Each year, OhioHealth shares a report with our physician partners and the community highlighting the work we do to meet or exceed standards for cancer care set by the American College of Surgeons Commission on Cancer (CoC). This report exemplifies our efforts in 2017 to continuously improve the quality of care we provide our patients across our health system, and details our efforts to detect cancer at its earliest stages.

At OhioHealth, we believe excellent care provided close to home supports better outcomes and a more positive experience for our patients and their families and caregivers. We serve 33 Ohio counties, and communities as far north as Mansfield and as far south as Athens.

We are a certified member of MD Anderson Cancer Network®, a program of MD Anderson Cancer Center, a world-renowned leader in cancer care. MD Anderson is one of the nation’s original comprehensive cancer centers designated by the National Cancer Institute to help pioneer guidelines that set the standard of cancer care today.

The relationship between OhioHealth and MD Anderson Cancer Network® gives our patients and certified specialists access to nationally recognized cancer care protocols and best practices that improve the likelihood of positive outcomes. Our cancer specialists work with a patient’s primary care physician and, in some cases, an MD Anderson cancer specialist in Houston to develop a personalized treatment plan. Our cancer specialists can also present their recommendations at multidisciplinary treatment conferences and obtain treatment advice through peer-to-peer consultations. In some cases, we arrange for patients to receive consultation and treatment at MD Anderson Cancer Center in Houston.

Care provided by OhioHealth cancer specialists is reviewed by the MD Anderson Physicians Network® on an ongoing basis, ensuring that we are providing care that is based on nationally recognized standards.

Seven of our 10 hospitals and nearly 80 of our affiliated physicians are certified members of MD Anderson Cancer Network®.

Our certified facilities:

- OhioHealth Riverside Methodist Hospital
- OhioHealth Grant Medical Center
- OhioHealth Doctors Hospital
- OhioHealth Dublin Methodist Hospital
- OhioHealth Grady Memorial Hospital
- OhioHealth Marion General Hospital
- OhioHealth Mansfield Hospital
OhioHealth is focused on delivering quality care as close to home as possible. In fiscal year 2017, we expanded cancer care across all of our service areas, opening two new Radiation Oncology centers and welcoming new physicians in ATHENS, COLUMBUS, DELAWARE, MANSFIELD and MARION. This means that patients who require radiation therapy, for example, won’t have to drive two hours every day for treatment that can last as long as six weeks. They can receive most of the cancer care they need close to where they live and work.

IN DELAWARE
OhioHealth Delaware Health Center was expanded to include all the care that cancer patients need in one location with the opening of a 7,000-square-foot Radiation Oncology unit in May 2017. The unit is equipped with a state-of-the-art linear accelerator, or LINAC, which uses high-energy X-rays to target cancer cells while keeping normal tissue intact, enabling individualized treatment of every cancer patient. With that, Delaware Health Center welcomed radiation oncologist Andrew Freeman, MD, who joins the team’s two medical oncologists, nurse practitioner and oncology-trained infusion nurses.

IN CENTRAL OHIO
OhioHealth welcomed four physician specialists to our Cancer Care team. Surgeon Stephanie Goare, MD, who joined OhioHealth Cancer and Surgical Specialists, treats patients with breast, thyroid and parathyroid cancers and melanoma at OhioHealth Riverside Methodist Hospital. Thoracic surgeon Vincent Daniel, MD, who joined OhioHealth Heart, Lung & Vascular Surgeons, uses minimally invasive, image-guided and robot-assisted procedures to treat patients with complex cancers of the chest at OhioHealth Grant Medical Center. Medical oncologist Shabana Dewari, MD, who joined Ohio Oncology and Hematology, treats patients at Riverside Methodist and OhioHealth Dublin Methodist Hospital. In addition, radiation oncologist Virginia Diauditis, MD, who joined Riverside Radiation Oncology, treats patients at Riverside Methodist and Dublin Methodist.

IN ATHENS
OhioHealth O’Bleness Hospital opened a new Radiation Oncology unit in the OhioHealth Castrop Health Center that’s equipped with a LINAC and an updated infusion center. The unit also provides additional office and workspace for Medical Oncology and Radiation Oncology, a dosimetrist and a physicist. O’Bleness Hospital also welcomed radiation oncologist Andrew Freeman, MD, who joins the team’s two medical oncologists, nurse practitioner and oncology-trained infusion nurses.

