

2020 Lecture Series Planning Information

Thank You!

We thank you for your help in planning our 2020 lectures for both **Medical and Surgical Oncology** and for **RN and Allied Health**. Last year's lectures were some of the best that we've had, and—with your knowledge and expertise—we hope to make 2020's lectures even better.

**Medical and
Surgical Oncology**

**RN *and* 
Allied Health**

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2020 Lecture Planning Criteria

The types of information that guide our thinking for planning the 2020 Telehealth lectures series are the following:

Specific Demographics – Gender, race, etc. The desire is to have our presenters represent the demographic makeup of our audience—and of cancer patients in North Carolina. This way, different perspectives on any given topic will be available to North Carolina’s oncology professionals.

NC Statistics on prevalence of different types of cancer. These statistics can be accessed at

- <https://schs.dph.ncdhhs.gov/data/cancer.cfm>.

Feedback from Previous Lectures – Series Specific.

2019 Participant Survey Results.

We would prefer not to repeat past topics for 18-24 months. Exceptions can be made when crossing from one series to another, with: different presenter, different angle, and a few months intervening between the use of the topic.

The lectures should be topical.

Feedback from LCCC leadership.

Considerations for **Best of ASCO** and **Best of ASH** lecture topics.

Acquiring input from accreditation agencies: School of Nursing, School of Medicine, School of Pharmacy, and Department of Radiation Oncology.

Attendee Feedback (July 2018 through June 2019)

Participants in the 2018 and 2019 **RN and Allied Health** and **Medical and Surgical Oncology** lecture series provided plenty of feedback. What follows is a list of those topics attendees requested during both of the last year's lectures. Where individuals offered further information, these are offered under the topic. Topics are organized alphabetically.

Biomarkers (2)

- Biomarkers and precision medicine, due to the rapid changes in those areas (2)

Brain/CNS Cancers (22)

- Brain cancer and therapy options (2)
- Glioblastoma and new treatments (13)
- Glioblastoma and MRI measurements of cerebral blood flow
- Treatment of glioblastoma; pathology reports--explain in detail meaning of each result; RESIST radiology measurements
- Brain tumor therapy
- CNS disease
- Bone Marrow Transplant
- Neuroendocrine tumors
- Something on chordoma, a rare slow-growing cancer and treatment options are limited.

Breast Cancers (7)

- Breast Cancer (2)
- Adjuvant breast cancer
- Triple negative breast cancer
- More about CDK 4/6 inhibitors as they are used in the breast cancer population.
- Mets breast cancer
- Anti-hormone therapy in breast cancer and effects on fertility, menopause

Caregiver Education (2)

- Caregiver dynamics and online support groups
- Communication between caregivers/patients and health care providers when dealing with cancer care.

Case Studies (2)

- More statistical data and case study references of a patient.

Clinics (3)

- multidisciplinary clinics how to best manage appts, referrals, criteria. How to keep everyone happy! (2)
- Clinical pathway development for esophageal patients

Clinical Trials (11)

- Helping nursing staff understand clinical research and their role (5)
- I work in clinical trials, so patients always want to know what is currently available vs what is in development and why they should try one therapy over another.
- The unique “marriage” of clinical trial operations to the traditional hospital setting.
- clinical trial recruitment
- prostate trials and changes in standard of care
- clinical trials available for GBM patients
- I would appreciate more quality programs like this one on specific cancers, but also more on clinical research issues.

Cognitive Function (3)

- cancer related fatigue and memory problems (2)
- Alterations in memory and concentration associated with chemotherapy treatment.

Diagnostics, Screening, and Assays (7)

- less about research and more clinical indications
- diagnostic/prognostic tools utilizing what's new with molecular findings
- I would be interested in finding out more about liquid biopsies
- low-dose computed tomography (LDCT) screening issues. Medicaid in NC not covering for f/u exams
- I seem to have many patients with lung cancer in my palliative care nurse role. Any information

regarding the detection and treatment of lung cancer would be beneficial.

- screening
- Glioblastoma and MRI techniques

Financial Toxicity (11)

- What to do--specifically, how to interact with providers--if medications are not affordable and provider is not familiar with the pt's insurance benefits
- How to make certain our caregivers are prepared to take care of their loved ones when resources are limited.
- Insurances covering the cost of preventive services
- Challenges with financial needs of patients/ insurance coverage
- Navigating the cost of care and how to offset. discuss how to delve into community resources
- Barriers to healthcare - Medicaid/Medicare denials
- Oral chemotherapy drugs and high copays- how can we assist our patients better (2)

Gastrointestinal Cancers (3)

- GI cancers and relationship to metastasis vs. primary site.
- Pancreatic cancer new trends and immunotherapy
- Why colon cancer is affecting younger population

General Cancer Topics (7)

- General informational sessions about common cancer types, so more adept at a variety of cancer types.
- Would like better understanding of advance vs extensive disease.
- health disparities with other cancers
- Cardio-oncology
- I would love to have more talks though about different cancer types.
- Programs concerning women's health (2)

Genetics and Genomics (7)

- oncotype
- The genetic aspect of cancer is definitely of interest and how the genetics of the cancer or the tumor are driving care.
- would like to learn more about impact on cell DNA / life cycle
- Would love to see a lecture from your geneticists on gene testing and standards
- I would like to have a better understanding of how genomic study results can be best applied to targeted therapy treatments for brain tumor patients.
- genetic testing

Genitourinary Cancers (5)

- Bladder cancer--update on treatment options (2)
- Future of prostate cancer treatment (2)
- Prostate cancer treatment options. Who to treat and who to continue monitoring.

