and internal medicine

Nejd F. Alsikafi, MD
Urologist
- Medical degree from Pritzker School of Medicine at the University of Chicago
- Residency in urology at the University of Chicago
- Fellowship in urologic reconstruction at the University of California, San Francisco

Juan Alzate, MD
Neurosurgeon
- Medical degree from Universidad del Valle Medical School
- Training in neurosurgery at the Albert Einstein College of Medicine
- Fellowship in pediatric neurosurgery from Beth Israel Medical Center
- Board certified in neurological surgery
Medical Staff

Miral Amin, MD, FACS
Surgical Oncologist and Oncoplastic Breast Surgeon
- Medical degree from Pramukh Swami Medical College
- Residency in general surgery at St. Joseph Mercy Oakland
- Surgical breast oncology fellowship at Emory University’s Avon Comprehensive Cancer Center
- Aesthetic oncoplastic breast surgery fellowship at the Institute of Aesthetic Surgery and Medicine at Northern Westchester Hospital
- Board certified in general surgery

Herbert Beck III, MD
Gynecologic Oncologist
- Medical degree, internship and residency in obstetrics and gynecology at Northwestern University
- Fellowship in gynecologic oncology at Loyola University Medical Center Affiliated Hospitals
- Board certified in obstetrics, gynecology and gynecologic oncology

Carol Bier-Laning, MD
Otolaryngologist/Head and Neck Surgeon
- Medical degree from University of Colorado Medical School
- Residency in otolaryngology at the University of Minnesota
- Fellowship in head and neck oncology at Ohio State University
- Board certified in otolaryngology

Robert Bloom, MD
Psychiatrist
- Medical degree from Rush Medical College
- Internship and psychiatric residency at Rush-Presbyterian-St. Luke’s Medical Center in Chicago
- Board certified in psychiatry and neurology

C. Komen Brown, MD, PhD
Surgical Oncologist
Chief of Surgery
Director of Peritoneal Surface Malignancy Program
- Medical degree and PhD from University of Florida College of Medicine
- Residency in general surgery at the University of Arizona
- Fellowships in biological therapy at University of Pittsburgh and surgical oncology at the University of Chicago
- Board certified in surgery
Medical Staff

Sung Chang, MD
Radiation Oncologist
- Medical degree from Kyung-Puk University
- Residency/internship at St. Anne’s Hospital and Northwestern Memorial Hospital
- Board certified in radiology

Mingkui Chen, MD, PhD
Pathologist
- Doctor of Medicine from Nanjing University School of Medicine
- Residency in pathology at Creighton University
- Surgical pathology fellowship at Oregon Health and Science University
- Board certified in pathology

Jeffery Choh, MD
Interventional Radiologist
Director of Interventional Radiology
- Medical degree from Ohio State University College of Medicine
- Residency at University of Illinois at Chicago Michael Reese/Mercy Hospital Medical Center in diagnostic radiology
- Fellowship at Cleveland Clinic Foundation in vascular and interventional radiology
- Board certified with an added qualification in vascular and interventional radiology

Dennis Citrin, MB, PhD
Medical Oncologist
- Medical training and PhD from University of Glasgow
- Oncology fellowship at University of Wisconsin-Madison
- Board certified in medical oncology and internal medicine

Michael A. Delatorre, MD
New Patient Evaluation Physician
- Medical degree from De La Salle University College of Medicine
- Postgraduate training in internal medicine at Northwestern University and St. Joseph Hospital
- Board certified in internal medicine

Tina Fabiano, DO
Quality of Life Physician
- Doctor of Osteopathic Medicine from Southeastern University College of Osteopathic Medicine
- Internal medicine internship at NorthShore University Health System
- Internal medicine residency at Broward Health Medical Center
- Board certified in internal medicine
Medical Staff

**Hongyu Fang, MD**
Anesthesiologist
- Medical degree from Jilin Medical College
- Residency in anesthesiology at the Medical College of Wisconsin
- Board certified in anesthesiology

**Laura Farrington, DO**
Medical Oncologist
- Doctor of Osteopathic Medicine from Midwestern University, Chicago College of Osteopathic Medicine
- Residency and internship in internal medicine at the Medical College of Wisconsin
- Medical oncology fellowship at East Tennessee State University
- Board certified in medical oncology and internal medicine

