

Summa Health Cancer Institute

2019 Outcomes Report



In Our Patients'
Own Words...

Helen and Ossie Gordon, Breast Cancer and Prostate Cancer

"We were celebrating 50 years of marriage this year, and we can now celebrate knowing that cancer is behind us thanks to Summa."





A message from leadership

Welcome to the 2019 Annual Outcomes report for the Summa Health Cancer Institute. The cancer care team at Summa Health continuously works to improve cancer patient outcomes, survivorship and the overall health of our community. In the pages that follow, you will find examples of the multidisciplinary care, innovation and unparalleled support we are proud to deliver. Our patients inspire us to continue to improve the care we deliver so they can live their best lives possible, and ultimately, beat cancer.

We take our responsibility seriously. Our entire team is dedicated to advancing the care we provide so our patients have less anxiety, less toxicity and improved outcomes.

Cancer care continues to evolve, as do the cancer services and support programs we offer. Highlights from 2019 include:

- **Improved financial navigation:** A redesigned patient financial navigation program helped oncology patients who were already experiencing or were at risk for financial distress.
- **A research study led to changing radiology protocol** to accurately identify brain metastases and contour for hippocampal sparing radiation in cancer patients.
- We **expanded our supportive care** throughout the system.
- Our **research team strove to improve cancer care** by enrolling 170 subjects on clinical trials, encompassing six disease sites: brain, head and neck, breast, lung, prostate and endometrial cancers.

You can read more about all of these initiatives in the following pages.

Our work never stops. Our team remains firmly committed to offering our patients every significant advantage in their battle against cancer. We are relentless in our pursuit of delivering the best possible cancer care.

Sameer Mahesh, M.D.

Interim Medical Director
Summa Health Cancer Institute

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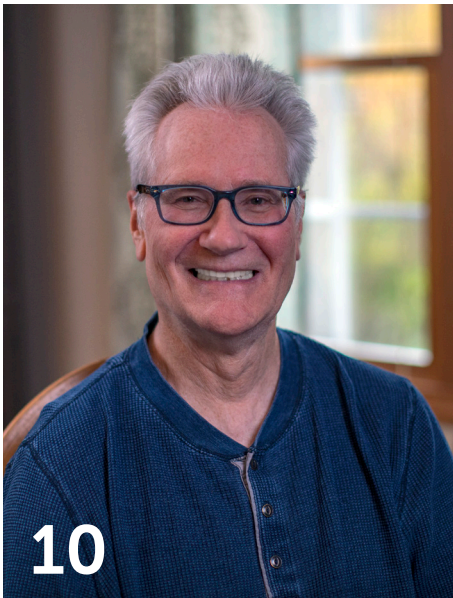
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In Our Patients' Own Words



Recognition

Accreditations

Cancer Program American College of Surgeons Commission on Cancer



The Oncology Program at Summa Health is fully accredited by the American College of Surgeons Commission on Cancer (CoC). The program includes our three cancer centers – the Summa Health Jean and Milton Cooper Pavilion on the campus of Summa Health System – Akron Campus, Summa Health Parkview Pavilion at Summa Health System – Barberton Campus and Summa Health Medina Medical Center. CoC accreditation is the hallmark of excellence and ensures that quality standards are consistently met and/or exceeded by our dedicated cancer care team members.

Commission on Cancer Outstanding Achievement Award

In 2017, our Cancer Institute received the Commission on Cancer (CoC) Outstanding Achievement Award (OAA). A CoC-accredited cancer program is eligible to earn the Outstanding Achievement Award after completing the accreditation survey and receiving a Performance Report that indicates an accreditation award of “Three-Year with Commendation.” The program must receive commendation ratings for the seven commendation level standards and no deficiencies for the remaining 27 standards.

