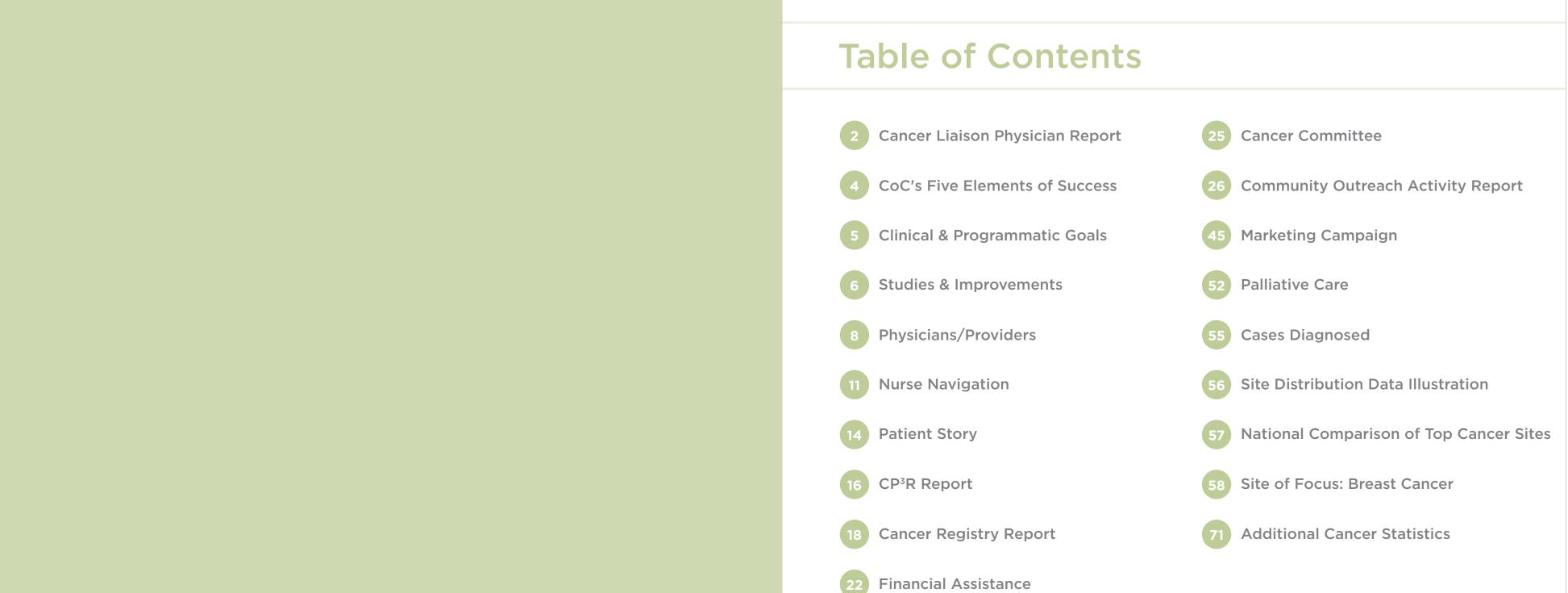


ANNUAL REPORT



### Cancer Liaison Physician Report



# **Commitment to Community**

It is with great pleasure that we present the 2019 Holzer Health System Annual Report of cancer activities and programs. This report includes a summary of the advancements accomplished from all entities of the cancer center.

Since 1937, Holzer has been accredited with the Commission on Cancer (CoC), a quality program of the American College of Surgeons, the only national accreditation program that recognizes cancer centers for their commitment to providing comprehensive, high-quality, and multidisciplinary patientcentered care. This accreditation ensures that our cancer program provides comprehensive care from a knowledgeable, committed staff with superior services and state-of-the-art technology.

### **ACoS-CoC** Cancer Liaison Physician

Alice

General Surgerv

Dachowski

MD, FACS



Holzer's successful CoC accreditation is possible through the Holzer Cancer Committee, a diverse group of highly trained physicians and staff dedicated to continually improving our cancer

program.

community

We are very pleased to announce another successful Commission on Cancer Accreditation Survey this year, with an accreditation status for 3 years. A total of four commendation standards were recognized. These four commendation standards included Clinical Research Accrual reporting, Public Reporting of Outcomes, Rapid Quality Reporting System Participation, and Data Submission/Accuracy of Data.

Throughout 2019, the staff of the cancer center made noteworthy accomplishments toward improving the health and wellness of our

# Accomplishments

- Community cancer screenings
- Enhancing quality care and refining processes to improve our patients' experience
- Striving to increase clinical research
- Survivorship support group to focus on enduring the well-being of survivors and their families
- Providing palliative care to patients
- Providing educational opportunities to physicians

We look forward to the future as Holzer Center for Cancer Care continues to focus on proficiency, compassion, and program development. Friendly Visits, Excellent Care; Every Patient, Every Time.

### CoC's Five Elements of Success

**The Holzer Center** for Cancer Care's commitment to improving care models the CoC's five elements of success.

> The clinical services provide state-ofthe-art pretreatment evaluation, staging, treatment, and clinical follow-up for cancer patients seen at the facility for primary, secondary, tertiary, or end-oflife care.

The cancer committee leads the program through setting goals, monitoring activity, evaluating patient outcomes, and improving care.

The cancer conferences provide a forum for patient consultation and contribute to physician education.

The cancer committee leads the program through setting goals, monitoring activity, evaluating patient outcomes, and improving care.

The cancer committee leads the program through setting goals, monitoring activity, evaluating patient outcomes, and improving care.

(Measurable) Identify projected increase that would occur with new hires.

(Relevant) This will offer variety of locations within Holzer Health System to keep patients within the system.

end of 2019.

GOALS >> Specific clinical and programmatic goals were established by the Cancer Committee in order to improve our cancer program.

### **2019 Clinical Goal**

(Specific) Improve provider recruitment to provide additional oncology providers to increase access and enhance care to cancer patients in 2019.

(Achievable) Collaboration with physician recruitment department and provider relations.

(Time-Based) Projected completion date:

### **2019 Programmatic Goal**

(Specific) Implementation of a case management program to improve the delivery of comprehensive holistic care to cancer patients from diagnosis through survivorship.

(Measurable) Numerically measure increase in patient visits.

(Achievable) Administrative approval; Budget for increase in staff as well as budget for on-call pay.

(Relevant) This will provide continued quality care/ support and keep migration in.

(Time-Based) Projected completion date: end of 2019.

# HPV vaccination status in relation to head and neck cancer.

Due to the increase in head and neck cancer, these cases were studied and reviewed to identify common factors among the patients. Distinguishing common denominators will assist primary care physicians to increase prevention for head and neck cancer patients.

### **Recommendations for Improvement**

- Increase Tobacco and Alcohol counseling, education and cessation intervention/referral.
- Improve documentation regarding oral care and other risk factors
- Education Primary Care on risk factors, documentation of assessment and risk factors (including sexual history and high risk behaviors) education/counseling, referrals where appropriate, and HPV vaccination
- Continue to have community-based free head and neck screenings
- Monitor HPV vaccination rates

### Advanced (Stage IV) Lung Cancer at Diagnosis.

Due to the majority of lung cancer patients being Stage IV at diagnosis, these cases were studied and reviewed to identify risk factors to raise awareness for earlier lung cancer screening.

### **Recommendations for Improvement**

- Increase Tobacco and Alcohol counseling, education and cessation intervention/referral.
- Improve documentation regarding risk factors, especially environmental
- Educate Primary Care Providers on risk factors, documentation of assessment and risk factors, and use of the Electronic Medical Record
- Improve specific tobacco documentation for better identification of possible candidates for Low-Dose CT Screening
- Monitor tobacco cessation intervention rates

### Physicians / Providers





Our oncologists treat all major adult cancers and hematological disorders. The Medical Oncologists are proficient in the delivery of routine intravenous chemotherapy and oral chemotherapies, as well as having extensive knowledge in immunotherapy, targeted therapies, and combined chemotherapy and radiation. Our radiation oncologist is competent in the delivery of stereotactic radiation surgery, and works closely with a dosimetrist and medical physicist in order to provide precise radiation therapy. All oncologists also refer qualifying patients for clinical trials to optimize care and treatments.







### Divya Arora, MD | Radiation Oncology

MEDICAL EDUCATION

» University of South Florida College of Medicine, Morsani College of Medicine - Tampa, Florida

RESIDENCY

» Radiation Oncology: Baylor Scott and White, Texas A&M - Temple, Texas

#### BOARD CERTIFICATION

» American Board of Radiology, Radiation Oncology - Specialty

### Khawaja Hamid, MD | Hematology / Oncology

MEDICAL EDUCATION » Sind Medical College - Karachi, Pakistan

RESIDENCY

» St. Vincent's Medical Center - Bridgeport, Connecticut » St. Elizabeth's Hospital - Utica, New York

FELLOWSHIP *» Medical Oncology*: Providence Medical Center - Southfield, Michigan

#### BOARD CERTIFICATION

- » American Board of Internal Medicine
- » American Board of Medical Oncology
- » American Board of Medical Specialties

### Wendi Hanna, C-FNP | Cancer Care

MEDICAL EDUCATION » Master of Science in Nursing: Kaplan University

BOARD CERTIFICATION » American Nurses Credentialing Center



### Alice Dachowski, MD | General Surgery

ACoS-CoC Cancer Liaison Physician

MEDICAL EDUCATION » Washington University School of Medicine - St. Louis, Missouri

RESIDENCY » University of Cincinnati Medical Center - Cincinnati, Ohio

INTERNSHIP » University of Cincinnati Medical Center - Cincinnati, Ohio

BOARD CERTIFICATION

- » American Board of Surgery
- » National Board of Medical Examiners
- » American College of Surgeons



### Subhash Khosla, MD | Radiation Oncology

MEDICAL EDUCATION

» Lady Hardinge Medical School, University of Delhi - New Delhi, India

RESIDENCY

» Grant Hospital, Rush Presbyterian, St. Luke Hospital - Chicago, Illinois

BOARD CERTIFICATION » American Board of Radiology



Patient navigators are trained, culturally sensitive healthcare workers who provide support and guidance throughout the cancer care continuum. They help people "navigate" through the maze of doctors' offices, clinics, hospitals, outpatient centers, insurance and payment systems, patient-support organizations, and other components of the health care system. Services are designed to support timely delivery of quality standard cancer care and ensure that patients, survivors, and families are satisfied with their encounters with the cancer care system.



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### Nurse Navigation

### Referrals

### A. Provides Access to Resources and Assesses Patients' Current and Future Needs, and **Financial Referrals**

- Makes referrals for services based on patient/family needs - education, finances, psychosocial, survivorship, transportation, child care, lodging.
- Assesses for and assists with patient/family resources.
- Facilitates access to physicians and services.
- Assists with education, including disease state and treatment.
- Assesses for and mitigates barriers to care.
- Assists patients with access concerns (for screening, diagnosis, or treatment) and assists with paperwork and addressing access barriers as indicated.

- Facilitates appropriate medical record availability at scheduled appointments as needed.
- Facilitates transportation, lodging, and/or child/elder care and addresses any other practical needs.
- Facilitates linkages to follow-up services.
- Facilitates access to clinical trials.
- Creates and reviews Survivorship Care Plan with patients.



### B. Coordination of Patient Care (coordinating/facilitating appointments)

- Coordinates patient care from diagnosis through survivorship or palliative care/hospice.
- Assists with coordinating appointments.
- Meets with patient by phone or in person prior to, during, and after treatment.
- Facilitates timely coordination of services between diagnosis and treatment.