**Yiping Fu, MD, FCCP**
Interventional Pulmonologist
- Medical degree from Beijing Medical University
- Master’s degree from Cornell University Graduate School of Medical Sciences
- Residency in internal medicine at the State University of New York Health Science Center
- Fellowship in pulmonary and critical care at the University of Chicago Hospital
- Board certified in interventional pulmonology and pulmonary, critical care and sleep medicine

**Bruce Gershenhorn, DO**
Medical Oncologist
- Doctor of Osteopathic Medicine from Philadelphia College of Osteopathic Medicine
- Internal medicine residency at Beth Israel Medical Center
- Fellowship at Montefiore Medical Center
- Board certified in hematology and medical oncology

**Melissa Haglund, MD, FACP**
New Patient Evaluation Physician
- Medical degree from University of Chicago Pritzker School of Medicine
- Internship and residency in internal medicine at Lutheran General Hospital
- Fellowship-trained in anti-aging and metabolic medicine
- Board certified in internal medicine and lipidology
Medical Staff

Syed Haider, MD
Hematologist and Medical Oncologist
- Bachelor of Medicine-Bachelor of Surgery from Dow University of Health Sciences
- Residency in internal medicine at Oakwood Hospital and Medical Center
- Fellowship in hematology and oncology at the University of Tennessee Health Science Center
- Fellowship in malignant hematology and stem cell transplantation at Vanderbilt University Medical Center
- Board certified in internal medicine and medical oncology

Hatem Halabi, MD, FACS
Surgical Oncologist
- Medical degree from American University in Beirut
- General surgery residency and fellowship in surgery, medical informatics and telemedicine at the Medical College of Virginia
- Surgical oncology fellowship at Institute for Cancer Care at Mercy Health Services
- Studied translational research in clinical oncology at the National Cancer Institute
- Board certified in general surgery

Joshua Herskovic, MD
Anesthesiologist
- Medical degree from Wayne State University School of Medicine
- Internship and residency at University of Illinois at Chicago Medical Center
- Board certified in anesthesiology

Supriya Raina-Hukku, MD
Pathologist
- Medical degree from Wayne State University School of Medicine
- Anatomical/clinical pathology residency and a hematopathology fellowship at Wayne State University
- Board certified in anatomical/clinical pathology and hematopathology

Harold Huss, DO, FACS
Surgical Oncologist
- Doctor of Osteopathic Medicine from Chicago College of Osteopathic Medicine of Midwestern University
- General surgery residency at University of Massachusetts Memorial Medical Center
- Research fellowship in gastrointestinal oncology at the Memorial Sloan-Kettering Cancer Center
- Research fellowship in immunology at Brigham and Women’s Hospital at Harvard Medical School
- Surgical oncology fellowship at the University of Pittsburgh Medical Center
- Board certified in general surgery
Medical Staff

Solomon R. Katta, MD
Hospitalist
- Medical degree from St. Matthew’s University School of Medicine
- Fellowship in geriatric medicine
- Residency in family medicine at Grant Medical Center
- Board certified in family medicine

Raza Khan, MD
Urologist
- Medical degree from King Edward Medical University
- Internship at McNeal Memorial Hospital
- General surgery residency at the VA Medical Center
- Urology residency at the National Naval Medical Center
- Board certified in urology

Jonathan Kiev, MD, FACS
Thoracic Surgeon
- Medical degree from Tulane University School of Medicine
- Residency at Hahnemann University Hospital
- Fellowship at the Mayo Clinic for advanced thoracic surgery
- Fellowship at the University of Pittsburgh Medical Center for minimally invasive thoracic surgery
- Fellowship at Loma Linda University Medical Center in cardiothoracic surgery
- Board certified in surgery and thoracic surgery

Robert Levin, MD
Medical Oncologist
- Medical degree from Pritzker School of Medicine
- Residency and fellowship in hematology and oncology at Northwestern University
- Board certified in internal medicine and medical oncology

Charles Lindsey, MD
Hospitalist
- Medical degree from Finch University of Health Sciences/The Chicago Medical School
- Family practice residency through the Medical College of Wisconsin

Daniel Liu, MD
Plastic and Reconstructive Surgeon
- Medical degree from Washington University in St. Louis
- Internship and residency in plastic surgery at the University of Washington in Seattle
- Board certified in plastic surgery
Medical Staff