Radiation Oncology American College of Radiology



Summa Health is one of only two major healthcare systems in northeast Ohio to earn the prestigious American College of Radiology (ACR) accreditation in radiation oncology. This places Summa Health amongst a select group of cancer care providers nationwide. Accreditation is awarded only to facilities that meet specific practice guidelines and technical standards developed by ACR after a peer-review evaluation by board-certified radiation oncologists and medical physicists.

Medical Oncology The Quality Oncology Practice Initiative



Summa Health is one of a few cancer centers in Ohio to meet quality measures for medical oncology from the American Society of Clinical Oncology's Quality Oncology Practice Initiative (QOPI). QOPI is an oncologist-led, practice-based quality improvement program, whose goal is to promote excellence in cancer care by helping practices create a culture of self-examination and improvement.

Breast Imaging American College of Radiology



The Summa Health Breast Imaging Centers at Summa Health System – Akron and Barberton Campuses were designated a Breast Imaging Center of Excellence (BICOE) by the American College of Radiology (ACR). The BICOE designation is awarded to breast imaging centers that achieve excellence by seeking and earning accreditation in all of the ACR's voluntary breast-imaging accreditation programs and modules, in addition to the mandatory Mammography Accreditation Program.

Breast Cancer Program National Accreditation Program for Breast Centers



The Summa Health Breast Program at Summa Health System – Akron and Barberton Campuses received a three-year re-accreditation from the National Accreditation Program for Breast Centers (NAPBC), a program administered by the American College of Surgeons. Accreditation by the NAPBC is only given to those centers that have voluntarily committed to provide the highest level of quality breast care and that undergo a rigorous evaluation process and review of their performance.

Lung Screening Lung Cancer Screening Center of Excellence



Summa Health Lung Imaging Center was named a Screening Center of Excellence by the Lung Cancer Alliance for the ongoing commitment to responsible lung cancer screening.

Awards

2019 Acts of Excellence Awards

Each year, employees nominate peers for the Acts of Excellence Awards based on their dedication to care and compassion that goes above and beyond, for their exemplary customer service, and for the dignity and respect for which they treat others. These winners embody the mission and values of Summa Health. Individuals representing the Summa Health Cancer Institute include:

- Leadership Caring Awards – Sue Newbrough, BSN, RN and Kathleen Robinson, RPh, BCOP
- Caring Award – Leslie Pfaff
- Inspirational Award – Jaimee Rood, BSN, RN OCN

March of Dimes Ohio Nurse of the Year Awards

The March of Dimes Ohio Nurse of the Year Awards is an awards event and fundraiser that brings together the healthcare community in Ohio to recognize nursing excellence and achievements in research, education, quality patient care, innovation and leadership. These nurse winners demonstrate exceptional leadership, excellence and service in nursing. The event raised over \$110,000 to support March of Dimes in the fight for the health of all moms and babies.

March of Dimes (Ohio)

2019 Nurse of the Year Award Winner



Barb Saylor, MSN, RN
System Director, Oncology Service Line

Membership

NRG Oncology

NRG Oncology is a non-profit research organization formed to conduct oncologic clinical research and to broadly disseminate study results for informing clinical decision-making and healthcare policy.

NRG
ONCOLOGY

Advancing Research. Improving Lives.™

NRG Oncology seeks to improve the lives of cancer patients by conducting practice-changing multi-institutional clinical and translational research with emphases on gender-specific malignancies including gynecologic, breast and prostate cancers and on localized or locally advanced cancers of all types.