- Provides telephone traige services (e.g., symptom management, emotional support, education, resource referral) for patients/families
- Coordinates appointments for diagnostic testing, services, and with providers to ensure timely delivery of diagnostic and treatment services, providing clarification and literacylevel-appropriate education related to the visit.



### Collaboration

### A. Develops Physician/Cancer Care Team Relationships

- Facilitates communication between cancer care disciplines.
- Communicates and collaborates with involved physicians and staff members to facilitate individualized, holistic patient care plan.
- Maintains communication with patients, survivors, families, and the health care providers to monitor patient satisfaction with the cancer care experience.
- Ensures that navigator functions are meeting physician expectations and that navigator activities remain within scope of defined role.

### **Tracking & Documentation**

A. Tracks Metrics, Quality Indicators; Documents Patient Interactions, Progression

- Ensure timely documentation of all patient interactions into navigation tracking and documentation system(s).
- Assists with tracking, documentation and outcome reporting for navigation services.
- Assists with ongoing navigation program assessment and identification of process improvement opportunities.
- Assists with annual CoC Standard 3.1 activities related to community needs assessment and resulting program modifications related to needs; assists with program reporting to the Cancer Committee.

### Education

A. Provides Patient Education, Provides Symptom Management Support

- Discusses physician visits with patients and families and answer questions.
- Empowers patients with education and knowledge to help improve patient outcomes and satisfaction.
- Provides and reinforces education, treatment, care plan, symptom management and survivorship concerns.

### B. Community Outreach

- Conducts health promotion and awareness programs in community as appropriate.
- Provides community education presentations as appropriate.

### **Patient Story**

# Mike Conkle Shares His **Cancer Treatment Journey**

"When you receive the news that you have cancer, you fell like your world is crumbling. To have this level of care here is amazing. We are so fortunate to have Holzer Center for Cancer Care and its wonderful team of care providers."

CONKLE FA INT RACING

"I am fortunate to have received such wonderful care at Holzer Center for Cancer Care," shared Mike Conkle, recent Holzer patient.

In February 2019, Conkle was diagnosed with prostate cancer. His provider, Dr. Nicolette Jones, Holzer Urology, referred him to a specialist. He met with Dr. Divya Arora, Radiation Oncologist, Holzer Center for Cancer Care, to discuss treatment options. There he learned about Holzer's TrueBeam system, the latest in non-invasive radiation treatment from Varian Medical Systems.

"Dr. Arora and her staff were very professional," he shared. "I have no complaints. They took time for any questions, always asked how I was doing, and made me feel comfortable. I was treated like family and greeted every time with a smile. They were wonderful to me and my family. It means the world to me to feel this level of confidence in my healthcare providers."

TrueBeam is a powerful cancer treatment that eliminates cancer cells with increased precision and accuracy while sparing healthy tissue. TrueBeam introduces new possibilities for the treatment of cancers in the lung, breast, prostate, brain, head and neck, and more. With enhanced delivery of radiation, TrueBeam can personalize each patient's cancer treatment.

Best of all, this machine offers state-of-the-art Stereotactic Body Radiation (SBRT) and Radiosurgery (SRS) treatments, delivering pinpoint radiation. These treatments are similar to surgery but without cutting or hospital recovery time. Patients can now receive the best and fastest cancer treatment close to home.

Conkle finished his treatments in June.

"When you receive the news that you have cancer, you feel like your world is crumbling. To have this level of care here is amazing. We are so fortunate to have Holzer Center for Cancer Care and its wonderful team of care providers. It was awesome to receive care this close to home."

Conkle is an active Cheshire Township Trustee, where he has served for the past 42 years, and retired from Gavin Power Plant and MPW Industrial. He and his wife, Deborah, reside in Cheshire and have three grown children: Michelle (Rob) Gilmore, Heather (Joey) Edwards, and Michael (Melissa) Conkle, and eight grandchildren. He enjoys racing, participating in outdoor activities (hunting/fishing/etc), and spending time with his family, especially watching his grandchildren in various sports activities.

Holzer Center for Cancer Care (HCCC) is dedicated to providing state-of-the-art treatment for all cancer sites with gentle, competent, and individualized care. Medical oncology services include an infusion area for chemotherapy with 12 bays and 2 private bays for treatment. Radiation Oncology services are provided with advance technology in a relaxed and friendly setting.

For more information call 1-855-4-HOLZER or visit www.holzer.org

### CP<sup>3</sup>R: Cancer Program Profile Reports

truebeam

# Quality Measures for Lung, Breast, and Colon Cancers

The Commission on Cancer (CoC) tracks each case submitted by our hospital. Those cases that meet the criteria for the described measures are reviewed to ensure quality treatment is met. With the new rapid quality reporting system, cases are sent to the CoC on a monthly basis, with results of the measures given each month. This proactive system confirms that the most valuable treatment is being given on a timely basis.

- ---

Dr. Dryge Arora, MD Redation Decompy

### Co

CoC Measure	Standard to Meet	HCCC Rate
<b>LUNG</b> Systemic chemotherapy is administered within 4 months to day preoperatively or day of surgery to 6 months postoperatively, or it is recommended for surgically resected cases with pathologic lymph node-positive (pN1) and (pN2) NSCLC (Quality Improvement)	85%	100%
<b>BREAST</b> Radiation is administered within 1 year (365 days) of diagnosis for women under the age of 70 receiving breast conservation surgery for breast cancer (Accountability)	90%	100%
Radiation therapy is recommended or administered following any mastectomy within 1 year (365 days) of diagnosis of breast cancer for women with > = 4 positive regional lymph nodes (Accountability)	90%	100%
Tamoxifen or third generation aromatase inhibitor is recommended or administered within 1 year (365 days) of diagnosis for women with AJCC T1c or stage IB-III hormone receptor positive breast cancer (Accountability)	90%	95.2%
<b>COLON</b> Adjuvant chemotherapy is recommended, or administered within 4 months (120 days) of diagnosis for patients under the age of 80 with AJCC stage III (lymph node positive) colon cancer (Accountability)	Not Applicable	100%

### Cancer Registry Report



Cancer is a reportable disease in every state in the United States. For every patient diagnosed with this disease, all physicians, dentists, laboratories, and other health care providers must collect, process, and report each malignant case through a certified tumor registrar (CTR). The Holzer Center for Cancer Care CTR operates under the direction and guidance of Holzer's Cancer Committee.

### Oncology Quality/ Data Specialist



Sarah Ramsburg CTR

### What is the Cancer Registry used for?

Cancer Registry data is used by the Department of Health, county and local health departments, patient and public interest groups, researchers, and the public for health planning and evaluation, as well as for research, incidence patterns, and trends for southeast Ohio.

The Cancer Registry plays an important role in research to identify the causes of cancer. Researchers often use the data collected by the registry to identify higher incidences of cancer with specific exposures and/or particular geographical areas.

# How does the registry protect privacy?

All information reported to the Ohio Department of Health and the National Cancer Data Base is confidential and strict procedures are enforced to protect patient privacy. For all records sent to the state and national organizations, all patient indicators have been removed.

### What is a cancer conference?

HCCC offers a cancer conference each month at Holzer Health System, allowing multidisciplinary physicians to determine the most effective care for the most challenging cancer cases, as well as providing education for all in attendance. It is monitored by one of our clinical pathologists and Cancer Conference Coordinator, Dr. Sohail Qayyum, to ensure these conferences meet the CoC goals. All in attendance receive 1 CME for each conference.

# What information is collected about patients with cancer?

The cancer registry collects data on the demographics, anatomic sites and sizes of tumors, the stages at diagnosis, the cell types of cancer, treatment information, and annual follow up. All malignant cancers are reported except Squamous and Basal Cell Carcinomas and in situ malignant tumors from the cervix, prostate, vulva, vagina, and anus. All brain and nervous system tumors are also collected, even those that are benign.

### How long has Holzer's Cancer Registry been collecting and reporting cancer data?

Holzer Center for Cancer Care has been accredited with the CoC every three-year survey cycle since 1937 and the registry has 12,600 cases on file. Holzer Medical Center established the cancer registry in 1977 and has been collecting all required data since that time.

### **Cancer Registry Responsibilities**

- A. The Cancer Registrar's responsibilities are as follows:
- Identifies all patients having the diagnosis and/or treatment of cancer within Holzer Health System and enters each case into the cancer software system.
- Assigns codes for cancer diagnoses utilizing ICD-9, ICD-10, and ICD-O coding and enters diagnostic, demographic, and registry data into the cancer registry software program.
- Prepares the agenda and records minutes for the monthly Tumor Board conferences and quarterly Cancer Committee meetings.
- Performs TNM staging classifications.

- Compiles registry reports utilizing the hospital's database and national and state statistics.
- Provides patient care evaluation studies each year and presents to the Committee.
- Assists oncology leadership in the development, measurement, and reporting of quality cancer data.
- Participates in educational events annually to maintain certification status, including attendance at regional and national conferences.
- Follows cancer patients treated at HCCC for their lifetime.

B. Other aspects of this position include duties as the Quality/Data Specialist, such as:

- Coordination and management of the Cancer Committee meetings, including review of the 34 CoC standards for accreditation.
- Working closely with all 6 CoC coordinators to originate and implement services and write annual summaries.
- Submission and maintenance of all documentation for the CoC and upload of completed information.
- Performing research studies, workload statistics, and projects, including solution proposals and actions for resolution.

- Identifying methods of utilizing registry data through patient care evaluation audits and special research studies.
- Assistance in the development of the annual reports.
- Responsible for all aspects of maintaining the system's oncology program in compliance with the CoC.
- Participating in marketing initiatives, including cancer prevention programs, screenings, and wellness fairs.
- Advising Cancer Committee on changes in cancer patient population, referral patterns, trends in treatment modalities, evaluation of patient care, and other topics of interest to the Committee.

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# Follow-Up Rates for 2019

	Since 2001	The Last 5 Years
Total New Patients in the Registry (Analytic Cases)	3832	1317
Less Deceased	2221	512
Number Living	1611	805
Patients Lost to Follow-Up	322	98
Percentage of Successful Follow-Up Rate	At Least 80%	At Least 90%
Holzer Rate as of December 31, 2019	91.60%	92.56%

The Commission on Cancer requires that registrars follow all cancer patients in their registry that have received first-course treatment for their lifetime. This information assists physicians when accessing patients who may return for check-ups, aids in early identification of recurrences, and helps to determine treatment. The overall successful follow-up rate since 2001 at Holzer Center for Cancer Care for 2019 was 91.60% (required minimum is 80%). The successful follow-up rate for the last 5 years was 92.56% (required minimum is 90%).

### **Financial Assistance**

100000 URANCECU Medical Billing Statement Admission Date : August 14,2016 Discharge date : Aug vice Date

In addition to facing physical suffering of cancer treatment, these procedures can also present serious financial difficulties for patients and their families, even for those with health insurance.



With the costs of cancer care clearly increasing and cancer patients now living longer than ever before, many insurance companies transfer more and more of the costs to the patients. These additional burdens can have negative effects on healing, both mentally and physically.

Today there are many support services available for patients with cancer. However, the majority of patients and even the healthcare providers are unaware of these services. To help patients pay for their cancer care, many drug companies, as well as nonprofit organizations and foundations, have developed financial assistance programs to offset the high cost of cancer care for patients. These financial assistance programs are designed specifically to help patients pay for medications,

medical bills, and other expenses related to cancer care, such as travel to a cancer facility and hotel stays during treatment.