IN THE NORTH REGION
OhioHealth welcomed medical oncologist Farrukh Ashraf, MD, who treats patients in Marion and Hardin, and medical oncologist Katherine Exten, MD, who treats patients in Mansfield.
COMMUNITY
Outreach and Awareness

SURVIVORSHIP STANDARD 3.3
New survivorship lecture series
Moving from active treatment to survivorship is an important transition for cancer patients and their families. During a focus group we conducted in October 2016, participants told us that, among 16 topics, cancer survivors considered these issues most important during their transitions:
  + Cancer prevention
  + Nutrition
  + Exercise and wellness
  + Finding their new normal
  + Connecting with others who have gone through the experience

Using what we learned, we launched the OhioHealth Cancer Care Survivorship Lecture Series in May 2017 on campuses in central Ohio. The series is designed to educate, inform, connect and inspire patients and their caregivers. OhioHealth physicians and subject matter experts presented.
  + Finding your new normal
  + Cancer screening and prevention
  + Symptom management

The response has been overwhelmingly positive, based on a survey of 180 attendees, and OhioHealth is now looking to offer more lectures in more service areas.

SCREENING STANDARD 4.2
Melanoma is the seventh most common type of cancer in Ohio, according to the American Cancer Society, with firefighters, golfers and people who work outdoors making up our highest-risk populations.

To improve these numbers, OhioHealth participates in a number of screening events throughout the region, including the Ohio Fire Chief Conference, a four-day conference held in July that is attended by more than 500 firefighters from across the state. More than 60 firefighters took advantage of skin screening and lung screening monitoring offered at the event this year. In addition, OhioHealth hosted skin screening events throughout the region:
  + OhioHealth Mansfield Hospital — April 28
  + OhioHealth Grant Medical Center — May 1
  + OhioHealth Marion Hospital — May 4
  + OhioHealth Riverside Methodist Hospital — May 5
  + OhioHealth O’Bleness Hospital — May 19

OUTCOMES

+ Of the 265 people screened, 244 patients identified as Caucasian, one as African American, two as Hispanic, four as Asian and 14 as other.
+ Average age of those screened was 59.3 years old.
+ 215 people underwent a complete exam, six chose face and arms only, 12 were examined above the waist, and six had a specific lesion examined; an additional 26 individuals were screened.
+ Overall, 97 biopsies were recommended and 145 patients received referrals.

+ Patients may have had more than one diagnosis

CLINICAL EDUCATION STANDARD 1.10
OhioHealth hosts continuing medical education (CME) events throughout the year at the system and care site level to advance the knowledge, competence and performance of our physicians and clinicians.

In addition to physicians, we welcome medical students, residents, nurses and nurse practitioners, and other healthcare professionals from OhioHealth and throughout the state to foster multidisciplinary collaboration. The OhioHealth Cancer Conference and Breast Health Symposium are our premier annual CME events that focus on specific topics related to cancer care.

2017 OhioHealth Cancer Conference
Four cancer specialists from MD Anderson Cancer Center joined OhioHealth physicians in presenting in-depth reviews on the topics of upper gastrointestinal malignancies, human papilloma virus (HPV) and urologic cancer. The conference also included case studies examining current therapies through various stages of cancer diagnosis.

The CME event, held August 12, 2017, attracted 140 local physicians and clinicians — the largest attendance yet for this annual event.

2017 Breast Health Symposium
Cancer specialists from the Mayo Clinic and MD Anderson Cancer Center were the keynote speakers for the 2017 Breast Health Symposium, which focused on management of high-risk patients and patients with benign breast disease, and the role each cancer specialty plays in the treatment and prevention of these diseases.

The November CME event provided 65 physicians, residents and nurses information key to the treatment of high-risk breast cancer patients.

DIAGNOSIS # OF PATIENTS*
---
Seborrheic keratosis       96
Actinic keratosis          61
Basal cell carcinoma       37
Squamous cell carcinoma    9
Dysplastic nevus           30
Congenital nevus           7
Melanoma                   1
Mole/Nevus                 53
Other                      103
QUALITY IMPROVEMENTS STANDARD 4.8

OhioHealth saw an opportunity to improve the quality of life and decrease treatment costs for patients receiving palliative care for bony metastasis. In 2017, we embarked on a project that has led to a new standard of care for these patients across our health system. Under the project, the Radiation Oncology team reduced the usual dosing scheme for radiation therapy from 10 fractions to five fractions without compromising symptom management. The evidence-based practice showed no difference in outcomes or symptom management with a lower fractionation scheme. Within three months, we were using the new practice with patients at OhioHealth Riverside Methodist Hospital and OhioHealth Dublin Methodist Hospital, and within six months the practice had expanded across our health system.

OUTCOMES

Radiation Oncology defined success as the number of palliative care patients who receive the decreased dosing scheme (numerator) over the total number of palliative care patients receiving radiation treatment (denominator).

During the first three quarters of 2017 of 148 patients eligible, we achieved 86 percent compliance, expanding the protocol to the eight-system radiation oncology treatment sites.

American Cancer Society Excellence Award

In May 2017, OhioHealth was presented the 2016 Health Systems Excellence Award from the American Cancer Society (ACS), East Central Division, for going above and beyond in embracing the full scope of its relationship with the ACS and advancing organizational priorities.