Asim Mahmood, MD
Anesthesiologist
- Medical degree from Sindh Medical College of Dow University of Health Sciences
- Internship and residency in anesthesiology at John Stroger Jr. Hospital of Cook County
- Housemanship in medicine and surgery at Jinnah Postgraduate Medical Center
- Fellowship in pediatric anesthesiology at the University of Illinois Medical Center
- Board certified in anesthesiology

Alfonso V. Mellijor, MD
New Patient Evaluation Physician
- Medical degree from Cebu Institute of Medicine
- Surgical residency training at St. John’s Episcopal Hospital
- Fellowship in surgical oncology at the State University of New York

Madhavi Nagilla, MD
Hospitalist
- Medical degree from SVS Medical
- Residency at St. Joseph Hospital in Chicago
- Board certified in internal medicine

Rajeev Nayar, MD
Gastroenterologist
- Medical degree from Maulana Azad Medical College
- Doctor of Medicine from Delhi University
- Internship and residency in internal medicine and fellowship in gastroenterology and hepatology through Georgetown University/VA Medical Center
- Advanced endoscopy training at St. Luke’s Medical Center in Milwaukee with GI Consultants
- Board certified in gastroenterology

Rakhshanda Neelam, MD
Medical Oncologist
- Medical degree from Fatima Jinnah Medical College
- Residency at Edgewater Hospital in Chicago
- Fellowship in medical oncology and hematology at the Chicago Medical School
- Board certified in internal medicine, medical oncology and hematology
Medical Staff

Kamal M. Patel, MD
Radiation Oncologist
Medical Director, Radiation Oncology
Chair of Cancer Committee

- Medical degree and master’s degree in applied physiology from Chicago Medical School
- Internship at Mt. Sinai Hospital in Chicago
- Board certified in radiation oncology

Nimesh Patel, MD
Radiologist

- Medical degree from Rush Medical College
- Diagnostic radiology residency and fellowship in abdominal imaging at Emory University
- Board certified in diagnostic radiology

Sutchin R. Patel, MD, FACS
Urologist

- Medical degree from Brown University
- Residency in urology at Warren Alpert Medical School of Brown University
- Fellowship in robotics, laparoscopy and endourology at the University of Wisconsin
- Board certified in urology

Brent C. Paxton, DC
Chiropractic Physician

- Bachelor of Science in human biology
- Doctor of Chiropractic from National College of Chiropractic

Aaron Pelletier, MD
Plastic and Reconstructive Surgeon

- Medical degree from University of North Carolina School of Medicine
- Plastic and reconstructive surgery residency at University of Chicago Medical Center
- Zaccone Family Fellowship in reconstructive microsurgery and breast surgery at the University of Chicago Medical Center
- Board certified in plastic surgery

Evan Pisick, MD
Medical Oncologist

- Medical degree from Boston University
- Internship and residency at Mount Sinai Medical Center
- Fellowship at Tufts Medical Center
- Board certified in medical oncology and hematology
Medical Staff

Stephanie Pittenger, DC
Chiropractic Physician
- Doctor of Chiropractic from Palmer College of Chiropractic
- Bachelor of Science from Aurora University
- Certified in physical therapy

Ravi Prakash, MD, MRCP
Gastroenterologist
- Medical degree from Bangalore Medical College and Research Institute
- Internal medicine residency and internship from Case Western Reserve University
- Endoscopic retrograde cholangiopancreatography and endoscopic ultrasound fellowships at the University of Florida Shands Hospital
- Gastroenterology and hepatology fellowship at Case Western Reserve University
- Board certified in internal medicine and gastroenterology

Raed Rahman, DO
Medical Director of Interventional Pain Management
- Doctor of Osteopathic Medicine from Midwestern University, Chicago College of Osteopathic Medicine
- Anesthesiology residency and internal medicine internship at Cook County Hospital
- Pain management fellowship at University of Chicago Medical Center
- Board certified in anesthesiology, pain medicine, and hospice and palliative medicine

Stephen Paul Ray, MD, FACS, DABMA
Plastic and Reconstructive Surgeon
Medical Director of Oncoplastic and Reconstructive Surgery
Medical Director of Breast Cancer Center
- Medical degree and residency from University of Rochester Medical School
- Board certified in plastic and reconstructive surgery and acupuncture

Istvan Redei, MD
Hematologist and Medical Oncologist
Chief, Division of Stem Cell Transplantation, Department of Medical Oncology
- Medical degree from Semmelweis University
- Residency at New York Medical College
- Fellowship in hematology at Temple University
- Fellowship in oncology at Fox Chase Cancer Center
- Board certified in hematology and medical oncology
Medical Staff