Eligible patients are assisted in finding alternate funding to ease this financial burden prior to a patient starting cancer treatment. The revenue cycle specialist verifies insurance benefits and determines an estimated out-of-pocket cost for the planned cancer treatment. Based on the diagnosis and medications ordered, available assistance programs, grants, or foundations that the patient would qualify for are found, and assistance is provided for the application process. Once approved, HCCC will continue to work with the programs to ensure payment is received for each treatment, taking a huge financial burden off of our patients.



Our strongest asset at Holzer Center for Cancer Care is our staff. Our specialists blend their expertise together to provide a unified approach to optimal treatment and provide the very best comprehensive cancer care available anywhere.

Alice Dad

Steven C

Khawaja

Divya Aro

Sohail Qa

Sarah Ha

Sarah Ra

Amity Wa

MarJean

Michelle

Teresa St

Stella Bai

Fred Will

Jared Ve

# **Cancer Committee**

	MEMBER STATUS	DEPARTMENT	
achowski, MD	Appointee	Surgery/Committee Chair/CLP	
Conley, MD	Appointee	Diagnostic Radiology	
a Hamid, MD	Appointee	Medical Oncology	
arora, MD	Appointee	Radiation Oncology	
Qayyum, MD	Appointee	Pathology/Cancer Conference Coordinator	
larrigan, MSN, MA, RN, OCN	Appointee	Cancer Program Administrator	
amsburg, CTR	Appointee	Tumor Registrar/Registry Quality Coordinator	
Wamsley, RN	Appointee	Clinical Research Coordinator/Genetics Assistant/ Navigator/Nursing Clinical Coordinator	
n Kennedy, MBA, PCM	Appointee	Community Wellness/Community Outreach Coordinator	
e Rankin, MSN, RN	Appointee	Quality Improvement/Management Coordinator	
Stewart, RN, CHPN	Appointee	Palliative Care Nurse/Psychological Services Coordinator	
arrett, OTR/L	Additional Member	Rehabilitation	
illiams, PhD	Additional Member	Pastoral Care	
/ernon, RPh	Additional Member	Pharmacy	

### Community Outreach Activity Report



As a Commission on Cancer accredited facility, the Holzer Center for Cancer Care is committed to community outreach and support services for cancer care. Community outreach services increase the public awareness of prevention activities, promote the benefits of early detection and encourage participation in screening programs.

Assessment results of the seven-county area studied indicate that access to care, substance abuse and mental health, access to opportunities for recreation and fitness, health promotion and chronic disease prevention, and maternal and infant health are the region's most important health issues leading to chronic disease states including increased incidence of cancer.

EVENT Buckeye R Wellston C Heart Mon Knit-A-Tho YMCA Jac Torski/Hop Good New Orthopedi Hug Your I Red Dress Southern H Heart Mon

## **Population Health Screenings & Outreach Events**

Holzer Health System, a not-for-profit entity, conducts a comprehensive Community Health Needs Assessment (CHNA) and Implementation Strategy in cooperation with local health departments and regional health partners every three years. Holzer completed its most recent assessment on June 30, 2019, and subsequent implementation strategy on October 23, 2019.

The Cancer Committee is actively participating in the implementation plan for the 2019 Community Health Needs Assessment.

	DATE
Rural Electric Company Health Fair	1/21
City Schools Employee Health Fair	1/28
nth Kickoff (Blessing/Lunch) at HMC-G	2/1
on & Screenings for Heart Month - Artisan Shoppe	2/2
ckson Sober Bowl	2/3
pewell Dinner @ Cutlers	2/4
vs Baptist Church Health Fair	2/8
ics Seminar - Dr. Cox - Athens	1/12
Heart - YMCA - Jackson	2/14
Heart Event	2/21
High School Career Fair - Racine	2/22
nth Luncheon with Dr. Chandra - HMC-J	2/25

EVENT	DATE
South Gallia Health Fair - ESC	2/28
Gallia Academy Middle School Career Fair	3/8
Cable Channel 15 - Dr. Scurti	3/8
River Valley Career Fair	3/11
Discover Applachia Travel Expo - GAMS	3/16
Colon Cancer Awareness Event - Dr. Torski	3/18
URG Nursing Students/Vinton Co. School Health Fair	3/19
Carlton School Health Fair	3/20
Spring Showcase - Jackson	3/22
Mason Co. Chamber Luncheon - Cancer Center Presentation	3/26

Events continued on page

EVENT	DATE
Jackson (Pattonsville Rd) Open House Event - ASC Only	3/27
Athens Live Healthy Appalachia Hike - Dr. Cox	3/30
Wound Care Center Gallipolis - Groundbreaking	4/4
Out of the Darkness Walk - URG	4/6
Walk With a Doc - Dr. Quach	4/13
Buckeye Hills Expo	4/13
Kidsfest - Athens	4/13
Science Awards	4/15
Cable Channel 15 - Norma Ellcessor (Surgery)	4/19
URG "Get Carried Away" Health Fair	4/25
Birth Circle Event - Athens	4/27
Joint Replacement Seminar - Jackson	4/30
Vinton School Physicals	5/2
Cable Ch. 15 - Dr. Bentley (Cancer Screening Event)	5/9
Walk With a Doc - Dr. Bryant	5/11
Lawrence County Senior Citizens Event	5/14
John Boy Radio Show with Dr. Bentley	5/14
Rocky Boots Health Fair	5/17
Skin Cancer Screening - Jackson	5/18
Mela-no-more 5k Melanoma Run - Athens	5/18
Gallipolis in Lights - Glow Run	5/18
Jackson Sports Physicals	5/23
Moms EveryDay WSAZ - Swing Bed	5/28
Ohio Valley Bank - Main - Health Fair	5/30
Ohio Valley Bank - Wellston	6/4
General Mills Annual Health Fair	6/5
Walk with a Doc - Dr. Efaw	6/8
ESC - Healthy Eating and Exercise / GAHS and Gallia Co Local	6/10
Ohio Valley Bank - South Point	6/12
Ohio Valley Bank - Mt. Sterling and New Holland Banks	6/13

EVENT	DATE
Superior Marine Health Fair - South Point	6/24
ESC - Healthy Eating & Exercise GAHS and Gallia Co Local School	6/24
Superior Marine - Charleston, West Virginia	6/26
River Rec 4th of July Parade	7/3
County Fairs (Gallia, Meigs, Mason, Jackson, Athens)	July-Aug. 2019
Camp Courage	7/12
Pediatrics Back to School Bash - Gallipolis	7/13
Meigs Co. Commissioners Health Fair - Farmers Bank	7/16
Hike It Out - Athens Physical Therapy	7/20
Hoop Project	7/20 - 21
Occupational Medicine BAC - Gallipolis	7/25
Pediatrics Back to School Bash & Open House - Jackson	7/27
Pediatrics Back to School Bash - Meigs	8/3
Federal Hocking (Coolville) Project Kickoff - Donation	8/3
Athens 16th Annual Safety and Wellness Fair	8/7
CHNA/CHA Regional Planning Session No. 1	8/8
Ohio Valley Bank - Jackson Office - Health Fair	8/9
Boogie on the Bricks - Athens	8/10
Walk With a Doc - Dr. Kelly Roush	8/10
Gallia County Health Department - Healthy Kickstart Event	8/10
Buckeye Rural Electric Annual Meeting	8/10
CPR Committee Meeting	8/12
Hospice Car Show	8/17
Alexander School District - Elementary Orientation	8/19
Ohio Valley Bank - Pomeroy Branch - Health Fair	8/19
Alexander School District - High School Orientation	8/20
WSAZ Moms EveryDay (Therapy Services - Stella Barrett)	8/22
Annual Sports Med Coaches Luncheon	8/24
WSAZ Moms EveryDay (Audiology - Kristin Stump)	8/27
CHNA/CHA Regional Planning Meeting No. 2	8/28

WSAZ Mo
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BBQ Fest
Apple Fes
WSAZ Mo
Girl Scout
Apple Fes
Rocky Boo
Survivor's
Rocky Boo
Kyger Cre
Jenkins Nu
Walk With
River Rat I
More than
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Gallia Cou
Cancer Ce

EVENT

	DATE
ms Everyday (Plastics - Dr. Triggs)	9/3
Dhillco Festival	9/3-7
Advisory Council Meeting Jackson	9/5
nty Cancer Event Rutland Civic Center	9/8
nt Health Fair - Mountaineer - Kyger - Amos	9/11
a Doc	9/14
- Gallipolis	9/14
tival	9/17
ms EveryDay (Pediatrics - Dr. Davis)	9/18
s of America Holzer event	9/19
tival 5K (VIP Sponsor)	9/21
ots Flu Shots - Community Wellness (Nelsonville)	9/25
Picnic	9/27
ots Flu Shots - Community Wellness (Haydenville)	10/2
ek Electric Co. Health Fair	10/3
ursing Home Employees - Health Fair	10/4
a Doc - Build-A-Buddy Pediatric Event	10/5
Festival	10/5
Pink Event - Athens	10/6
lative Town Hall - HMC-G	10/11
nty Senior Citizens Dinner	10/14
nter Health Fair	10/15

Piketon Health Fair 10/16	
Jackson City Schools - Welloween Health Fair event 10/17	
Health Screening Event - Cancer Center 10/15	
Respiratory Symposium 10/18	
Oak Hill School District Employees Health Fair     10/18	
University of Rio Grande - Intergenerational Event 10/18	
Wound Care Center Ribbon Cutting Ceremony         10/21	
Rocky Boots Flu Shots - Community Wellness (Airport Marriott) 10/21	
Athens Lowes Kids' Safety Day 10/26	
Drug Take Back Day in collaboration with Gallia County Sheriff's Department 10/26	
Cable Channel 15 - Dr. Triggs 10/29	
General Mills Visit - Dr. Cox 10/29	
Athens Open House 11/7	
WSAZ Segment on Studio 3 (Post-Acute Care) 11/11	
Ohio Public Health Improvement eXchange Presentation 11/20	
Illumination of Hope - Cancer Tree Lighting 11/26	
WSAZ Moms EveryDay (Dr. Bishop) 12/11	
Wellston City Schools Health Fair12/11	

# The Ohio State University/Holzer **Collaboration Research Study**

### **Colorectal Screening Study**

Using Audio and Video Brochures in a Mail-Based FIT **Outreach Intervention** 

Funded by the NIH National Institute on Aging. Dr. Mira Katz is the lead investigator. Participation with two healthcare systems.

- Holzer:



### A. First Year Activities to Develop the Program (2019):

- 1. Conducting focus groups/interviews with community members:
- a) 50-64 years old
- b) live in an Appalachian County
- c) average-risk for CRC (no history of CRC, polyps,
- inflammatory bowel disease, family history of CRC or
- hereditary CRC syndromes),
- d) read and speak English, and
- e) provide consent

- 2. Conduct focus groups with healthcare providers (individuals who order CRC screening tests on average-risk adults).
- 3. Having program development sessions with community members and recording the audio and video components; and
- 4. Conducting review sessions with community members and healthcare providers.