Receiving the American Cancer Society’s 2016 Health Systems Excellence Award were, from left: Jamie Harness, MHA, business project manager; Cancer Care; Pauline K. Russ, PT, system director, Surgery; Breast Health, Genetics; Rachel Driskell, manager, Marketing Communications; LeeAnna Hungerford, MHA, FACHE, senior director, System Operations, Cancer Care; Jason Rawe, MBA, system program manager, Radiation Oncology; Buffy Jansak, MBA, RN, OCN, system director, Medical Oncology; and Gail Frankeberger, DNP, RN, CPHQ, director, Facilities Certification.
Screenings for breast, lung and colon — the top three cancers in Franklin County — screening more than 6,500 people.

Studies have shown that early detection of cancer saves lives and increases treatment options. OhioHealth Doctors Hospital has long offered screening events and programs to support detection of cancer in its early stages. In fiscal year 2017, Doctors Hospital provided screenings for breast, lung and colon — the top three cancers in Franklin County — screening more than 6,500 people.

**OUTCOMES**

**Breast Cancer**  
(July 2016 to August 2017)
- Doctors Hospital, including OhioHealth Hilliard Health Center, performed 5,874 screening mammograms; of those, 626 patients were recommended for additional imaging, 227 patients were biopsied, and 41 patients were diagnosed with breast cancer.

**Colon Cancer**  
(Annualized totals from January to June 2017)
- 880 people are expected to receive outpatient screening colonoscopies in 2017, of those screened between January and June 2017, 15 patients were diagnosed with colon cancer.
- Achieved an adenoma detection rate of 52 percent (110 patients) in the third quarter ended March 30, and 62.1 percent (141 patients) in the second quarter, ended June 30, exceeding the standard of 25 percent (greater than or equal to 25 percent in men over 50 and 15 percent in women over 50) set by the American Society for Gastrointestinal Endoscopy (ASGE) for adequate colonoscopy quality. Doctors Hospital’s adenoma detection rate was 57 percent.

**Lung Cancer**  
(January to August 2017)
- Through the OhioHealth Lung Screening Program, a multidisciplinary approach to screening for patients who are at higher risk for developing lung cancer, 238 people received low-dose chest CT scans for lung cancer; of those, 24 patients received an abnormal screening that required follow-up.
- Three patients were diagnosed with earliest stage lung cancer — Stage 0, Stage 1a and unknown primary cancer that had metastasized.
- Offered five tobacco cessation courses, with 11 participants completing the course; of those, four successfully quit tobacco and five reduced their tobacco use.

**2017 HIGHLIGHTS**

- Received reaccreditation by the American College of Radiology for Hobbs Radiation Oncology
- Established a Prostate Multidisciplinary Cancer Clinic offering free consultations and treatment recommendations from five oncology specialists.
- Held 33rd annual Cancer Day CME event, connecting primary care physicians, nurses and allied health professionals with evidence-based information and raising awareness of treatment options close to home.
- Hired outpatient oncology social worker Brendan Hurst, LISW, to expand supportive care services.
- Added a third tobacco treatment specialist Elisabeth Lang, RRT, RCP, TTS, to expand the reach of our tobacco cessation program in the community.

**SCREENING STANDARD 4.2**

Patient navigation for colorectal cancer patients

In January 2017, Doctors Hospital embarked on a quality improvement project to reduce anxiety in patients diagnosed with colorectal cancer, ensure they keep their appointments and support family members by connecting them as soon as possible with a patient navigator. The team’s goal was to navigate 100 percent of colorectal cancer patients by immediately referring them to a patient navigator after physician notification. The team also evaluated patient education materials used throughout the patient experience.

**OUTCOMES**

- For 13 patients with colorectal cancer identified, the average time from pathology referral to initial contact from a patient navigator was 6.8 business days — a significant decrease in the time between diagnosis and patient navigation intervention. Previously, patients with colon cancer were seen postoperatively or not at all because not all surgical patients were referred for navigation. Now that patients are being referred to a patient navigator from the physician’s office, pathology and the endoscopic suite, they are getting support from a navigator sooner at key points in their care.
- The new process improved the experience for patients and their family members, connecting them with emotional support, education, supportive services and providing guidance through the complex treatment of colorectal cancer faster than before.

**QUALITY IMPROVEMENTS STANDARD 4.8**

**Endoscopic bronchial ultrasound (EBUS) lymph node sampling**

Image-guided transbronchial needle aspiration (TBNA) using endoscopic bronchial ultrasound (EBUS) is a more accurate method for staging lung cancer and diagnosing mediastinal masses so that more invasive interventions can be avoided and treatment can be individualized to each patient. The minimally invasive procedure enables the physician to guide a fine needle through the bronchus to aspirate cells from lymph nodes that are showing abnormal cell growth. Doctors Hospital saw an opportunity to improve quality, and from July through September 2016, Endoscopy began tracking the percentage of adequate lymph node sampling using EBUS-TBNA, establishing a baseline of 78 percent.