2019 Primary Cancer Sites

Primary Site	Total	Class		Sex	
		Analytic	Non-Analytic	Male	Female
All sites	2,049	2,020	29	874	1,175
Oral Cavity & Pharynx	59	59	0	49	10
Tongue	15	15	0	14	1
Salivary Glands	5	5	0	4	1
Floor of Mouth	7	7	0	5	2
Gum & Other Mouth	7	7	0	6	1
Nasopharynx	4	4	0	3	1
Tonsil	13	13	0	10	3
Oropharynx	6	6	0	5	1
Hypopharynx	2	2	0	2	0
Digestive System	309	306	3	164	145
Esophagus	20	20	0	14	6
Stomach	20	20	0	15	5
Small Intestine	3	3	0	0	3
Colon	111	109	2	53	58
Rectum/Rectosigmoid	59	59	0	37	22
Anus/Anal Canal/Anorectum	14	14	0	4	10
Liver/Intrahepatic Bile Duct	21	21	0	15	6
Gallbladder	1	1	0	0	1
Other Biliary	4	4	0	2	2
Pancreas	50	49	1	22	28
Peritoneum/Omentum/Mesentery	2	2	0	0	2
Other Digestive Organs	4	4	0	2	2
Respiratory System	317	311	6	173	144
Nose, Nasal Cavity & Middle Ear	2	2	0	1	1
Larynx	22	21	1	18	4
Lung/Bronchus	293	288	5	154	139
Bones/Joints	6	5	1	5	1
Soft Tissue	13	13	0	7	6
Skin	41	40	1	26	15
Melanoma	38	37	1	24	14
Other Non-Epithelial Skin	3	3	0	2	1
Breast	436	436	0	4	432
Female Genital System	209	208	1	0	209
Cervix Uteri	19	19	0	0	19
Corpus & Uterus, NOS	126	126	0	0	126
Ovary	42	41	1	0	42
Vulva	17	17	0	0	17
Other Female Genital Organs	1	1	0	0	1
Male Genital System	166	160	6	166	0
Prostate	152	146	6	152	0
Testis	11	11	0	11	0
Penis	2	2	0	2	0
Other Male Genital Organs	1	1	0	1	0
Urinary System	200	195	5	138	62
Urinary Bladder	109	107	2	82	27
Kidney/Renal Pelvis	85	82	3	51	34
Ureter	5	5	0	4	1
Other Urinary Organs	1	1	0	1	0
Brain & CNS	50	49	1	14	36
Brain	17	17	0	9	8
Cranial Nerves Other Nervous	31	31	0	9	22
Endocrine System	56	56	0	16	40
Thyroid	53	53	0	15	38
Other Endocrine including Thymus	2	2	0	1	1
Lymphoma	80	79	1	51	29
Hodgkin Lymphoma	15	15	0	10	5
Non-Hodgkin Lymphoma	65	64	1	41	24
Blood & Bone Marrow	63	59	4	39	24
Leukemia	29	28	1	17	12
Myeloma	19	16	3	14	5
Other Blood & Bone Marrow	15	15	0	8	7
Mesothelioma	7	7	0	3	4
Unknown Primary	37	37	0	18	19

In Our Patients' Own Words

Debra Racey, Endometrial Cancer

"I was experiencing some very heavy vaginal bleeding, so I did some research, and I found Dr. Robin Laskey here at Summa. You just get this overwhelming feeling of this person really, really cares. And I was constantly thanking my lucky stars that I had found her.

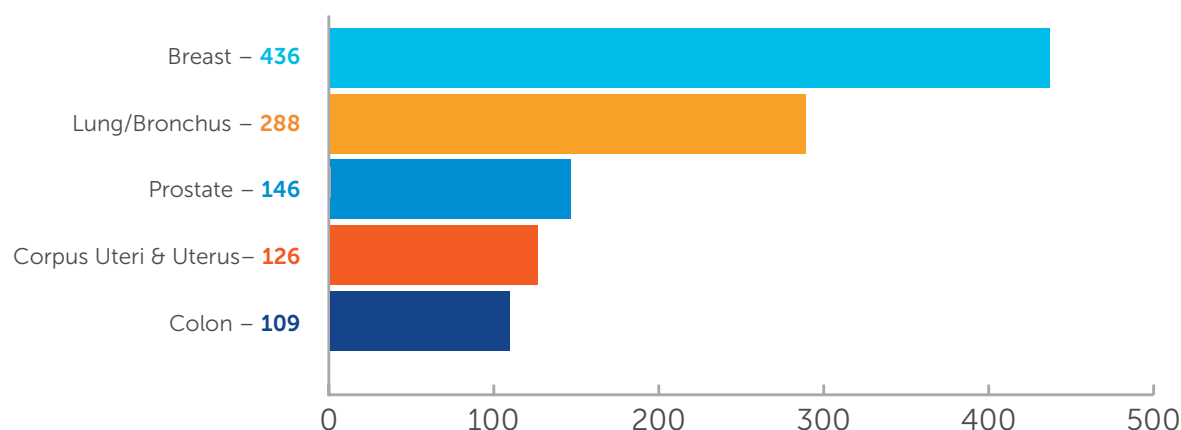
"She told me that I did have endometrial cancer. It's like your whole world really does fall apart.