- Identification of financial person for contact about invoicing OSU.
- Identification of what primary clinics to hang flyers about the community member focus groups in the clinics and where to hang flyers (April - May)
- Help arrange for focus groups with healthcare professionals (April - May) and a review of the developed materials (estimation: August - October 2019)

- Help arrange for space to conduct focus groups and development sessions
- Identify what FIT used in healthcare system and process for completed test return

### B. Second Year Activities: Pilot Study of 160 Adults (2020):

- Identification of 100 potential participants (50 men and 50 women) for the pilot study: same criteria listed for focus groups and not within CRC screening guidelines.
- Notification letters signed by potential participants' physicians
- Normal FIT: letter with explanation of test results and importance of annual screening

- Abnormal FIT: called by healthcare provider to discuss results and referral for colonoscopy (if no answer... mail a letter)
- If participant signs medical record release form... assist with getting FIT results

### Mammography Outreach Overview

Two Ongoing Trigger Campaigns (in-home):

- 1. Reminders Last mammogram over two years
- 2. Birthday reminders 40 years
- Target Audience
  - Patients, Friends and Family, and Pure Prospects
  - Age Range: 39-74
  - Service Area: Primary Service Area and Secondary Service Area
- Start Date: February 28, 2017 (monthly drop)
- Total Reach to Date Calendar Year 2019: **38,389**
- Response Calendar Year 2019 (mammography encounters):
   837 individuals (70 new patients)

<Name>, Have you scheduled your mammogram? Don't Eoget-//

Happy Birthday to you, <name>!

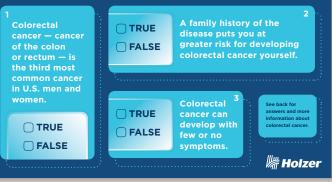
Celebrate another year of life and good health this year by scheduling your mammogram at Holzer.



### Trigger Campaign (in-home)

- Target Audience
  - Patients, Friends and Family, and Pure Prospects
  - Age Range: 50-75
  - Oncology: Colorectal Extreme Risk, High Risk
  - Service Area: Primary Service Area and Secondary Service
     Area
- Start Date: October 30, 2017 (monthly drop)
- Total Reach to Date Calendar Year 2019: **4,172**
- Screening Response Calendar Year 2019: 123 (18 new patients)

# **Know the Facts**



### **Colon Cancer Educational Face-to-Face**

#### Event

- Date: March 18, 2019
- Location: Ohio University Inn & Conference Center -Athens, Ohio
- Audience:
  - Advertising Outreach: 20 Mile Radius; ages 25-80
  - Targeted Diagnosis or Self-reported
- Targeted Media:
  - Direct, in-home: 4,300
  - Social Media Invitation: 3,582 reached; 30 engaged
  - Social Media Event Recap: 2,027 reached; 126 engaged
  - News Release: Athens area
- Attendance: 18
- Pre- and Post-test given to measure increased awareness
  - 100% of attendees gained knowledge
  - Knowledge was gained in the following areas:
  - 1. How common is colon cancer?:

#### 22.2% increased knowledge

2. A family history of the disease puts you at a greater risk?:

#### 5.5% increased knowledge

- *3. A colonoscopy is the only test available for colorectal cancer?:*
- 11.1% increased knowledge
- 4. A regular exercise routine can help reduce your risk of developing colorectal cancer?:

16.6% increased knowledge





\*\*

Boost Post

Holzer Published by Alyssa Simon [?] · March 8, 2019 · 3

According to the American Cancer Society, colorectal cancer is the third most common cancer diagnosed in both men and women in the United States.

Join us for an educational seminar at the Ohio University Inn & Conference Center in Athens, Ohio to discuss the importance of colon cancer screenings. To RSVP call 740-446-5828 or register online at https://www.holzer.org/.../colorectal-cancer-awareness-semin.../.

Dinner will be provided and participants in attendance will be entered into a drawing to win a \$100 gift card!



 1,031
 17

 People Reached
 Engagements

### Free Skin Cancer Screening

#### Event

- Date: May 18, 2019
- Audience: Open to the public, ages 18+
- Location: Jackson, Ohio
- Total Screened: **36**
- Appointments Scheduled: 6
- Surgical Procedures Performed: 2



### Televised Promotion on Facebook for Event

- Date: May 9, 2019
- Audience: Jackson County, Ohio
- People Reached: 1,418
- Engagements: **52**

Holzer Health System Published by Marla King [?] - May 9 at 9:17 AM - 3

Tune into Jackson Cable Channel 15! Dr. Elizabeth Bentley is discussing the upcoming FREE Skin Cancer Screenings at Holzer Jackson next Saturday, May 18.



Boost Post

1.418 52 People Reached Engagements



# **Cancer Survivor Picnic**

Cancer Survivors, friends, and family from throughout the community gathered for the annual Cancer Survivor Picnic hosted by the Holzer Center for Cancer Care at the Gallipolis Campus.

"It was a wonderful day and we were so blessed with many cancer survivors attending and enjoying the afternoon," shared Sarah Harrigan, RN, MSN, OCN, Director, Holzer Center for Cancer Care. "Our facility is proud to be able to offer this type of event and looks forward to future activities with our communities."

Leslie Shoecraft, Music Therapist, provided special music for the event, and cancer center staff served everyone in attendance.

Donations for prize giveaways were provided by a number of businesses within Gallia and surrounding counties.

"We are so honored to provide this type of event," commented Amity Wamsley, Clinical Coordinator, Holzer Center for Cancer Care. "Our staff truly enjoys supporting our current patients and reconnecting with past patients to celebrate their accomplishments."

### Health Screening Event

#### Event

- Date: October 15, 2019
- Screenings included: Skin Screenings, Breast Exams and Education, Bone Density Testing, and Blood Pressure Checks
- Location: Holzer Center for Cancer Care Gallipolis, Ohio
- Total People Reached on Social Media: 2,466
- Total Engagements on Social Media: 135
- Total Screened: ?
- Appointments Scheduled: ?

Holzer Health System Holzer Published by Karrie Davison 2 · October 15, 2019 · 3

Join us tonight for Free Health Screenings at Holzer Center for Cancer Care from 5pm to 7pm!





1.390 People Reached

108 Engagements

Boost Post

Molzer Health System

Hotzer Published by Ashton Cale O - October 9, 2019 . O

Join us for a free cancer screening event on Tuesday, October 15 from 5pm-7pm at the Holzer Center for Cancer Care, located at 170 Jackson Pike, Gallipolis, OH 45631.

>> Skin Screenings >> Breast Exams and Education >> Bone Density Testing... See More



Tuesday, October 15 5PM - 7PM Holzer Center for Cancer Care + 170 Jackson Pike, Gallipolis, OH 45631 + >> Skin Screenings >> Breast Exams and Education >> Bone Density Testing >> Blood Pressure Checks **Refreshments available!** For more information, call the Holzer Center for Cancer Care at 740-446-3572 1.076 27 People Reached Engagements

Boost Post



Holzer Center for Cancer Care is kicked off the holiday season with an "Illumination of Hope" Christmas Tree Lighting on November 26. The event provided individuals the opportunity to honor a special person during the holiday season.

The event was designed to raise money for the Holzer Center for Cancer Care Patient Donation fund, which is used to purchase gift cards for gas, food items, etc. for those cancer patients and their families who may need an extra hand during treatments.

# Illumination of Hope

The 2019 personalized ornament carried the name of the honoree and was placed on a Christmas tree that remained in the Center's healing garden throughout the Holiday season. A reading of the names recognized all the honorees during the special ceremony. Musical entertainment was be provided by Leslie Shoecraft, Music Therapist.

### Colon Cancer Screening Quiz

Social Media Post

Holzer Health System Published by Kelly Christian [?] - March 16, 2019 - 🕥

Should you be screened for colon cancer? Take this quiz and find out now! http://web.goodhealthcontent.com/shareContent...



WEB.GOODHEALTHCONTENT.COM Quiz: When Should I Be Screened for Colon Cancer? Not sure when to begin colon cancer screening – or if you need to be...

727	33	
People Reached	Engagements	Boost Post



Total People Reached: 727

Total Engagements: 33



### Informational Video

Social Media Post

#### Holzer Health System

Holzer Holzer Center for Cancer Care Info Video

Looking for cancer care that's close to home? Think Holzer First! Click this video to learn more about our team and available treatment options at the Holzer Center for Cancer Care.

www.holzer.org/cancercare See Less



- Date: March 23, 2019
- Total People Reached: 2,700
- Total Engagements: 54
- Total Clicks: 109

### Colon Cancer Screening Quiz

Social Media Post

Holzer Health System

Today is Cancer Survivor's Day. Learn about how happiness can impact your life expectancy now! https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/health-wellness/healthyliving&uri=article/is-thisthe-secret-to-living-longer



WEB.GOODHEALTHCONTENT.COM
Is This the Secret to Living Longer?
You may be surprised by how much your happiness can affect your...

Date: June 2, 2019

Total People Reached: 829

Total Engagements: 13



...

### Low-Dose CT - Takeover

Social Media Post

#### Holzer Health System

Holzer Published by Ashton Cale 2 · August 6, 2019 · 3

"Hello! My name is Nicole Koren. I am the Program Coordinator for the Low-Dose CT Lung Cancer Screenings. My job as coordinator is to screen patients to determine eligibility for the program. I will answer any questions or concerns patients may have about the exam. I document and track the findings to ensure patients receive appropriate care.

We follow CMS definitions for the Low-Dose CT Lung Cancer Screening criteria. Patients age 55-77 who are smokers or who have quit w... See More



- Date: August 6, 2019
- Total People Reached: 3,887
- Total Engagements: 418

### **Ovarian Cancer Quiz**

Social Media Post

Holzer Health System Holzer Published by Alyssa Simon • September 2, 2019 • •

September is Ovarian Cancer Month. Would you know if you had Ovarian Cancer? Take this important quiz now. https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/health-wellness/healthyliving&uri=article/quizwould-you-know-if-you-had-ovarian-cancer



Quiz: Would You Know If You Had Ovarian Cancer?

Take this quiz to uncover some important facts about this disease.

1,150	31	(1
People Reached	Engagements	Boost Post

- Date: September 2, 2019
- Total People Reached: 1,150
- Total Engagements: **31**



...

### **Prostate Health Month**

Social Media Post

Holzer Health System ... Holzer Published by Alyssa Simon 2 · September 4, 2019 · 3 This month is known as Prostate Health Month! Learn more about cancer screenings men need now! https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/healthwellness/healthyliving&uri=article/infographic-cancer-screeningsmen-need Cancer Screenings **Men Need** WEB.GOODHEALTHCONTENT.COM Infographic: Cancer Screenings Men Need These are 3 of the most common cancers affecting men and the scr...

 907
 17

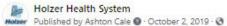
 People Reached
 Engagements

- Date: September 2, 2019
- Total People Reached: 907
- Total Engagements: 17

...

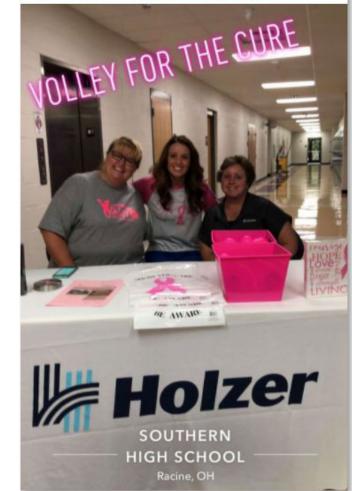
### Colon Cancer Screening Quiz

Social Media Post



Holzer was proud to support Southern Local Schools with their middle

school Volley for the Cure game on Tuesday, October 1.



- Date: October 2, 2019
- Total People Reached: 2,354
- Total Engagements: 157



...

### Breast Cancer Awareness Social Media Post

#### Holzer Health System

Holzer Published by Kayla McNeal @ • October 3, 2019 • S

It's Breast Cancer Awareness Month! Click to learn more about how a low-fat diet can reduce your risk of Breast Cancer.

https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/health-wellness/healthyliving&uri=article/canthis-lower-your-risk-of-dying-from-breast-cancer



WEB.GOODHEALTHCONTENT.COM

#### Can This Lower Your Risk of Dying from Breast Cancer?

Here's why you'll want to follow a low-fat diet rich in plant-based f...