**OUTCOMES**

- 75 percent of patients were screened for distress.
- Doctors Hospital added an oncology social worker, Brendan Hurst, LISW, to its team so that patients receive more timely assistance once their needs are identified.
Breast Cancer
In October 2017, OhioHealth Dublin Methodist Hospital held a breast cancer screening event on-site, where patients were scheduled for mammograms based on the date of their most recent screening. Breast surgeon Natalie Jones, MD, FACS, and patient navigators also provided cancer education and clinical guidance at the event.

OUTCOMES
- 55 patients received cancer education and 37 patients were scheduled for screening.

2017 HIGHLIGHTS
- Increased the hospital’s designation level by the American College of Surgeons Commission on Cancer to Comprehensive Community Cancer, with 871 analytic cancer cases.
- Accrued more than 500 patients to three different clinical trials.
- Added on-site massage therapy for cancer patients with lymphedema and other complications from cancer treatment.
Breast Cancer
In fiscal year 2017, OhioHealth Grady Memorial Hospital held three breast cancer screening events at Grady Memorial, OhioHealth Delaware Health Center and SourcePoint of Delaware County. Patients were scheduled on-site based on the date of their most recent screening. Radiology staff and patient navigators also provided breast cancer education and clinical guidance at the events.

OUTCOMES
- 71 individuals attended the events; of those, 52 were scheduled for screening.

Colon Cancer
Grady Memorial held two colon cancer screening events in fiscal year 2017 at the hospital and SourcePoint of Delaware County. Patients were registered on-site for screening, and nurses and patient navigators provided colon cancer education and clinical guidance. The SourcePoint event featured a large, inflatable colon that patients could walk through and see how a diseased colon looks compared to a healthy one. The exhibit was well-received and provided a great opportunity to educate and engage the community.

OUTCOMES
- Scheduled 38 patients for screening; of those, 24 required additional diagnostic workup for colorectal cancer.

2017 HIGHLIGHTS
- Opened a new Radiation Oncology Center, including state-of-the-art LINAC technology.
- Welcomed radiation oncologist Andrew Freeman, MD.
- Welcomed medical oncologists Chaoyang Li, MD, and Arun Kumar, MD.
In Ohio, 68,180 new cancer diagnoses and 25,430 cancer deaths are estimated in 2017, according to the American Cancer Society. In Franklin County, the incidence rates for lung, colon, breast and pancreas cancer are higher than national rates. Additionally, people in Franklin County have increased risk factors for cancer, such as obesity, tobacco and alcohol use, low vaccine rates, poverty and lower than national cancer screening rates.

To mitigate these trends, OhioHealth Grant Medical Center makes cancer screening and early detection easily accessible, offering programs to promote early detection for lung, breast, colon, prostate, skin and cervical cancers. Grant also offers a Convenient Care Mammogram Shuttle that brings women who might not otherwise be screened from 33 downtown service locations to the hospital for screening mammograms during their lunch break.

**OUTCOMES**

**Lung Cancer**

- Through the OhioHealth Lung Cancer Screening Program, a multidisciplinary approach to screening for patients who are at higher risk for developing lung cancer, 355 patients received low-dose chest CT scans for lung cancer — 261 initial screenings and 94 annual screenings; of those, 14 required additional diagnostic workup and four lung cancers were diagnosed.
- Every patient screened is referred for tobacco cessation counseling.

**Breast Cancer**

- 4,111 patients received screening mammograms and 1,180 patients received diagnostic mammograms; of those, 127 patients were biopsied and 92 were diagnosed with cancer. Grant’s breast cancer detection rate is 9.3 per 1,000 screenings.
- 469 women working downtown received screening mammograms through the Convenient Care Mammography Shuttle Service; of those, 32 patients required additional diagnostic workup, and of those, two cancers were diagnosed — one Stage I and one Stage II.

**Colon Cancer**

- 2,023 patients received outpatient colonoscopy procedures.
- Achieved adenoma detection rate of 38.6 percent, exceeding the standard of 25 percent (greater than or equal to 25 percent in men over 50 and 15 percent in women over 50) set by the American Society for Gastrointestinal Endoscopy (ASGE) for adequate colonoscopy quality. Of the 2,023 screenings completed, 780 patients were identified with adenomas.
- Rounded on inpatients over age 50 to encourage them to schedule an outpatient colonoscopy.
- Partnered in September 2017 with a local primary care practice to distribute fecal immunochemical (FIT) stool tests as an alternative colon cancer screening method in patients who are not good candidates for or chose not to have a colonoscopy.

**Prostate Cancer**

- Provided 34 prostate specific antigen (PSA) screenings at Grant.
- Provided additional PSA screenings at OhioHealth outpatient centers servicing Grant patients.

**Cervical Cancer**

- Approximately 12,820 cases of cervical cancer are diagnosed each year and 4,210 women will die from the disease, yet the death rate for cervical cancer has declined 50 percent as more women receive Pap tests, according to the American Cancer Society. Women should start having Pap smears at age 21 and continue up to at least age 65, girls should have their HPV vaccine series completed between age 9 and 26.
- Performed 5,407 Pap smears and administered 1,377 HPV vaccines.