Steven H. Sabath, DO
Hospitalist
- Doctor of Osteopathic Medicine from Chicago College of Osteopathic Medicine
- Internal medicine residency at Advocate Lutheran General Hospital
- Board certified in internal medicine and hospice and palliative care medicine

Juan Sanabria, MD
Surgical Oncologist
- Medical degrees from Our Lady of the Rosary University and the University of Toronto
- Master of Science from the Institute of Medical Sciences, University of Toronto
- Residency at Andes Medical Center and in general surgery at Toronto General and Mount Sinai Hospitals, University of Toronto
- Fellowship in hepatopancreaticobiliary surgery (HPB) and abdominal transplant surgery at the University of Toronto
- Fellow of the American College of Surgery (FACS), Fellow of the Royal College of Surgeons of Canada (FRCSC), and Fellow of the American Association for the Study of Liver Diseases (FAASLD)
- Board certified in surgery

Richard Schmidt, MD
Orthopedic Oncologist
- Medical degree from Pennsylvania State University College of Medicine
- Internship, orthopedic residency and fellowship in orthopedic research at The Hospital of the University of Pennsylvania
- Orthopedic oncology fellowship at Shands Hospital at the University of Florida in Gainesville
- Board certified in orthopedic surgery

Peter Senatore, DO
Medical Director of the Oncology Immediate Care Clinic and Emergency Room
Chairman of Utilization Review Committee and Credentialing Committee
Physician Advisor for Employee Health, Quality Safety and Risk Management and Medical Staff Office
- Doctor of Osteopathic Medicine and fellowship from Chicago College of Osteopathic Medicine
- Residency at Mount Clemens General Hospital in Michigan and the United States Navy
- Certified in utilization review quality assurance and physician executive medicine
- Board certified in emergency medicine and family practice
Medical Staff

Karan Shah, MD, MBA
Radiation Oncologist
- Doctor of Medicine from Loyola University of Chicago, Stritch School of Medicine
- Radiation oncology residency from Loyola University Medical Center
- Transitional internship at Resurrection Medical Center
- Board eligible in radiation oncology

Rohit R. Shah, MD
Medical Oncologist
New Patient Evaluation Physician
- Medical degree from Maharaja Sayajirao University of Baroda
- Internal medicine internship at Cook County Hospital
- Residency at Mercy Hospital
- Oncology-hematology fellowship at Edward J. Hines VA Hospital
- Board certified in medical oncology and internal medicine

Laeeq Shamsuddin, MD
Medical Director, Sleep Diagnostic Center
Pulmonologist
- Medical degree from Saba University School of Medicine
- Residency at Mercy Hospital and Medical Center, University of Illinois at Chicago
- Fellowship in pulmonary, critical care and sleep medicine at the University of Vermont
- Board certified in critical care medicine, internal medicine, pulmonary disease and sleep medicine

Sonya Sharpless, MD
Breast Surgeon
- Medical degree from Queen's University
- Internship and general surgery residency at the University of Manitoba
- Fellowship in surgical oncology at the University of Illinois in Chicago
- Board certified in general surgery

Ashwin Sheelvanth, MD
Medical Oncologist/Hematologist
- Medical degree from J.J.M. Medical College
- Residency and fellowship at the New York Medical College
- Board certified in medical oncology and hematology
Medical Staff

Pakorn Sirijintakarn, MD  
Radiologist  
- Medical degree from Chulalongkorn University Medical School  
- Internship and residency at Mount Sinai Hospital  
- Board certified in diagnostic radiology

Karen Smorowski, MD  
Radiation Oncologist  
- Medical degree from University of Illinois College of Medicine  
- Internship in surgery and residency in radiation oncology at Rush-Presbyterian-St. Luke’s Medical Center  
- Board certified in radiology

Christopher McCord Stephenson, DO  
Internal and Hospital Medicine  
Medical Director of the Quality of Life Center, Survivorship Support  
- Doctor of Osteopathic Medicine from Chicago College of Osteopathic Medicine  
- Residency in internal medicine and internship in osteopathic medicine at Cook County Hospital in Chicago  
- Board certified in internal medicine

Narayan Sundaram, MD, MBA  
Radiologist  
- Medical degree from Vanderbilt University School of Medicine  
- Residency in radiology at the Emory University School of Medicine  
- Fellowship in musculoskeletal radiology at the University of Chicago Medical Center  
- Board certified in radiology