789	12	
People Reached	Engagements	Boost Post

- Date: October 3, 2019
- Total People Reached: **789**
- Total Engagements: 12

### **Breast Cancer Awareness**

Social Media Post

Holzer Health System Published by Ashton Cale • October 3, 2019 • •

In recognition of Breast Cancer Awareness Month, all Holzer Mammography patients will receive free pink swag items throughout the month of October. To schedule an appointment, call 1-855-4HOLZER (1-855-446-5937).

...



Total Engagements: 95



Social Media Post/Event

Holzer Health System is with Danielle Llewellyn and 2 others. Published by Marla King @ • October 6, 2019 • 🛇

Thank you Team Holzer for your participation in the Komen More Than Pink - Athens Walk this morning! Never give up hope!



2,726 293 People Reached Engagements

Boost Post

Date: October 6, 2019

- Total People Reached: 2,726
- Total Engagements: 293

### National Mammography Day

Social Media Post

### Holzer Health System

Holzer Published by Kayla McNeal 20 · October 18, 2019 · S

Today is National Mammography Day. Learn more about why knowing your own health and having mammograms is important!

https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/health-wellness/healthyliving&uri=article/whyits-important-to-know-if-you-have-dense-breasts



WEB.GOODHEALTHCONTENT.COM

Why It's Important to Know If You Have Dense Breasts This Q&A answers common questions about breast density and br...

 1,335
 50

 People Reached
 Engagements

- Date: October 18, 2019
- Total People Reached: 1,335
- Total Engagements: 50



...

### Lung Cancer Awareness Social Media Post

#### Holzer Health System

Holzer Published by Kayla McNeal 2 · November 7, 2019 · S

November is Lung Cancer Awareness Month. Read this article to find out if you are someone who should be screened for lung cancer!

https://web.goodhealthcontent.com/shareContent? src=www.holzer.org/health-wellness/healthyliving&uri=article/whoshould-be-screened-for-lung-cancer



WEB.GOODHEALTHCONTENT.COM Who Should Be Screened for Lung Cancer? If you're concerned about lung cancer, here's what you need to kn...

711	9	Carl Street Street Street
People Reached	Engagements	Boost Post

- Date: November 7, 2019
- Total People Reached: 711
- Total Engagements: 9

### "No Shave November" Contest

Social Media Posts and Contest Submissions

### 1 Winner Chosen, 11 Submissions Total



I] lost my mother to colon cancer, and I am a cancer survivor."

- Fredrick Dorse



"My fiancee, Michael, always participate in 'No Shave November' for support of cancer atients."

- Amber Horne



"Promoting Men's health has been a great team building exercise for the men in Security, Communications Center, and acilities."

- Morgan Saunders

Holzer Health System

Holzer Published by Ashton Cale 2 · December 5, 2019 · 3

Congratulations to our No Shave November prize winner, Gary Phillips! When asked why he participates in No Shave November, he stated:

"This is my small way to bring attention to cancer education, research, and prevention. If my facial hair can encourage just one person to get a cancer screening who hadn't previously, it'll make this itchy gray beard worth the effort."

Thank you to all who participated in our competition, and for supporting the cause! For more information o... See More

94

Engagements

### No Shave November Prize Winner: Gary Phillips



"This is my small way to bring attention to cancer education. research, and prevention. If my facial hair can encourage just one person to get a cancer screening who hadn't previously, it'll make this itchy gray beard worth the effort." - Gary Phillips

1,775 People Reached

Boost Post

Promotions posted separately on November 1, 14, & 30; Winner posted December 5, 2019.

- Total People Reached: 5,006
- Total Engagements: 247
- Total Contest Submissions: 11



The major marketing campaign for Holzer Center for Cancer Care featuring TrueBeam debuted in January 2019. The campaign comprised of a full range of multimedia, including a television commercial, traditional and internet radio spots, video and print patient testimonails, print ads, print newsletter, print brochure, outdoor billboards, social media, digital advertising, and a campaign website landing page.

44

### **TV Commercial**

Broadcast on WSAZ, local cinemas, social media, and as digital advertising



### **Print Advertising**

Ads placed in local newspapers in all market area

Ads featured patient testimonials and information about TrueBeam





HIGH-PRECISION TREATMENT in 2 Minutes or Less

At the Holzer Center for Cancer Care, you can expect the highest level of advanced individualized care available.

The TrueBeam<sup>™</sup> Radiotherapy System offers new possibilities for the treatment of cancers in the lung, breast, prostate, brain, head and neck, and more.

 
 Treatments may now be

 • Treatments are delivered with completed in less than
 2 minutes

 2 minutes
 radiation exposure

 TrueBeam"offers state-of-the-art Stereotactic Body Relation (SBRT) and Radiosurgery (SR5) treatments Just like the Cyberknife', TrueBeam" delivers pinpoint radiation in 1-5 treatments instead of 30-40 treatment

www.holzer.org/cancercare

1-855-4HOLZER (1-855-446-5937)



2018. Thankfully, the cancer was detected in an early stage and treatment prognosis was optimistic. Howell met with Dr. Divya Arora, Radiation Oncologist, to begin his treatment.

I was able to complete

my treatments close to

ne. Holzer has always been there for me.

"I was informed that I had cancer and could receive my radiation treatments at Holzer Center for Cancer Care," Howell said. "I had great faith in Dr. Arora. She is always concerned about her patients, and listens to truly understand what is happening."

Rick Howell was diagnosed with prostate cancer in March

"Throughout the entire process I had a positive experience," he said. "The staff were helpful from the very beginning. I am indebted to each of them."



### **Digital Advertising**

- Digital Display
  - Clicks: 4,480
  - Click Through Rate: 0.26%
  - Impressions: 1.7 million
- Digital Video
  - Clicks: 120
  - Impressions: 36,500
  - Views: 11,500
  - View Rate: 31.65%
- Digital Search
  - Clicks: 725
  - Click Through Rate: 3.39%
  - Impressions: 21,400
  - Conversions: 110.33



### Billboards

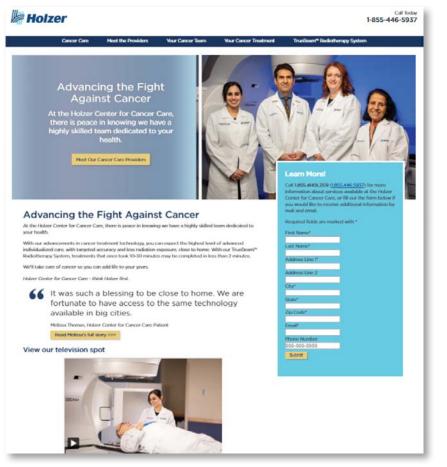
Billboards were placed throughout all market area



### Website Landing Page

Campaign landing page created to enhance web presence; Digital ads click through to campaign landing page

- Pageviews: Increased 613.79%
  - Time measured: January 1 August 20, 2019 compared to May 14, 2018 - December 31, 2018
  - Total: 9,629 pageviews (Jan. 1 Aug. 20, 2019) vs. 1,349 pageviews (May 14 - Dec. 31, 2018)
- Unique Page Views: Increased 721.90%
  - Time measured: January 1 August 20, 2019 compared to May 14, 2018 - December 31, 2018
  - Total: 8,819 pageviews (Jan. 1 Aug. 20, 2019) vs. 1,073 pageviews (May 14 - Dec. 31, 2018)
- Average Time on Page: Increased 42.52%
  - Time measured: January 1 August 20, 2019 compared to May 14, 2018 - December 31, 2018
  - Total: 00:01:34 (Jan. 1 Aug. 20, 2019) vs. 00:01:06 pageviews (May 14 - Dec. 31, 2018)
- Entrances: Increased 1,484.38%
  - Time measured: January 1 August 20, 2019 compared to May 14, 2018 - December 31, 2018
  - Total: 7,605 (Jan. 1 Aug. 20, 2019) vs. 480 (May 14 - Dec. 31, 2018)



The Holzer Center for Cancer Care landing and web pages were the No. 1 visited services pages during Calendar Year 2019.



### Takeover Tuesday

#### Social Media Posts

Date: January 15, 2019

Total People Reached: 21,768

Total Engagements: 4,313

#### Holzer Health System Holzer Published by Ashton Cale O · January 15, 2019 · O

"Hello! I'm Dr. Divya Arora, Radiation Oncologist at the Holzer Center for Cancer Care. I love what I do because it is incredibly rewarding to work with patients during one of the hardest times in their lives. It is humbling to have patients put their trust in us and choose Holzer for their cancer care. The reward I receive when I am able to tell my patients following their treatments that they are cancer free is beyond compare. I am very excited about our brand-new technology, TrueBeam. The TrueBeam System is a state-of-the-art radiation machine with pinpoint accuracy. We are now able to treat some cancers with Stereotactic Body Radiation Therapy (SBRT similar to CyberKnife) in which cancer cells are destroyed in five treatments as opposed to 5 weeks!" #TakeoverTuesday





#### Holzer Health System

Holzer Published by Ashton Cale 🛛 · January 15, 2019 · 🕄

#### It's time for another #TakeoverTuesday!

This week, we are featuring the Holzer Center for Cancer Care staff and TrueBeam, the newly installed radiation machine. TrueBeam is a non-invasive radiation system that kills cancer cells with increased precision and accuracy while sparing healthy tissue. Treatments that once took 10 to 30 minutes may now be completed in less than 2 minutes. Best of all, this machine offers pinpoint radiation in 1-5 outpatient treatments, compared to the 30-40 treatments of traditional machines.

Stay tuned for our next post featuring Divya Arora, MD, Radiation Oncology. Dr. Arora will be sharing her perspective as a provider at the Holzer Center for Cancer Care.



### Video Testimonials

Social Media Posts

Holzer Health System Published by Ryan Bloomfield [?] - July 1 - 3

When Michael Conkle was diagnosed with prostate cancer, he trusted the team at the Holzer Center for Cancer Care with his treatment. Hear Michael tell his story and find out how he's feeling today. Think Holzer First!





- Total People Reached: 30,967
- Total Engagements: 4,529



....

Holzer Health System

Published by Ryan Bloomfield [?] - January 24 - 3

When Rick Howell discovered he had prostate cancer, he trusted the Holzer Center for Cancer Care with his treatment. Hear Rick tell his story and the special news he received in December.

...



### **Brochure**

### Print



ADVANCING THE FIGHT AGAINST CANCER





www.holzer.org/cancercare 1.855.4HOLZER (1.855.446.5937)

#### HIGH-PRECISION TREATMENT in 2 Minutes or Less

The TrueBeam" Radiotherapy System is a non-invasive stateof-the-art radiation machine that delivers powerful cancer treatment that eliminates cancer cells with increased precision and accuracy while sparing healthy tissue.

'rueBeam'" offers new possibilities for the treatment of cance in the lung, breast, prostate, brain, head and neck, and more.