"There are so many support services here at Cooper Cancer Center, and key amongst them was Dr. Jessica Moeller, who is a psychologist. She was a godsend to me.

"If it weren't for those Summa doctors, I wouldn't be here today. I owe them my life. I literally have to pinch myself daily because I am a cancer survivor. And I have beautiful hair again."



2019 Top Five Cancer Sites



In Our Patients' Own Words

Sharon Jones-Winfrey, Breast Oncology

"They have a wig salon, a massage salon, they offer financial support. Everybody is very compassionate to you, and they realize that you're a person and not just a process. I believe it was the best decision that I ever made to go to Summa Breast Center."



Improving Financial Navigation through Lean Six Sigma Techniques

Working with cancer patients to identify resources to cover the significant costs of care through charity, grants or complex financial navigation has significant benefits for our patients and has shown improved outcomes via improved treatment compliance and decreased patient/family stress. A Lean Six Sigma Green Belt project was initiated and completed at the end of 2018, which identified the need for two additional Patient Financial Advocates in order to better serve the oncology patient population, as well as decrease the overall need for charity care among oncology patients.

With the implementation of the new Financial Advocates, the program was able to switch gears from a reactive approach to a more proactive approach to financial navigation. A proactive approach would allow the Financial Advocates to assess all newly diagnosed patients and identify those with a high potential for

financial distress to begin the process of complex financial navigation - researching and assessing insurance coverage to move uninsured patients into coverage and under-insured patients into better or maximized coverage, as well as the utilization of local foundations, co-pay assistance, grant funding, etc., as appropriate, based on the patient's unique diagnosis and personal circumstances. This approach has the potential to save Summa Health, as well as the patient, a significant amount of money per year, by decreasing the overall need for charity care through HCAP and other Summa Health charity programs.

In 2019, the Summa Health Cancer Institute implemented a redesigned patient financial navigation program in order to better serve oncology patients who were already experiencing or at risk for financial distress. Expanding financial advocacy through developing a

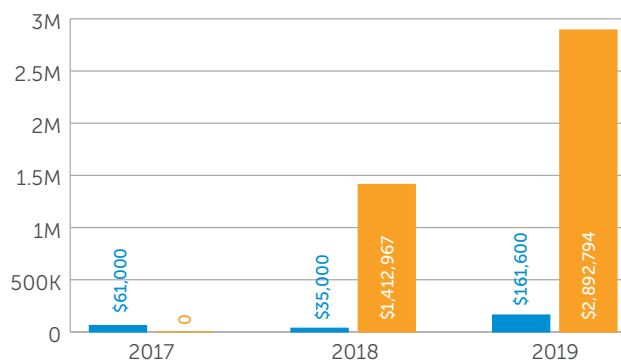
complex financial navigation process within the Summa Health Cancer Institute has also benefited Summa Health's financial stability through improved CMS and commercial reimbursement – significantly reducing the amount of charity care needed. This new method of financial navigation capitalizes on the ability of the Financial Advocate to "maximize" the patient's current insurance and/or transition them into better coverage as appropriate.