Laura Sunn, MD  
Psychiatrist  
- Medical degree from University of Missouri Medical School  
- Residency in general psychiatry at the Menninger Foundation  
- Fellowship in child psychiatry at the Medical College of Wisconsin in Milwaukee  
- Certified in hypnosis, biofeedback and Brennan Healing Science  
- Board certified in child and adult psychiatry, neurology and integrative holistic medicine
Medical Staff

Revathi Suppiah, MD
Medical Oncologist
- Medical degree from Sri Ramachandra Medical College and Research Institute
- Residency in internal medicine at the University of Missouri Columbia School of Medicine and Wayne State University/Sinai-Grace Hospital
- Fellowship in hematology and oncology at the Cleveland Clinic Foundation
- Board certified in internal medicine, hematology and oncology

Leo Taiberg, MD
Critical Care Physician
- Medical degree from Medical Institute of Tashkent
- Internal medicine internship at the University of Oklahoma Health Sciences Center
- Internal medicine residency at Resurrection/Westlake Hospital
- Critical care medicine fellowship at Rush University Medical Center/Cook County Hospital
- Board certified in internal medicine, critical care medicine and neurocritical care medicine

Bradford A. Tan, MD
Pathologist
Chair, Department of Pathology and Laboratory Medicine
Chief of Staff
- Medical degree from Cebu Institute of Medicine
- Anatomic and clinical pathology residency at the University of Illinois Metropolitan Group Hospitals
- Board certified in anatomic pathology, clinical pathology and cytopathology

Kaoutar Tlemcani, MD
Medical Oncologist
- Medical degree from Mohamed V University
- Internal medicine residency at Englewood Hospital and Medical Center
- Fellowship in hematology and oncology at Montefiore Medical Center
- Board certified in internal medicine, hematology and medical oncology

Glynis Vashi, MD
Internal Medicine Physician
Chief of Medicine
Medical Director, Nurse Navigation
- Medical degree and postgraduate training from University of Bombay
- Internal medicine residency at Michigan State University
- Board certified in internal medicine
Medical Staff

**Pankaj G. Vashi, MD**  
Gastroenterologist  
Chair, Department of Medicine  
- Medical degree from University of Bombay  
- Residencies at Bombay’s Goa Medical College and Hurley Medical Center  
- Fellowship at University of Michigan  
- Board certified in internal medicine and gastroenterology

**Shelly Vijay, MD**  
Hospitalist  
- Bachelor of Medicine-Bachelor of Surgery from Indira Gandhi Medical College  
- Internal medicine residency at North Shore-Long Island Jewish Forest Hills Hospital  
- Board certified in internal medicine with an ECFMC certificate, an Advanced Cardiac Life Support (ACLS) certificate and a Basic Life Support (BLS) certificate

**Sybilann Williams, MD**  
Gynecologic Oncologist  
- Medical degree from University of Connecticut School of Medicine  
- Residency at Hartford Hospital  
- Fellowship at Washington University School of Medicine

**Sylvia Xi-Moy, MD**  
Chief Anesthesiologist  
- Medical degree from School of Traditional Chinese Medicine of Peking  
- PhD from Stritch School of Medicine, Loyola University  
- Residency in anesthesiology and internship at Froedert Memorial Hospital and Medical College of Wisconsin Affiliated Hospitals  
- Board certified in anesthesiology

**Kenny S. Yoo, MD**  
Interventional Radiologist  
- Medical degree from Rush Medical College  
- Residencies in nuclear medicine and diagnostic radiology at Strong Memorial Hospital  
- Fellowship in interventional radiology at Strong Memorial Hospital  
- Board certified in radiology and certificate of added qualification in vascular and interventional radiology
Integrative Services

Sadie Dahlk, RD, LDN, CNSC, CSO
Manager of Nutrition
- Bachelor of Science in dietetics from University of Wisconsin-Steven’s Point
- Dietetic internship through University of Wisconsin Hospital and Clinics in Madison
- Board certified in nutrition support and oncology nutrition

Carolyn Lammersfeld, MS, RD, CSO, LD, MBA
Vice President of Integrative Medicine
- Master’s degree in clinical nutrition and postgraduate internship from Rush University Medical Center in Chicago
- Master of Business Administration in health care management from Quinlan School of Business, Loyola University, Chicago
- Bachelor of Science in nutrition and dietetics from Bradley University
- Certified in oncology nutrition