**Skin Cancer**

Melanoma is the seventh most common type of cancer in Ohio, according to the American Cancer Society, and the ninth most common cancer seen at Grant. In central Ohio, we also see a large number of high-risk populations for melanoma, including firefighters, golfers and those who work outdoors. Grant regularly hosts skin cancer screening and education events in the community.

- Screened 76 people for melanoma; of those, 47 percent (35 people) required follow-up or a biopsy.
- Of those who participated in education events, 59 percent indicated they knew the “ABCDE” warning signs of melanoma, and 58 percent were confident about performing a self-skin exam.

(continued)
QUALITY IMPROVEMENTS

Stage IV Breast Cancer Study

The U.S. Preventive Services Task Force recommends women age 50 to 74 receive screening mammograms every other year to avoid over-diagnosis of breast cancer and the resulting anxiety induced by an abnormal mammogram. Literature shows, however, that 6 percent to 10 percent of women are diagnosed with Stage IV or metastatic breast cancer. Their average age is 63.8 years old.

Grant investigated the impact of this recommendation, reviewing the charts of 169 patients with Stage IV breast cancer over a past five-year period to determine whether an annual screening would reduce the number of those presenting with late-stage breast cancer. The study showed:

+ 21.3 percent of patients had imaging within two years of diagnosis.
+ 8.2 percent of patients had some type of breast imaging within two to five years of diagnosis, and 71 percent had imaging within five to 10 years of diagnosis.
+ 78.7 percent of patients diagnosed with Stage IV breast cancer were not aware of any family or genetic predisposition for breast cancer.
+ 76.9 percent of patients listed having a primary care physician at the time of diagnosis.

Based on the results of this study, Grant added five new service areas to its Convenient Care Mammography Shuttle and permitted patients to get their screening mammogram without a prescription. In addition, Grant now offers tomosynthesis at the OhioHealth William W. Wilkins Professional Building, located on East State Street across from the hospital’s emergency entrance.

Bowel Prep for Outpatient Colonoscopy Study

Bowel prep for colonoscopy can be unpleasant and confusing because of the number of different methods. To eliminate these barriers to getting a colonoscopy, improve patient satisfaction and compliance, reduce complications, improve effectiveness and cost efficiency, Grant and other OhioHealth care sites worked together to standardize bowel preps for outpatient procedures across the health system. Together, they reduced the variation from 18 different preps to four, including one that was not originally available on the formulary for inpatients. As a result of the study, Suprep was added to the hospital formulary for colorectal preparation for inpatients prior to endoscopy or colorectal surgery.

OhioHealth received a $5,000 grant from the American Cancer Society to offer free bowel preps to those in financial need. The health system also created a system-wide report to help identify inpatients that have not had a screening colonoscopy. At Grant, walk-in access is now available at the hospital’s outpatient clinic to receive the prep and schedule a colonoscopy.

2017 Hero of Hope Award

Grant breast surgeon and breast cancer survivor Deepa Halaharvi, DO, received the 2017 Hero of Hope Award from OhioHealth and the American Cancer Society for her compassion, empathy and support to cancer patients.

From left: Vincent Daniel, MD, thoracic surgeon; Gail Frankiebeiner, DNP, RN, CPHQ, director, Facilities Certification; and 2016 award winner Roger Johnson, RRT, radiation therapist, with Hero of Hope recipients Deepa Halaharvi, DO, breast surgeon, and Kim Gary, RN.

2017 HIGHLIGHTS

+ Increased critical and intermediate care capacity by 34 beds, set for completion in summer 2018.
+ Initiated construction of a 17,000-square-foot family medicine and open-access care center, set to open in fall 2018.
+ Received the 2016 Hospital of the Year Award from Lifeline of Ohio.
+ Received approval for a $6.9 million cancer center, with space for Medical Oncology, pharmacy, an infusion center, PET/CT, ancillary services and multispecialty clinics.
+ Welcomed thoracic surgeon Vincent Daniel, MD, who specializes in robotic thoracic surgery.
+ Implemented a stereotactic body radiation therapy (SBRT) program to better serve and treat early stage, nonsurgical candidate lung cancer patients.

From left: Vincent Daniel, MD, thoracic surgeon; Gail Frankiebeiner, DNP, RN, CPHQ, director, Facilities Certification, and 2016 award winner Roger Johnson, RRT, radiation therapist, with Hero of Hope recipients Deepa Halaharvi, DO, breast surgeon, and Kim Gary, RN.
Melanoma, breast and lung cancer are among the top five cancers in Richland County, according to the Ohio Department of Health Richland County Cancer Profile, with lung disease being the third leading cause of death. The Ohio Department of Health also identified a higher than average incidence rate of melanoma in the region, at 23 to 25.8 cases per 100,000 people. Richland County had a higher proportion (16 percent) of late-stage melanoma, compared to Ohio (8.8 percent) and the United States (7 percent). OhioHealth Mansfield Hospital offers a number of screening events and programs to help address cancer in the region it serves, including a free skin screening event in April 2017.