Every patient experiences a distress screening at their initial visit in oncology, whether it be with surgical, medical or radiation oncology. Among other things, the screening tool assesses for financial distress. Once a patient has been determined to be at risk for or currently experiencing financial distress, a referral is generated to the Financial Advocates. Once the Financial Advocates have been notified of the new patient, a thorough investigation of the patient's benefits, deductibles and unique needs is initiated in order for the Financial Advocate to provide a higher level of financial literacy to the patient. This allows the patient and the Financial Advocate to work together to make informed decisions about their plan of treatment as it relates to their financial health.

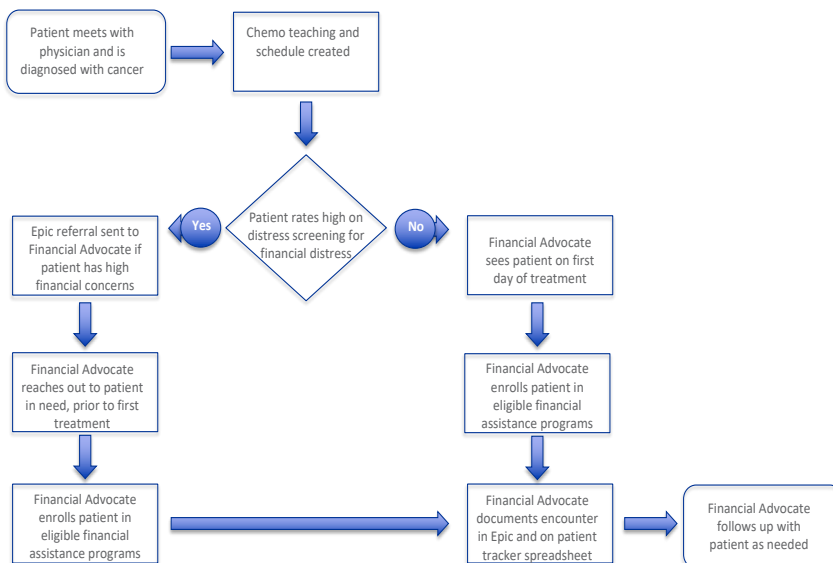
With this new method of financial navigation, we have been able to significantly decrease the patient's overall out of pocket costs by either maximization coverage, initiating other financial support resources or a combination of the two that is customized to each patient's unique diagnosis and financial needs. Additionally, through the implementation of insurance maximization for this patient population, we have been able to save millions of dollars for Summa Health by reducing the need for charity care. Once this program has been well established, it is something that can be successfully expanded into other service lines within Summa Health.

Cost Savings to Patients and Summa Health

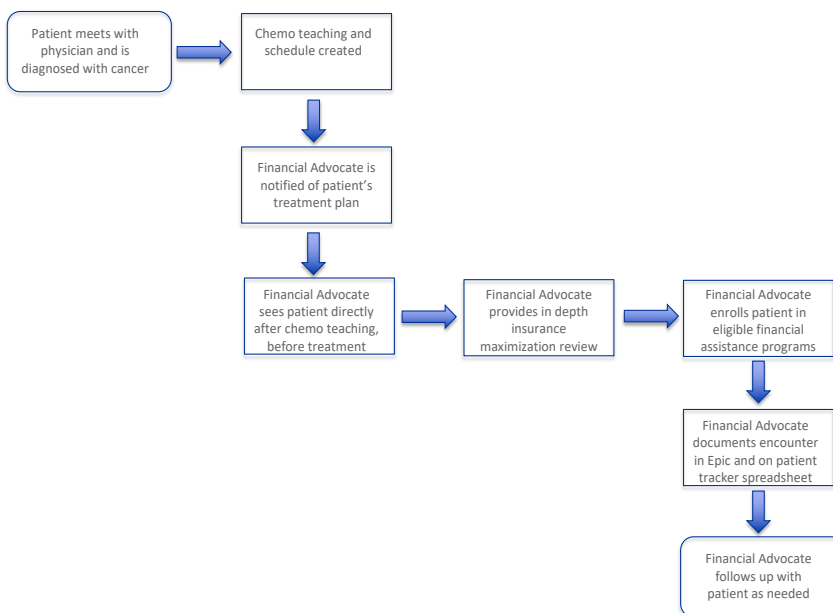
- Money Awarded through Foundations for OOP Costs
- Money Saved through Insurance Maximization



Process Map - Current State (reactive)



Process Map - Future State (proactive)



Commission on Cancer

Standard 4.7 Studies of Quality

Summa Health System 2019

Title of Study: Why aren't all cancer patients receiving the same diagnostic testing to identify brain metastases?