 Treatments may now be completed in less than 2 minutes Treatments are delivered with pinpoint accuracy and less radiation exposure

 TrueBeam<sup>®</sup> offers Stereotactic Body Radiation (SBRT) and Radiosurgery (SRS) treatments

> Just like the Cyberknife", TrueBeam'" delivers pinpoint radiation in 1-5 treatments instead of 30-40 treatments



d the latest cancer-fit ith our advancements i

notherapy with 12 bays and two es are provided with our state-of-the-nam<sup>\*\*</sup> Radiotherapy System with targe

king labyrinth, a reflecting pool and all, and benches for rest and med



professionals:

Radiation Oncologist

 Diagnostic Radiologis · Pathologist · Surgeon, general or spe-

Radiation Therapist

 Palliative Care provider Oncology Nurses

Chemotherapy Nurses

Dosimetrist

ur team. You can be assured that the board-certified medical ionals working with you are among the most highly d anywhere. Our specialists blend their expertise togethe rovide a unified approach to optimal treatment and provide

ey will work with you to: Educate, inform, and explain your care Respect your wishes about treatment Respond to your needs
 Provide information to help you about your care



"I feel fortunate that I was able to complete my treatments close to home, Holzer has always

for me."

been there



us of not only the medic aspects, but also the natural and spiritual components so impor to the healing process. Many people choose to



walk the path of a labyrinth as a tool for meditation, reflection praver, and comfort.

#### Commission on Cancer

Additional Resources

CANCER SURVIVOR SUPPORT GROUP: Holzer Center for Cancer

Care sponsors a monthly Cancer Survivor Support Group at Holzer Gallipolis. The group is designed to help individuals, who either have

cancer or are cancer survivors, and their loved ones, understand

support they need. The group meets monthly and features guest

cancer, manage treatment and recover, and find the emotional

speakers to discuss topics of interest for those in attendance.

The Holzer Center for Cancer Care is encer Commission on Cancer\* accredited by the Commission on Can (CoC). As a CoC-Accredited Cancer Program, Holzer Center for Cancer Care demonstrates an important commitmer to providing all patients with access to services they need from

diagnoses through treatment, rehabilitation, and survivorship care. The Commission on Cancer is a consortium of professional organizations dedicated to improving survival and quality of life of patients with cancer through standards setting, prevention, research,

education, and the monitoring of comprehensive care.











### Palliative Care



management.

of life.

This can include treating nausea related to chemotherapy, morphine to treat the pain of broken leg, or ibuprofen to treat aching related to an influenza (flu) infection.

Palliative Care focuses on relieving and preventing the suffering of patients. Palliative care specializes in the relief of the pain, symptoms and stress of serious illness. Palliative care is given to improve the quality of life of patients who have a serious or life-threatening disease, such as cancer.

#### Palliative Care



The goal of palliative care is to prevent or treat, as early as possible, the symptoms and side effects of the disease and its treatment, in addition to the related psychological, social, and spiritual problems. The goal is not to cure. Palliative care is also called comfort care, supportive care, and symptom

Palliative medicine is appropriate for patients in all disease stages, including those undergoing treatment for curable illnesses and those living with chronic diseases, as well as patients nearing the end

Palliative medicine at Holzer utilizes a multidisciplinary approach to patient care, relying on input throughout our healthcare system, including physicians, pharmacists, nurses, chaplains, social workers, and Hospice to create a plan of care to relieve suffering in all areas of life. This multidisciplinary approach allows the palliative care team to address physical, emotional, spiritual and social concerns that arise with advanced illness.

The Palliative Care Team plans to provide both effective inpatient and outpatient management of patients with serious, potentially life threatening illness independent of curative or life-prolonging care. The primary focus is placed on pain and symptom control, psychosocial distress, spiritual issues and practical needs. Additionally, our desire is to be very informative so that patients and their families can fully understand the illness, prognosis and treatment options and then work from that knowledge in establishing goals of care. Knowledge, understanding and compassion are key foundational concepts for the success of Palliative Care.

### How do I know if Palliative Care is **Right for Me?**

Palliative care may be right for you if you suffer from pain or other symptoms due to a serious illness. Serious illnesses include but are not limited to:

Cancer

- AIDS
- Cardiac disease
- Amyotrophic Lateral
- Respiratory disease
- Sclerosis (ALS)

- Kidney failure
- Alzheimer's

- Multiple Sclerosis
- Palliative care can be utilized at any stage of illness and alongside curative treatment.

### What Can I Expect from Palliative Care?

When you receive palliative care you can expect relief from distressing symptoms such as pain, shortness of breath, fatigue, constipation, nausea, loss of appetite and difficulty sleeping. Palliative care improves your ability to carry on with your daily life. It improves your ability to tolerate medical treatments and helps you to better understand your condition and your choices for medical care. In short, you can expect the best possible quality of life.

### **Common Indications for** Palliative Care

Some of the more common indications for palliative care consultation include:

• Intractable symptom (pain, nausea, depression, etc.) management associated with end stage or serious illness,

- Discussing goals of treatment/care and prognosis, and assistance with coordination of care,
- Patients who have frequent readmissions to the acute care setting can often benefit from palliative care consultation especially when a progressing illness such as COPD, CHF or advanced renal disease are the culprit. Complex family system dynamics often create situations in which palliative care can be beneficial as well.

### **Palliative Care & Cancer**

Palliative care is given throughout a patient's experience with cancer. Our palliative care nurse, Teresa Stewart, RN, CHPN, meets with each patient at diagnosis and continues through treatment, follow-up care, and the end of life.

Palliative care is provided in addition to cancer treatment. However, when a patient reaches a point at which treatment to destroy the cancer is no longer warranted, palliative care becomes the total focus of care. Palliative care will be continued to alleviate the symptoms and emotional issues of cancer. Palliative care providers can help ease the transition to end-of-life care.

### Palliative Care & Cancer Family Care

It's common for family members to become overwhelmed by the extra responsibilities placed upon them.

Palliative care can help families and friends cope with these issues and provide the support needed.

Lung/I Breast Colore Leuker Prostat

Skin

Bladde

Pancre

Corpus

All Oth

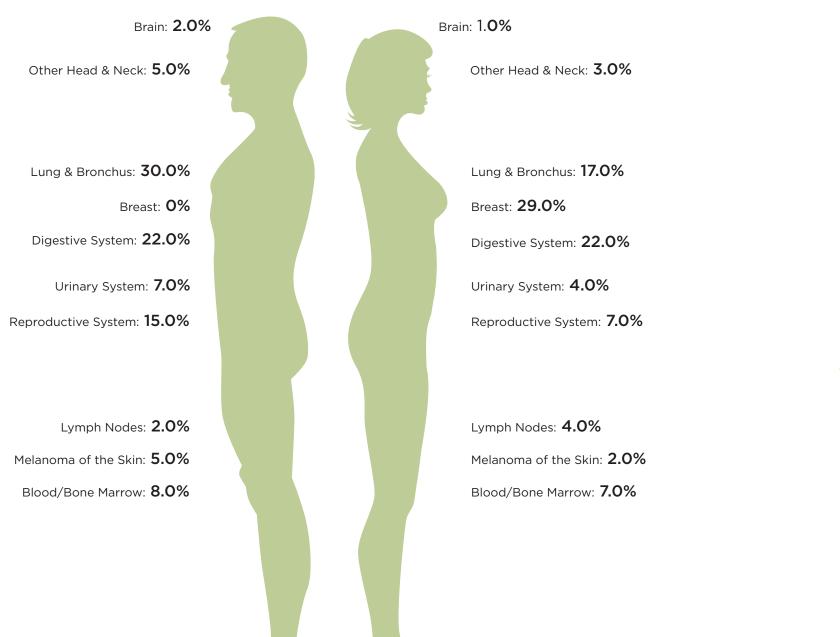
TOTAL

# Cases Diagnosed in 2019 >> Description of Top Sites Compared to Ohio & National

An estimated 1,762,450 new cancer cases have occurred nationally in 2019. The state of Ohio is estimated at 67,150. Holzer Center for Cancer Care (HCCC) had 284 analytic cases for the year. The incidence rate for men and women nationally is 870,970 and 891,480 respectively. Holzer was 10 percent above the national level for lung, our top site, and approximately the same as the national level for breast, our second-highest site. Leukemia is 3.9 percent and 4.3 percent above the national and state average respectively. Prostate is below national average by 2.9 percent and 1 percent below state average. Colorectal incidence is similar to last year at 11.6 percent (compared to 12.1% in 2018) and is 3.3 percent above the national average.

	нссс	PERCENTAGE	оню	PERCENTAGE	NATIONAL	PERCENTAGE
/Bronchus	65	22.9%	9,680	14.4%	228,150	12.9%
t	45	15.9%	10,240	15.2%	271,270	15.4%
ectal	33	11.6%	6,200	9.2%	145,600	8.3%
emia	21	7.4%	2,100	3.1%	61,780	3.5%
ate	20	7.0%	5,340	8.0%	174,650	9.9%
	10	3.5%	3,750	5.6%	96,480	5.5%
ler	10	3.5%	3,210	4.8%	80,470	4.6%
eas	9	3.2%	1,880	2.8%	56,770	3.2%
us Uteri	8	2.8%	2,600	3.9%	61,880	3.5%
hers	63	22.2%	22,150	33.0%	585,400	33.2%
LS:	284	100.0%	67,150	100.0%	1,762,450	100.0%

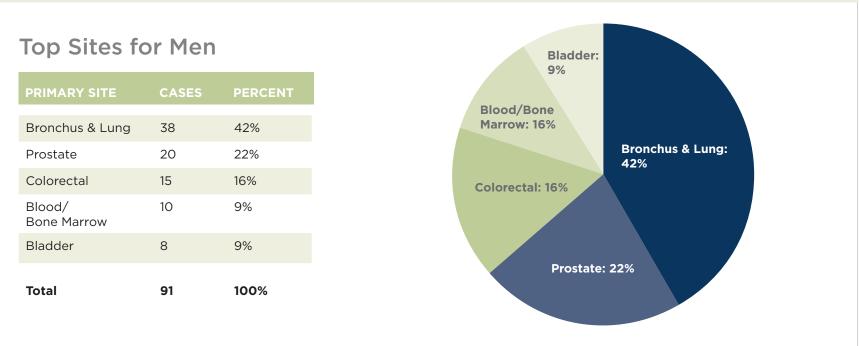
### 2019 HCCC Site Distribution Data Illustration for Diagnosis



All Other Sites: **4.0%** 

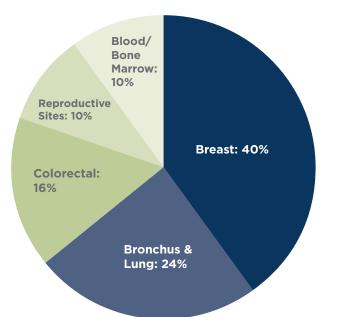
All Other Sites: 4.0%

### **2019 National Comparison of Estimated Top Cancer Sites**



### **Top Sites for Women**

PRIMARY SITE	CASES	PERCENT
Breast	45	40%
Bronchus & Lung	27	24%
Colorectal	18	16%
Reproductive Sites	11	10%
Blood / Bone Marrow	11	10%
Total	112	100%



### Site of Focus: Breast Cancer



According to the American Cancer Society, breast cancer is the most common cancer in American women, except for skin cancers. Currently, the average risk of a woman in the United States developing breast cancer sometime in her life is about 13%. This means there is a 1 in 8 chance she will develop breast cancer. This also means there is a 7 in 8 chance she will never have the disease.

metastasized.

Current year estimates for breast cancer The American Cancer Society's estimates for breast cancer in the United States for 2020 are:

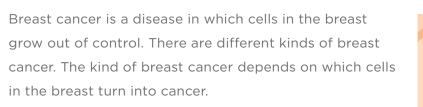
• About 276,480 new cases of invasive breast cancer will be diagnosed in women.

• About 48,530 new cases of carcinoma in situ (CIS) will be diagnosed (CIS is noninvasive and is the earliest form of breast cancer).

• About 42,170 women will die from breast cancer.