**OUTCOMES**

**Skin Cancer**
- 66 patients were screened for skin cancer; of those, 70 percent (46) were referred to a dermatologist for follow-up, 41 percent (27) were found to have lesions recommended for biopsy.

**Breast Cancer**
- 5,581 women received screening mammograms; of those, 581 patients were called back for further imaging and 160 patients were biopsied; 100 patients were diagnosed with breast cancer.

**Lung Cancer**
- Through the OhioHealth Lung Cancer Screening Program, a multidisciplinary approach to screening for patients who are at higher risk for developing lung cancer, 292 people received low-dose chest CT scans; of those, four patients were diagnosed — one was Stage 1, two were Stage 2 and one was diagnosed with lung cancer from an unknown primary site.

**QUALITY IMPROVEMENTS**

Planning got underway in fiscal year 2017 for expansion of cancer care services at Mansfield Hospital to address space constraints in the care site’s inpatient unit and infusion clinic. Plans include additional space to accommodate patients, larger waiting areas and more restrooms. The renovation will enhance access to care by preventing treatment delays for infusion patients.

- Increased the number of physicians at Mansfield Hospital certified by MD Anderson Cancer Network® with certification of general surgeon Jeffrey Archer, MD.
- Welcomed medical oncologist Katherine Exten, MD.
Lung cancer, at 17.2 percent of diagnosed cancers, and melanoma, at 4.7 percent, are the first and fifth of the top five cancers in Marion County, according to the Ohio Department of Health. Moreover, 65.9 percent of lung cancers and 14.7 percent of melanoma were diagnosed at late stage — nearly double the Ohio rate of 8 percent and national rate of 7 percent. To help bring down these statistics, OhioHealth Marion General Hospital focused screening on these two cancers in fiscal year 2017.

Lung Cancer
- Through the OhioHealth Lung Cancer Screening Program, a multidisciplinary approach to screening for patients who are at higher risk for developing lung cancer, Marion General provided 166 low-dose CT screenings from January to August 2017. Of those, three patients were diagnosed with lung cancer — two were Stage 1 and one was an extended small-cell lung cancer.

Skin Cancer
- Marion General held two skin cancer screening events in 2017, one in May and another in October.
  - 96 patients were screened for skin cancer; of those, 40 percent (38) were recommended for follow-up and 30 percent (29) were recommended for biopsy. Four patients were diagnosed with skin cancer.

QUALITY IMPROVEMENTS

Expediting treatment of patients diagnosed with lung cancer
The Marion General Cancer Committee implemented a number of changes in fiscal year 2017 so that patients diagnosed with lung cancer could begin treatment more quickly and expeditiously. These include:
- Expanding the position of patient navigator to full-time so that patients can connect more quickly with services they need and receive support throughout treatment and survivorship.
- Providing local access to EBUS-TBNA (endobronchial ultrasound-guided transbronchial needle aspiration). The minimally invasive procedure is more accurate at staging lung cancer and diagnosing mediastinal masses so that more invasive interventions can be avoided and treatment can be individualized to each patient.
- Welcomed pulmonologist Joel Provenzano, MD, to our program.

OUTCOMES
- Decreased the number of days from presentation to diagnosis by 27 percent.
- Decreased the number of days from diagnosis to treatment by 42 percent.
- Decreased the number of days from presentation to treatment by 34 percent.
- Reduced the number of days from presentation to treatment from a baseline of 88 days to 58 days.

Increasing access to mammography
In fiscal year 2017, Marion General increased access to annual screening mammography in a number of ways by:
- Encouraging and enabling self-referrals by no longer requiring a prescription for screening mammography for patients age 40 and older.
- Hiring a full-time patient navigator for patients diagnosed with breast cancer.

OHIOHEALTH MARION GENERAL HOSPITAL

SCREENING

STANDARD 4.2

Lung cancer, at 17.2 percent of diagnosed cancers, and melanoma, at 4.7 percent, are the first and fifth of the top five cancers in Marion County, according to the Ohio Department of Health. Moreover, 65.9 percent of lung cancers and 14.7 percent of melanoma were diagnosed at late stage — nearly double the Ohio rate of 8 percent and national rate of 7 percent. To help bring down these statistics, OhioHealth Marion General Hospital focused screening on these two cancers in fiscal year 2017.
Skin Cancer
The incidence of skin cancer in 2016 was 22.3 per 100,000 in the United States and 20.4 per 100,000 in Ohio, according to the Ohio Department of Health. Counties served by OhioHealth O’Bleness Hospital were high, with Athens County at 16.5, Meigs County at 11.0, Morgan County at 26.5 and Vinton County at 10.6 per 100,000.