Authors: Oscar Streeter, M.D. and Melissa Smith, RHIT, CTR

Brain metastases are tumors that spread to the brain from cancer that arises in another part of the body. Accurately identifying the number, location and size of brain metastases in cancer patients is important to determine appropriate interventions for the patient.

Before a patient undergoes radiation therapy for specific types of cancer, they undergo magnetic resonance imaging (MRI) of the brain, which is a painless, noninvasive test that produces detailed images of the brain and brain stem.

A radiation oncologist noticed that not all cancer patients undergoing an MRI were receiving the same resolution to identify the brain metastases. It was determined that there was a lack of physician awareness in needing to specify the desired MRI slice thickness while ordering the test and a lack of radiology's awareness for the need for smaller slice thickness in these patients.

Slice thickness of 1 mm was not being routinely used to accurately identify brain metastases in patients already diagnosed with cancer. The current radiology protocol was utilizing 5 mm slices. Some patients had to undergo a second MRI where additional metastases were identified due to the smaller 1 mm slices. This protocol with smaller 1 mm slices is called BrainLab.

A retrospective review of 65 patients with brain metastases treated with radiation was conducted to evaluate whether the current Brain Mets protocol (5 mm slices) was utilized for each patient. If an additional MRI was ordered that utilized 1 mm slices, there was a review to determine if there was a change in the radiation planning based on the findings in the additional MRI.

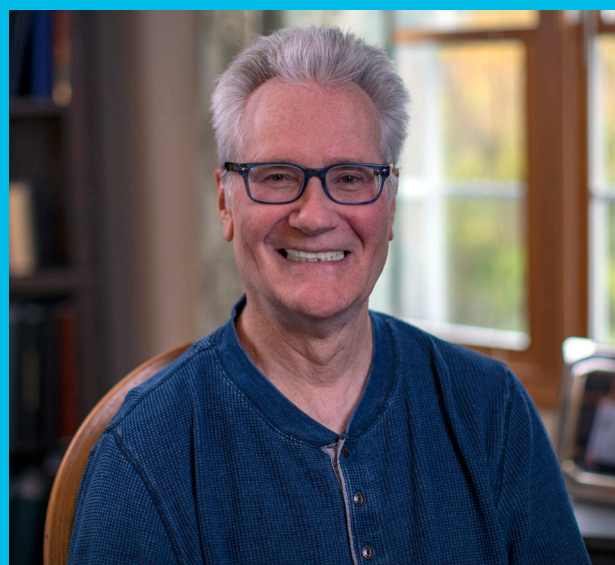
The review confirmed that the BrainLab protocol was only utilized by radiology if specifically requested as an additional study. Smaller brain metastases were found in two patients and radiation planning was changed based on the second MRI. It was determined from these findings that 1 mm slices must be implemented as a standard radiology protocol for cancer patients at Summa Health.

The new protocol was implemented at all Summa MRI facilities on August 23, 2019. All physician offices that order MRIs with a cancer diagnosis and radiology technologists were notified of the change.

In Our Patients' Own Words

Dwight Konic, Prostate Cancer

"I do have a message for men about their health in general. Keep up your yearly physical and get your tests done for prostate, colon, whatever's recommended. Even if I can only help one person, that's one more person that I've helped. And try to be a small piece of helping in someone else through their journey."