Stanislav Maravilla, PT, MBA, CLT
Director of Rehabilitation Services
- Bachelor of Science in physical therapy from Southwestern University in the Philippines
- Licensed physical therapist

Katherine L. Puckett, PhD, MS, MSW, LCSW
Chief, Division of Mind-Body Medicine
- Doctor of Philosophy from University of Chicago
- Master’s degree in management of rehabilitation services from DePaul University
- Master of Social Work from Loyola University of Chicago
- Certified Laughter Leader, certified Qigong instructor, master Reiki practitioner

Christina Shannon, ND, FABNO
Clinical Director of Naturopathic Medicine
- Doctor of Naturopathic Medicine from Bastyr University
- Master’s degree in health care management expected in August 2016 from Loyola University, Chicago
- Bachelor of Science from State University of New York
- Certified by the American Board of Naturopathic Examiners

Rev. Carl Williamson
Manager, Pastoral Care
- Bachelor of Arts in bible theology from Moody Bible Institute
- Licensed minister
Accreditations and Recognition

CTCA at Midwestern is accredited and recognized by several renowned professional health care organizations that supervise the quality of cancer care, including:

**Top Performer on Key Quality Measures®,** awarded in 2014 for the second year in a row by The Joint Commission for exemplary performance in using evidence-based clinical processes. Midwestern is one of only 56 hospitals in Illinois to earn the distinction of Top Performer on Key Quality Measures for 2013 and one of 712 hospitals to achieve the Top Performer distinction for the past two consecutive years. The hospital was recognized for attaining and sustaining excellence in accountability measure performance in surgical services.

**Certified Quality Breast Center of Excellence™,** awarded in 2015 for the second consecutive term by National Quality Measures for Breast Centers™ (NQMBC®) Program. The Midwestern breast center is the only center in Illinois with this certification, and one of only 50 centers nationally.

**Magnet Recognition®,** recognized in December 2013 for excellence in nursing. Awarded by the American Nurses Credentialing Center (ANCC), Magnet status is considered the highest honor a hospital can achieve for its nursing. Of the nearly 6,000 hospitals in the United States, less than seven percent have Magnet Recognition.

**Foundation for the Accreditation of Cellular Therapy (FACT),** recognized in 2014 for demonstrating compliance with the FACT-JACIE International Standards for Cellular Therapy Product Collection, Processing and Administration.

**Quality Oncology Practice Initiative (QOPI®) Certification Program,** an affiliate of the American Society of Clinical Oncology (ASCO), awarded to Midwestern in 2014 for meeting the highest standards for quality cancer care. The QOPI Certification Program (QCP) provides a three-year certification for outpatient hematology-oncology practices that meet its benchmarks.

**Accreditation with Commendation Award** by the American College of Surgeons Commission on Cancer in 2014.
Five-Star Quality Score, the highest possible rating by the Centers for Medicare & Medicaid Services (CMS) in 2015. The ratings, published by CMS and designed to help consumers compare hospitals, evaluated patient experiences at 3,553 hospitals nationwide from July 2013 to June 2014. Midwestern is the only five-star hospital in the Chicagoland area.

National Accreditation Program for Breast Centers (NAPBC), awarded in 2013 for a three-year accreditation for the hospital’s breast program.

2015 Top Hospital by The Leapfrog Group, a recognition that showcases the hospital’s commitment to providing safe, efficient and high-quality patient care. Out of the 1,600 hospitals that reported information to the Leapfrog Group, CTCA at Midwestern was one of only 98 to receive the honor of being named a Top Hospital in 2015.

CTCA ranked fifth in YouGov BrandIndex’s annual “Brand Buzz” rankings among 1,500 brands, a measure of positive consumer sentiment toward brands in the United States. CTCA is the only health care company to make it onto the list of top 10 brands, and also led all hospital brands, a sector that has been tracked by YouGov BrandIndex since April 2014.

Midwestern is also accredited or certified by the following health care organizations:

- American Association of Blood Banks
- College of American Pathologists
- Clinical Laboratory Improvement Act (CLIA-certified Clinical Laboratory)
- National Marrow Donor Program
- Center for Medicare and Medicaid Services
- Intersocietal Accreditation Commission—Echocardiography and Vascular Testing
- American College of Radiology’s Radiation Oncology Accreditation
- Association of Community Cancer Centers

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.