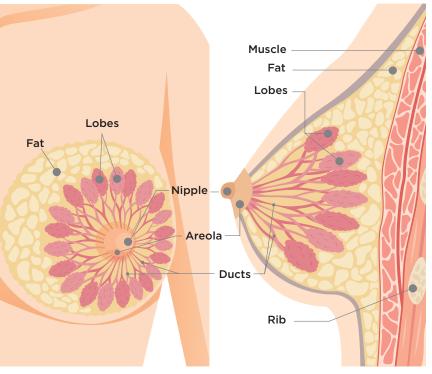
Trends in breast cancer incidence in recent years: • Incidence rates have increased slightly (by 0.3% per year). Trends in breast cancer deaths:

• Breast cancer is the second leading cause of cancer death in women (only lung cancer kills more women each year). The chance that a woman will die from breast cancer is about 1 in 38 (about 2.6%). Since 2007, breast cancer death rates have been steady in women younger than 50, but have continued to decrease in older women. From 2013 to 2017, the death rate decreased by 1.3% per year. These decreases are believed to be the result of finding breast cancer earlier through screening and increased awareness, as well as better treatments.



Breast cancer can begin in different parts of the breast. A breast is made up of three main parts: lobules, ducts, and connective tissue. The lobules are the glands that produce milk. The ducts are tubes that carry milk to the nipple. The connective tissue (which consists of fibrous and fatty tissue) surrounds and holds everything together. Most breast cancers begin in the ducts or lobules.

Breast cancer can spread outside the breast through blood vessels and lymph vessels. When breast cancer spreads to other parts of the body, it is said to have



### How is Breast Cancer Diagnosed?

- **BREAST ULTRASOUND.** A machine that uses sound waves to make detailed pictures, called sonograms, of areas inside the breast.
- **DIAGNOSTIC MAMMOGRAM.** If you have a problem in your breast, such as lumps, or if an area of the breast looks abnormal on a screening mammogram, doctors may have you get a diagnostic mammogram. This is a more detailed X-ray of the breast.
- MAGNETIC RESONANCE IMAGING (MRI). A kind of body scan that uses a magnet linked to a computer. The MRI scan will make detailed pictures of areas inside the breast.
- **BIOPSY.** This is a test that removes tissue or fluid from

the breast to be looked at under a microscope and do more testing. There are different kinds of biopsies (for example, fine-needle aspiration, core biopsy, or open biopsy).

### Staging

If breast cancer is diagnosed, other tests are done to find out if cancer cells have spread within the breast or to other parts of the body. This process is called staging. Whether the cancer is only in the breast, is found in lymph nodes under your arm, or has spread outside the breast determines your stage of breast cancer. The type and stage of breast cancer tells doctors what kind of treatment you need.





# **Types of Breast Cancer**

The type of breast cancer is determined by the specific cells in the breast that are affected. Breast cancers are diagnosed based on a biopsy, where tissue is removed and examined under a microscope.

### Ductal Carcinoma in Situ (DCIS)

DCIS is also called intraductal carcinoma or stage 0 breast cancer. DCIS is a non-invasive or pre-invasive breast cancer. This means the cells that line the ducts have changed to cancer cells but they have not spread through the walls of the ducts into the nearby breast tissue. Because DCIS hasn't spread into the breast tissue around it, it can't spread (metastasize) beyond the breast to other parts of the body. However, DCIS can sometimes become an invasive cancer. At that time, the cancer has spread out of the duct into nearby tissue, and from there, it could metastasize to other parts of the body. Right now, there's no good way to know for sure which will become invasive cancer and which ones won't, so almost all women with DCIS will be treated.

### Lobular Carcinoma in Situ (LCIS)

LCIS is a non-invasive breast cancer. This means that the cancer cells are contained in the lobules of the milkproducing glands of the breast, but they do not grow through the wall of the lobules. Women with LCIS have a higher risk of developing invasive cancer in either breast. LCIS usually does not cause a tumor that can be felt or changes that can be seen on a mammogram. Often, LCIS is found when a biopsy is done for another breast problem.

### **Invasive Breast Cancer**

Invasive (or infiltrating) breast cancer means that cancer has spread into surrounding breast tissue. The most common types are invasive ductal carcinoma (IDC) and invasive lobular carcinoma (ILC).

- INVASIVE DUCTAL CARCINOMA makes up about 70-80 percent of all breast cancers. This is the most common type of breast cancer. About 8 in 10 invasive breast cancers are invasive (or infiltrating) ductal carcinomas (IDC). IDC starts in the cells that line a milk duct in the breast. From there, the cancer breaks through the wall of the duct, and grows into the nearby breast tissues. At this point, it may be able to spread (metastasize) to other parts of the body through the lymph system and bloodstream.
- INVASIVE LOBULAR CARCINOMA (ILC) makes up about 1 in 10 invasive breast cancers. ILC starts in the milk-producing glands (lobules). Like IDC, it can spread (metastasize) to other parts of the body. Invasive lobular carcinoma may be harder to detect on physical exam and imaging, like mammograms, than invasive

Types of Breast Cancer continued on page 62



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ductal carcinoma. And compared to other kinds of invasive carcinoma, about 1 in 5 women with ILC might have cancer in both breasts.

### **Triple-Negative Breast Cancer**

Triple-negative breast cancer (TNBC) accounts for about 10-15% of all breast cancers. The term triple-negative breast cancer refers to the fact that the cancer cells don't have estrogen or progesterone receptors and also don't make too much of the protein called HER2. (The cells test "negative" on all 3 tests.) These cancers tend to be more common in women younger than age 40, who are African-American, or who have a BRCA1 mutation.

Triple-negative breast cancer differs from other types of invasive breast cancer in that they grow and spread faster, have limited treatment options, and a worse prognosis (outcome). It is a difficult cancer to treat.

### Inflammatory Breast Cancer

Inflammatory breast cancer (IBC) is rare and accounts for only 1-5% of all breast cancers. Although it is often a type of invasive ductal carcinoma, it differs from other types of breast cancer in its symptoms, outlook, and treatment. IBC has symptoms of inflammation like swelling and redness, but infection or injury do not cause IBC or the symptoms. IBC symptoms are caused by cancer cells blocking lymph vessels in the skin causing the breast to look "inflamed." Symptoms include breast swelling, purple or red color of the skin, and dimpling or thickening of the skin of the breast so that it may look and feel like an orange peel. Often, you might not feel a lump, even if it is there. If you have any of

these symptoms, it does not mean that you have IBC, but you should see a doctor right away.

### Paget Disease of the Breast

Paget disease of the breast is a rare type of breast cancer involving the skin of the nipple and the areola (the dark circle around the nipple). Paget disease usually affects only one breast. In 80-90% of cases, it's usually found along with either ductal carcinoma in situ (DCIS) or invasive ductal carcinoma.

### Metastatic Breast Cancer

Metastatic breast cancer is also called stage 4 or advanced breast cancer. This is when breast cancer has spread beyond the breast to other organs in the body.

Knowing how your breasts normally look and feel is an important part of breast health. Although having regular screening tests for breast cancer is important, mammograms do not find every breast cancer. This means it's also important for you to be aware of changes in your breasts and to know the signs and symptoms of breast cancer.



# **Breast Cancer Signs & Symptoms**

The most common symptom of breast cancer is a new lump or mass. A painless, hard mass that has irregular edges is more likely to be cancer, but breast cancers can be tender, soft, or round. They can even be painful. For this reason, it's important to have any new breast mass, lump, or breast change checked by an experienced health care professional.

Other possible symptoms of breast cancer include:

- Swelling of all or part of a breast (even if no lump is felt)
- Skin dimpling (sometimes looking like an orange peel)
- Breast or nipple pain
- Nipple retraction (turning inward)
- Nipple or breast skin that is red, dry, flaking or thickened
- Nipple discharge (other than breast milk)
- Swollen lymph nodes (Sometimes a breast cancer can spread to lymph nodes under the arm or around the collar bone and cause a

lump or swelling there, even before the original tumor in the breast is large enough to be felt.)

Although any of these symptoms can be caused by things other than breast cancer, if you have them, they should be reported to a health care professional so the cause can be found.

Remember that knowing what to look for does not take the place of having regular mammograms and other screening tests. Screening tests can help find breast cancer early, before any symptoms appear. Finding breast cancer early gives you a better chance of successful treatment.



# **American Cancer Society Guidelines** for the Early Detection of Cancer



Screening tests are used to find cancer before a person has any symptoms. Here are the American Cancer Society's recommendations to help guide you when you talk to your doctor about screening for breast cancer.

- Women ages 40 to 44 should have the choice to start annual breast cancer screening with mammograms (x-rays of the breast) if they wish to do so.
- Women age 45 to 54 should get mammograms every year.
- Women 55 and older should switch to mammograms every 2 years, or can continue yearly screening.
- Screening should continue as long as a woman is in good health and is expected to live 10 more years or longer.
- All women should be familiar with the known benefits. limitations, and potential harms linked to breast cancer screening.

Women should also know how their breasts normally look and feel and report any breast changes to a health care provider right away.

Some women - because of their family history, a genetic tendency, or certain other factors – should be screened with MRIs along with mammograms. (The number of women who fall into this category is very small.) Talk with a health care provider about your risk for breast cancer and the best screening plan for you.

References used: American Cancer Society (cancer.org); Centers for Disease Control (cdc.gov); Breastcancer.org

# **Risk Factors**

### **Risk Factors You Cannot Change**

- GETTING OLDER. The risk for breast cancer increases with age; most breast cancers are diagnosed after age 50.
- **GENETIC MUTATIONS.** Inherited changes (mutations) to certain genes, such as BRCA1 and BRCA2. Women who have inherited these genetic changes are at higher risk of breast and ovarian cancer.
- **REPRODUCTIVE HISTORY.** Early menstrual periods before age 12 and starting menopause after age 55 expose women to hormones longer, raising their risk of getting breast cancer.
- HAVING DENSE BREASTS. Dense breasts have more connective tissue than fatty tissue, which can sometimes make it hard to see tumors on a mammogram. Women with dense breasts are more likely to get breast cancer.

- PERSONAL HISTORY of breast cancer or certain noncancerous breast diseases. Women who have had breast cancer are more likely to get breast cancer a second time. Some non-cancerous breast diseases such as atypical hyperplasia or lobular carcinoma in situ are associated with a higher risk of getting breast cancer.
- **FAMILY HISTORY** of breast cancer. A woman's risk for breast cancer is higher if she has a mother, sister, or daughter (first-degree relative) or multiple family members on either her mother's or father's side of the family who have had breast cancer. Having a first-degree male relative with breast cancer also raises a woman's risk.
- PREVIOUS TREATMENT USING RADIATION THERAPY. Women who had radiation therapy to the chest or breasts (like for treatment of Hodgkin's lymphoma) before age 30 have a higher risk of getting breast cancer later in life.

### **Risk Factors You Can Change**

- NOT BEING PHYSICALLY ACTIVE. Women who are not physically active have a higher risk of getting breast cancer.
- BEING OVERWEIGHT OR OBESE AFTER MENOPAUSE.
- Older women who are overweight or obese have a higher risk of getting breast cancer than those at a normal weight.
- TAKING HORMONES. Some forms of hormone replacement therapy (those that include both estrogen and progesterone) taken during menopause can raise risk for

- breast cancer when taken for more than five years. Certain oral contraceptives (birth control pills) also have been found to raise breast cancer risk.
- **REPRODUCTIVE HISTORY.** Having the first pregnancy after age 30, not breastfeeding, and never having a full-term pregnancy can raise breast cancer risk.
- DRINKING ALCOHOL. Studies show that a woman's risk for breast cancer increases with the more alcohol she drinks.