Supportive Services Make a Difference

Renewal Nook Expansion

This year the Renewal Nook was able to expand services to Summa Health System— Barberton Campus thanks to the generosity of the Stephen A. Comunale, Jr. Family Cancer Foundation. Funds will allow patients to visit the new Renewal Nook at Parkview Pavilion in Barberton and leave the clinical side of their care at the door. When they enter the newly designed space, they are treated to a spa-like experience. Services include a wig salon and a therapy room.

Sapphire Ball Benefits Supportive Services

The 18th annual Sapphire Ball raised nearly \$1 million. Net proceeds this year benefit Summa Health Cancer Institute Patient Support Services and other key clinical areas at Summa Health.

Cliff Deveny, M.D., president and chief executive officer of Summa Health, highlighted Patient Support Services and its myriad services — financial support, wig-fittings, psychological and nutritional counseling, and much more, all generously supported by the philanthropy of Summa Health supporters. A video featured Jamie McKinley, a lymphoma survivor, and other Summa Health cancer patients.

Bob and Regina Cooper, longtime philanthropic leaders in the Akron community, served as the honorary chairs. James Simon led a group of 22 volunteer fundraisers as the corporate committee chair. Sameer Mahesh, M.D., one of the leading oncology specialists in Northeast Ohio, served as the physician chair.

Named for the precious gemstone that symbolizes wisdom, virtue and good fortune, the Sapphire Ball supports clinically excellent care and life-saving programs for Summa Health patients. The gala has raised more than \$12 million for Summa Health in its lifetime.



Bob and Regina Cooper, Honorary Chairs



Dr. Shefali Mahesh and Dr. Sameer Mahesh

Research Update

The goal of cancer research is to identify new and better treatments for future patients while giving current patients additional treatment options. The search for a cure involves many aspects but would not be possible without people who choose to enroll on clinical trials. The Summa Health Clinical Research Center - Oncology enrolled 170 subjects on clinical trials during 2019, encompassing six disease sites: brain, head and neck, breast, lung, prostate and endometrial cancers.

The Clinical Research Center was successful enrolling patients on DOM-INNATE, an oral mucositis prevention trial, that Dr. Anand Desai and the research team were recognized as top enrollers for the month of May in 2019. Oral mucositis is a painful side effect of chemoradiation that causes difficulty eating, drinking and swallowing, as well as frequent unplanned chemoradiation treatment delays. DOM-INNATE is now closed to enrollment but because of its success, the Clinical Research Center is opening a new trial that will test another experimental treatment for prevention of severe oral mucositis, ROMAN, sponsored by Galera Therapeutics, Inc. This trial will be open for enrollment in October 2020 and will be looking for patients diagnosed with squamous cell carcinoma of the head and neck that require radiation and chemotherapy.

In 2019, the Clinical Research Center opened eight new clinical trials including LUNAR. The LUNAR trial involves an innovative new approach to giving previously treated stage 4 non-small cell lung cancer patients an additional option. Tumor Treating Fields (TTFields) are low intensity electric fields delivered using a medical device. The fields are directed to the anatomical region where the cancer is, and are intended to disrupt tumor cell division, inhibiting tumor growth and potentially causing cancer cells to die. TTFields are used in addition to standard of care therapies with the goal of increasing overall survival. This technology has successfully been used in glioblastoma and is currently approved by the FDA for that indication. The LUNAR trial, led by Dr. Bradley Clifford, will potentially help Novocure (the sponsor of the trial) obtain FDA approval for the use of TTFields in metastatic lung cancer.

DOM-INNATE, ROMAN and LUNAR are just some examples of the Clinical Research Center's commitment to bringing innovative trials closer to home.



"The unique thing about clinical trials is the team that comes along with it. A team of research nurses and research staff that help support it and by extension help support the patients enrolled on them."

Anand Desai, M.D.
Radiation Oncologist

In Our Patients' Own Words

Aricia Robinson, Non-Hodgkin's Lymphoma

"I believe that God puts people in your path and Dr. Mahesh was in mine. For four months, I underwent chemotherapy at the Cooper Cancer Pavilion. Now I'm cancer free. I know that Summa's with me for life."