To help lower the number of people diagnosed with skin cancer in the region it serves, O’Bleness Hospital held its annual free skin screening event May 19, 2017, screening participants and providing education about the importance of self-exams and sun safety. The event was part of the SPOTme® campaign, sponsored by the American Academy of Dermatology (AAD), and data is reported back to the AAD.

**OUTCOMES**
- 106 skin screenings were performed; of those, 30 were recommended for biopsy and 23 were referred for follow-up.
- 69 people participated in the event, up 65 percent from 2016.

Lung Cancer
Tobacco use is associated with 12 types of cancer and estimated to cause more than 30 percent of all cancer deaths in the United States, including 80 percent of lung cancer deaths among men and women, according to 2017 Ohio Department of Health statistics.

In August 2017, O’Bleness Hospital adopted the OhioHealth curriculum for tobacco cessation so that local tobacco users can have access to new techniques and technologies, such as pulmonary function and carbon monoxide testing, while still receiving the service at no cost. A component of the OhioHealth Lung Cancer Screening Program and facilitated by a certified tobacco treatment specialist, the six-week program emphasizes group support, education and motivation to eliminate the barriers to quitting tobacco. Classes are available to associates and the general public several times throughout the year.

O’Bleness Hospital also joined the Tobacco21 initiative for Athens County, a group that is working to increase the legal age to purchase tobacco to 21.

**OUTCOMES**
- Since the Ohio Health Lung Cancer Screening Program was implemented at O’Bleness Hospital in January 2017, 175 people received low-dose chest CT scans. Of those, zero lung cancers were identified.
- Two tobacco cessation courses were offered in fiscal year 2017, with six people participating; of those, five were interested in quitting tobacco, with one succeeding and one not interested.

Cancer
In addition to providing screening colonoscopies, O’Bleness Hospital continues to work with Ohio University Heritage College of Osteopathic Medicine’s (OU-HCOM) Community Health Program to offer fecal immunochemical (FIT) stool tests as a screening alternative method for colon cancer in patients who are not good candidates for or choose not to have a colonoscopy.

- 104 people received screening colonoscopies; of those, nine patients had abnormal findings, five were diagnosed with colorectal cancer and one was diagnosed with carcinoid syndrome.

Breast Cancer (January to August 2017)
- 2,094 women received screening mammograms; of those, 185 patients received call-backs; 66 patients received positive findings; 22 patients were diagnosed with breast cancer.

Gynecologic Cancer
- 248 people received HPV vaccinations; of those, nine completed the three-step series, 20 completed the two-step series and 218 have started the series.
- 1,794 women received Pap smears.
QUALITY IMPROVEMENTS

STANDARD 4.8

Raising the standard for breast cancer pathology

National Comprehensive Cancer Network (NCCN) and MD Anderson Cancer Center guidelines state that all biopsies of proven or suspected breast cancer specimens for lumpectomies or excisional biopsies must be oriented using ink on six sides (preferred) or margins marked with three sutures or clips. This specimen orientation, according to the NCCN, is necessary to adequately assess margins after surgery.

Baseline data for the period September 2016 to August 2017 was six cases performed with no patients meeting the standard.

To implement the new standard, O’Bleness Hospital developed and provided education to ensure physicians and staff understood the baseline data and made sure supplies were in stock. Since the change was implemented in May 2017, 100 percent of cases have met the NCCN guidelines for specimen orientation.

Involving social services in advance directives for chemotherapy patients

O’Bleness Hospital implemented a new process to ensure advance directives are discussed or completed by new oncology patients starting systemic chemotherapy. Involvement of a team member from social services, who must be notified every time a new oncology patient is starting chemotherapy, is key to the process. The cancer care team received education on the new protocol and expectations that advance directives be completed by the third chemotherapy visit.

Since the new process was implemented in August 2017, two of three patients (67 percent) who started systemic chemotherapy were given the opportunity to discuss advance directives by their third visit. Surveillance for this project continues.

OhioHealth O’Bleness Hospital
(continued from previous page)
The incidence of lung, colon, breast and pancreatic cancers in Franklin County is higher than national averages, according to the Ohio Department of Health Franklin County Cancer Profile, largely because of increases in tobacco use, obesity and alcohol use. To support the need for screening programs in Franklin County, OhioHealth Riverside Methodist Hospital provides comprehensive breast services, including mobile mammography, lung cancer screenings and tobacco cessation, colonoscopy screenings, and screenings for prostate and cervical cancer.

**OUTCOMES**
From January through June 2017, Riverside Methodist reported more than 1,000 new cases of cancer.

**Colorectal Cancer**
The colorectal cancer rates among adults age 20 to 54 has been on the rise since the mid-2000s, according to the American Cancer Society (ACS), yet this type cancer is one of the most preventable with screening.

+ 1,275 colonoscopies were performed through physician and self-referral; of those, 65 patients were diagnosed with colorectal cancer from January through March 2017.