# **Breast Cancer in Men**

The American Cancer Society estimates for breast cancer in men in the United States for 2020 are:

- About 2,620 new cases of invasive breast cancer will be diagnosed
- About 520 men will die from breast cancer

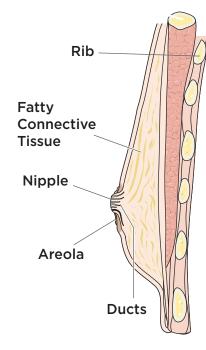
Breast cancer is about 100 times less common among white men than among white women. It is about 70 times less common among Black men than Black women. As in Black women, Black men with breast cancer tend to have a worse prognosis (outlook). For men, the lifetime risk of getting breast cancer is about 1 in 833.

Many people do not realize that men have breast tissue and that they can develop breast cancer. Cells in nearly any part of the body can become cancer and can spread to other areas.

Breast cancer starts when cells in the breast begin to grow out of control. These cells usually form a tumor that can often be seen on an x-ray or felt as a lump. The tumor is malignant (cancer) if the cells can grow into (invade) surrounding tissues or spread (metastasize) to distant areas of the body.

### Male Breast Tissue

Until puberty (on average around age 9 or 10), young boys and girls have a small amount of breast tissue consisting of a few ducts located under the nipple and areola (area around the nipple). At puberty, a girl's ovaries make female hormones, causing breast ducts to grow and lobules to form at the ends of ducts. Even after puberty, boys and men normally have low levels of female hormones, and breast tissue doesn't grow much. Men's breast tissue has ducts, but only a few if any lobules.





Breast cancer is treated in several ways. It depends on the kind of breast cancer and how far it has spread. People with breast cancer often get more than one kind of treatment.





# Breast Cancer Treatment

### Surgery to Remove Breast Cancer

 BREAST-CONSERVING SURGERY (also called a lumpectomy, quadrantectomy, partial mastectomy, or segmental mastectomy) is a surgery in which only the part of the breast containing the cancer is removed. The goal is to remove the cancer as well as some surrounding normal tissue. How much breast is removed depends on where and how big the tumor is, as well as other factors. • **MASTECTOMY** is a surgery in which the entire breast is removed, including all of the breast tissue and sometimes other nearby tissues. There are several different types of mastectomies. Some women may also get a double mastectomy, in which both breasts are removed.

> Breast Cancer Treatment continued on page 68



### Chemotherapy for Breast Cancer

Chemotherapy (chemo) uses anti-cancer drugs that may be given intravenously (injected into your vein) or by mouth. The drugs travel through the bloodstream to reach cancer cells in most parts of the body. Not all women with breast cancer will need chemo, but there are several situations in which chemo may be recommended:

- AFTER SURGERY: Chemo might be given to try to kill any cancer cells that might have been left behind or have spread but can't be seen, even on imaging tests. If these cells were allowed to grow, they could form new tumors in other places in the body. This can lower the risk of breast cancer coming back.
- **BEFORE SURGERY:** Chemo might be given to try to shrink the tumor, so it can be removed with less extensive surgery. Chemo is often used to treat cancers that are too big to be removed by surgery when first diagnosed. It should also kill any cancer cells that have spread but can't be seen. This chemo can also lower the risk of breast cancer coming back.
- FOR ADVANCED BREAST CANCER: Chemo can be used as the main treatment for women whose cancer has spread outside the breast and underarm area, either when it is diagnosed or after initial treatments. The length of treatment depends on how well the chemo is working and how well you tolerate it.

### Hormone Therapy for Breast Cancer

Some types of breast cancer are affected by hormones, like estrogen and progesterone. The breast cancer cells have receptors (proteins) that attach to estrogen and progesterone, which helps them grow. Treatments that stop these hormones from attaching to these receptors are called hormone or endocrine therapy. Hormone therapy is often used after surgery to help reduce the risk of the cancer coming back. It is usually taken for at least 5 to 10 years.

### Immunotherapy for Breast Cancer

Immunotherapy is the use of medicines to stimulate a person's own immune system to recognize and destroy cancer cells more effectively. Immunotherapy can be used to treat some types of breast cancer. An important part of the immune system is its ability to keep itself from attacking normal cells in the body. To do this, it uses "checkpoints" – proteins on immune cells that need to be turned on (or off) to start an immune response. Breast cancer cells sometimes use these checkpoints to avoid being attacked by the immune system. Drugs that target these checkpoints, known as immunotherapy drugs, help to restore the immune response against the breast cancer cells.

### **Radiation for Breast Cancer**

Radiation therapy is treatment with high-energy rays (or particles) that destroy cancer cells. Some women with breast cancer will need radiation, in addition to other treatments. Radiation therapy is used in several situations:

- After breast-conserving surgery (BCS), to help lower the chance that the cancer will come back in the same breast or nearby lymph nodes.
- After a mastectomy, especially if the cancer was larger than 5 cm (about 2 inches), if cancer is found in many lymph nodes, or if certain surgical margins have cancer such as the skin or muscle.
- If cancer has spread to other parts of the body, such as the bones or brain.

# **Breast Cancer Statistics**









### At A Glance



### Estimated New Cases, 2020

Breast, By Sex

#### FEMALE: 276,480

MALE: 2,620

Source: American Cancer Society, 2020

### Estimated Deaths, 2020

Breast, By Sex

### FEMALE: 42,170

MALE: 520

Source: American Cancer Society, 2020

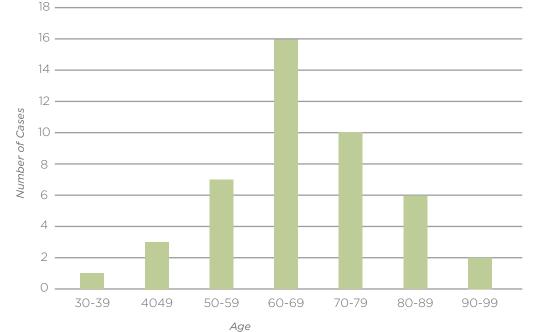
### 5-Year Relative Survival, 2009-2015

Breast (female), by Stage at Diagnosis

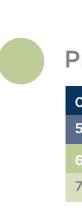
CALIZED: 99%	
GIONAL: 86%	
STANT: 27%	



### Breast Cases by Age



AGE RANGE	CASES
30-39	1
40-49	3
50-59	7
60-69	16
70-79	10
80-89	6
90-99	2



### Additional Cancer Statistics

### Probability of Developing Cancer, 2014-2016

50-59 YEARS: 2.4%
60-69 YEARS: 3.5%
70+ YEARS: 7%

Lifetime risk or risk for those who are cancer free at the beginning of selected age interval. Source: DevCan version 6.7.7, National Cancer Institute, 2019

### Probability of Dying from Cancer, 2014-2016

0-49 YEARS: 0.2%
50-59 YEARS: 0.3%
60-69 YEARS: 0.5%
70+ YEARS: 1.9%

Lifetime risk or risk for those who are cancer free at the beginning of selected age interval. Source: DevCan version 6.7.7, National Cancer Institute, 2019

### **Additional Statistics: Men**

**Estimated New Cancer** Cases\* in the U.S. in 2020 (Males)

PRIMARY SITE	PERCENT
Prostate	21%
Lung & Bronchus	13%
Colon & Rectum	9%
Urinary Bladder	7%
Melanoma of the Skin	7%
Kidney & Renal Pelvis	5%
Non-Hodgkin Lymphoma	5%
Oral Cavity & Pharynx	4%
Leukemia	4%
Pancreas	3%
All Other Sites	22%

#### Total: 893,660

\*Excludes basal cell and squamous cell skin cancers and in situ carcinoma except urinary bladder.

Source: https://www.cancer.org/research/ cancer-facts-statistics/all-cancer-factsfigures/cancer-facts-figures-2020.html

The Lifetime Probability of Developing Cancer for Males, 2014-2016

PRIMARY SITE	PERCENT
All Sites*	1 in 2
Prostate	1 in 9
Lung & Bronchus	1 in 15
Colon & Rectum	1 in 23
Urinary Bladder <sup>+</sup>	1 in 26
Melanoma of the Skin‡	1 in 28
Non-Hodgkin Lymphoma	1 in 41
Kidney & Renal Pelvis	1 in 46
Leukemia	1 in 54
Oral Cavity & Pharynx	1 in 60
Pancreas	1 in 60

\*All sites exclude basal cell and squamous cell skin cancers and in situ cancers except urinary bladder. *†Includes invasive and in situ cancer cases. ‡Statistic for non-Hispanic whites.* 

Source: DevCan: Probability of Developing or Dying of Cancer Software, Version 6.7.7. Statistical Research and Applications Branch, National Cancer Institute, 2019.

Estimated Cancer Deaths in the U.S. in 2020 (Males)

PRIMARY SITE	PERCENT
Lung & Bronchus	23%
Prostate	10%
Colon & Rectum	9%
Pancreas	8%
Liver & Intrahepatic Bile Duct	6%
Leukemia	4%
Esophagus	4%
Urinary Bladder	4%
Non-Hodgkin Lymphoma	4%
Brain & Other Nervous System	3%
All Other Sites	25%

#### Total: 321,160

Source: https://www.cancer.org/research/ cancer-facts-statistics/all-cancer-factsfigures/cancer-facts-figures-2020.html

Estimated New Cancer Cases\* in the U.S. in 2020 (Females)

Breast

Lung &

Colon

Uterine

Thyroid

Melanc Skin

Non-H Lymph

Kidney Pelvis

Pancrea

Leuker

All Oth

\*Excludes basal cell and squamous cell skin cancers and in situ carcinoma except urinary bladder.

Source: https://www.cancer.org/research/ cancer-facts-statistics/all-cancer-factsfigures/cancer-facts-figures-2020.html

### **Additional Statistics: Women**

	PERCENT
:	30%
& Bronchus	12%
& Rectum	8%
e Corpus	7%
d	4%
oma of the	4%
lodgkin noma	4%
/ & Renal	3%
eas	3%
mia	3%
ner Sites	22%

### Total: 912,930

The Lifetime Probability of Developing Cancer for Females, 2014-2016

PRIMARY SITE	PERCENT
All Sites*	1 in 3
Breast	1 in 8
Lung & Bronchus	1 in 17
Colon & Rectum	1 in 25
Uterine Corpus	1 in 33
Melanoma of the Skin†	1 in 41
Non-Hodgkin Lymphoma	1 in 52
Thyroid	1 in 52
Pancreas	1 in 62
Leukemia	1 in 77
Ovary	1 in 80

\*All sites exclude basal cell and squamous cell skin cancers and in situ cancers except urinary bladder. <sup>†</sup>Statistic for non-Hispanic whites.

Source: DevCan: Probability of Developing or Dying of Cancer Software, Version 6.7.7. Statistical Research and Applications Branch, National Cancer Institute, 2019.

Estimated Cancer Deaths in the U.S. in 2020 (Females)

PRIMARY SITE	PERCENT
Lung & Bronchus	22%
Breast	15%
Colon & Rectum	9%
Pancreas	8%
Ovary	5%
Uterine Corpus	4%
Liver & Intrahepatic Bile Duct	4%
Leukemia	3%
Non-Hodgkin Lymphoma	3%
Brain & Other Nervous System	3%
All Other Sites	24%

### Total: 321,160

Source: https://www.cancer.org/research/ cancer-facts-statistics/all-cancer-factsfigures/cancer-facts-figures-2020.html





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