Bobbie Donohew, Throat Cancer/Neck Cancer

"I know that the Summa cancer team is going to be there with me as a survivor for the rest of my life. They're going to be my lifeline and my support mechanism."



Committee Members

Annual Report Project Committee

Donna Burson

Corporate Communications Strategist

Sameer Mahesh, M.D.

Interim Medical Director

Tracy Mondello

Program Coordinator, Clinical Research

Samantha Pudelski

Senior Marketing Strategist

Connie Reece, MSN, RN

System Manager Outpatient Oncology
Oncology Service Line

Melissa Smith, RHIT, CTR

Program Coordinator, Cancer Registry

Christina White

Manager, Support and Family Programs

Cancer Committee Members

Stephen Andrews, M.D.**Karen Bochert, BSN, RN****Nicole Buie, RN****Paul Byerly, D.O.****Bradley Clifford, M.D.****Arthur Dalton, M.D.****Joseph Dankoff, M.D.****Anand Desai, M.D.****Desiree Doncals, M.D.****Jeanette Doria****Jennifer Eaton, Ph.D., CHRC****Felicia Edwards, MSN, RN****Eric Espinal, M.D.****Jacelyn Fitzwater, BSN, RN-BC, OCN****John Fondran, M.D.****Andrew Haas, M.D.****Cherie Hart-Spicer, M.D.****Sharon Inzetta, RN, MSN, CBCN, CN-BN,
ONN-CG****John Jakob, M.D.****Cindy Jones, RN, BSN, OCN, CTTS****Franciska Kiraly, M.D.****Joseph Koenig, M.D.****Sandy Kohut, RRT, BSAS****Kari Kovach, RN, BSN, CBCN****Tiffany Kurtz, MSN, RN, OCN****Robin Laskey, M.D.****Melanie Lynch, M.D.****Natalie Madonio, RN****Alisa Mahan-Zeitz****Barb Massie, CTR****Pam McCallops, PT-CLT CAPS****Jessica Moeller, Ph.D.****Joshua Nething, M.D.****Sue Newbrough, BSN, RN****Tami O'Connor, PTA, CLT****Gilbert Padula, M.D.****Jennifer Pavlo, M.D.****Leslie Pfaff****Susan Popovici, LISW-S****Jim Posendek, RPh****Connie Reece, MSN, RN****Kathleen Robinson, RPh, BCOP****Rella Rotondo, RD, LD****Terry Rueckert, MBA, BSN, RN****Barb Saylor, MSN, RN****Cheryl Schafer, MBA****Melissa Smith, RHIT, CTR****Melissa Soltis, M.D.****Shannon Speaks, LISW, MSSA****Tom Stamatis, M.D.****Oscar Streeter, M.D.****Margaret Sweigert, RN, MBA****Christina White****Ashley Wyatt, CNP, MS, BSN, RN**

Summa Health Leadership

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President, Akron and St. Thomas Campuses

Michael Hughes, M.D.

President, Barberton Campus

Tammy Scarborough, MBA

President, Ambulatory Care and Clinical Service Lines

Margaret Sweigert, RN, MBA

Vice President, Service lines/Ambulatory Operations

Gilbert Padula, M.D.

Medical Director, Oncology Service Line

Desiree Doncals, M.D.

Medical Director, Radiation Oncology

Sameer Mahesh, M.D.

Medical Director, Hematology Oncology and Oncology Care Model

Barb Saylor, MSN, RN

System Director, Oncology Service Line

In Our Patients' Own Words

Kathleen Wagner, Lung Cancer

"This cancer taught me how important it is to have those screenings done."



Marv Hodges, Throat Cancer

"When you speak about the care that was provided to me at Summa, excellent, very personable. You talk about bedside manner, Dr. Desai gets an A plus plus."





For more information, visit
summahealth.org/cancer
or call **800.237.8662**.