**Breast Cancer**
Breast screenings are essential to early detection, more successful treatment and positive outcomes. From the time of initial screening mammography to final pathology, OhioHealth has established a benchmark of within eight days, outperforming the national average of 18 days. Riverside Methodist also offers a screening program for people at high risk for breast cancer, mobile mammography for those in underserved areas, and genetic counseling.

+ 4,510 screening mammograms were performed from January through June 2017; of those, 323 patients received additional testing, 69 were biopsied and 22 were diagnosed with breast cancer.
+ Through the mobile mammography unit, 1,269 screening mammograms were performed; of those, 128 received additional testing, 21 were biopsied and four were diagnosed with breast cancer.

**Lung Cancer**
More men and women in the United States die of lung cancer than any other cancer, according to the American Cancer Society, yet more than 400,000 people diagnosed with lung cancer are living today.

+ Through the OhioHealth Lung Cancer Screening Program, a multidisciplinary approach to lung cancer screening and prevention, 171 patients received low-dose chest CT scans from January through June 2017; of those, 12.2 percent required additional testing and two patients were diagnosed with lung cancer.
+ Every patient scanned is offered tobacco cessation and support from a patient navigator.

**Skin Cancer**
Riverside Methodist hosted one skin cancer screening event. While skin cancer is not among the most common cancers seen at Riverside Methodist, the hospital has identified a general community need for additional screenings across Franklin County.

+ Screened 24 people for melanoma; of those, 70 percent required follow-up and/or a biopsy (17 patients seen).

**Prostate Cancer**
Prostate cancer is the second most common cancer and the second leading cause of cancer death in men in the United States, yet 2.5 million are prostate cancer survivors.

+ 4,249 men in Franklin County received PSA screenings; of those, 91 were diagnosed with prostate cancer from January through March.

---

(continued)
QUALITY IMPROVEMENTS  

Standard 4.8

Improving patient and nurse satisfaction in the Infusion Center

Standard priming volume of tubing used to administer chemotherapy and biotherapy at OhioHealth is 27 mL. After an infusion is complete, the majority of medication remains in the tubing and winds up disposed as a hazardous waste. For some medications, the amount wasted is greater than half of the prescribed dose. Nurses in the infusion center at Riverside Methodist saw an opportunity to minimize this waste and, in the process, improve patient and staff satisfaction.

Working with pharmacy, they evaluated and trialed tubing with a smaller priming volume of 15 mL, finding it not only decreased the amount of hazardous waste generated, it also increased the amount of prescribed medication the patient receives. In addition, infusion nurses are now using an ultrasound-guided intravenous IV insertion device with medications that can irritate the vein. Use of the device has minimized the number of insertion attempts a patient may have to withstand, and decreased the need for assistance by an IV specialist to insert a peripheral IV catheter or schedule a PICC insertion, reducing delays and risk of infection.

Avoiding malnourishment of head and neck cancer patients

Head and neck cancer (cancer of the oral cavity, oropharynx, hypopharynx and larynx) is the seventh leading cancer in the world. Patients are often malnourished at the time of diagnosis, and treatment can exacerbate the problem, causing such issues as anorexia, nausea, vomiting, dysphagia, fatigue and dehydration, all of which can lead to acute kidney injury. In addition, complications associated with nutrition can persist months and even years after treatment is complete. Patients are not consistently seen before treatment, at regularly scheduled intervals or at the completion of treatment.

To address the issue, Riverside Methodist defined and standardized a process for dietary consults by:

1. Increasing the availability of an oncology dietitian, who provides intense nutritional counseling to help prevent and manage nutritional complications resulting from the disease and treatment.
2. Developing a referral process that ensures all head and neck patients are screened by patient navigators.
3. Increasing physician interaction with dietitians, navigators and patients regarding their ongoing treatment.

2017 HIGHLIGHTS

- Expanded the pharmacy at OhioHealth Arthur G.H. Bing, MD, Cancer Center.
- Successfully implemented the first Survivorship Clinic pilot.
- Implemented a monthly education series for infusion nurses to improve patient safety and quality. The average post-test score for competency was 95 percent or better.
- Achieved a 23 percent research accrual, exceeding the American College of Surgeons Commission on Cancer commendation level of 8 percent and recommendation level of 6 percent.
- Expanded Integrative Care services for patients and caregivers with an upgraded patient resource center, cooking demonstrations for cancer-fighting foods, and support groups that combine art therapy and mind-body therapy.
- Completed a falls study to improve safety of cancer patients receiving rehabilitation.
- Implemented Alaris™ EMR, making radiation oncology treatment information available to the cancer care team.
WE are a faith-based not-for-profit, family of leading healthcare providers sharing an unwavering commitment to deliver quality, convenient and timely healthcare to all members of the community, regardless of their ability to pay. Our hospitals regularly receive national recognition for excellence in clinical quality, patient safety and technological innovation.