Gynecology Cancers (11)

- Gyn/onc cancers and new available treatments (9)
- Ovarian cancer / HPV lecture
- Treatment options for metastatic gyn/onc patients

Head and Neck Cancers (6)

- Head & Neck Cancer (4)
- Thyroid cancers and environmental risk factors.
- managing complications of head and neck cancer treatments

Hematology Cancers (13)

- Acute Myeloid Leukemia (AML)
- Leukemia, lymphoma (7)
- malignant heme and newest treatment (4)
- Monoclonal gammopathy of undetermined significance (MGUS)

Integrative Medicine/Complementary Alternative Medicine (20)

- Chemo and Complementary Alternative Medicine (CAM) (3)
- Stress management
- managing stress during cancer treatment; depression and cancer treatment
- Another lecture on herbal medications
- Supplements—Would love a course on supplements in oncology patients and how to advise patients. Would like to see more about nutritional and supplemental gaps and specific options and offerings that may benefit patients, and how to respond in supportive conversations with patients (5)
- Nutritional supplements for head and neck patients.
- Discuss other common herbs used in this population and how they may interact with cancer treatments.
- Medical evidence relating to the risks and benefits of marijuana and cannabinoid derivatives. Risks/benefits as alternative to opioid usage (7)
- I think it would be great to have a specialist speak about natural alternatives like apple cider vinegar and ashwagandha root and turmeric etc.

Lineberger Comprehensive Cancer Center (2)

- Update on the latest LCCC successes
- How UNC and/or Lineberger is using data analytics to affect treatment decisions and outcomes.

Lung and Respiratory Cancers (6)

- Esophageal cancer (2)
- Lung- Nursing focused lecture on lung cancer markers and treatments and staging of lung cancer. (2)
- Non-small cell lung cancer (NSCLC)
- Newer data in lung cancer treatment from a medical oncology perspective.

Medical Conferences (3)

- The wrap ups from national meeting are excellent
- Would like San Antonio Breast and others (2)

Miscellaneous (17)

- Cancer prevention measures (2)
- anything to improve safety and outcomes
- National Comprehensive Cancer Network (NCCN) updates
- Any subject around zero harm in treating cancer.
- Great subjects that bring awareness to certain kinds of cancer
- Any general informational sessions
- I am looking forward to some of the 101 class opportunities to aid in expanding my knowledge of this subject
- Reading bone marrow reports
- Courses on autoimmune issues
- General informational sessions about common cancer types, so more adept at a variety of cancer types.
- Would like better understanding of advance vs extensive disease.
- health disparities with other cancers
- Cardio-oncology
- I would love to have more talks though about different cancer types.
- Programs concerning women's health (2)

Neurosciences (5)

- Neuro-oncology –standard of care--MRI techniques to follow for progression
- It would be helpful to offer courses on how to help patients with depression and anxiety as a result of chronic disease/cancer care and diagnosis. (2)

Nurse Navigation (5)

- Role of the Nurse Navigator
- Nurse Navigation from other academic institutions comparison and case manager updates
- Nurse Navigation metrics (2)
- Nurse Navigation or clinical trials

Nursing & Patient Care (7)

- Professionalism in Nursing. Unfortunately, nursing has become a job and not a career. We have what I like to call “check box nurses” who ensure they chart what is needed per orders but forget that they can also critically think and problem solve. Some patient issues can be solved under the purview of nursing interventions.
- Anything useful for Research Nurses, mainly Oncology.
- More specific interventions
- Sessions related to interprofessional healthcare team.
- Process improvement... Anyone that can come in and talk about what we are doing to reduce waste in Health Care, on every level.
- Counseling patients with bad outcomes
- Continue to provide ideas and suggestions with data to improve patient care

Nutrition & Exercise (14)

- managing weight loss
- Incorporating exercise into the cancer regimen—how to make exercise more recognized as a complementary treatment. Recognizing exercise as a form of rehabilitation and prevention. More specific exercise recommendations. (3)
- nutrition and cancer (4)
- Information on diet and sugar intake would be very relevant for my area.
- I am interested in learning how patients can maintain good nutrition during and after cancer treatment.
- maybe a program on ways to combat chemotherapy-related fatigue (2)
- I would like to see more on how nutrition/sugar plays into cancer progression/remission etc
- I'd love to know more about the metabolic approach to cancer, specifically if there is any knowledge on the UNC faculty about studies done recently evaluating the concept of intermittent fasting and/or ketogenic eating while receiving chemotherapy. I am hearing there is data out there to speak to this. I'd also been interested in knowing whether the NC Cancer Hospital leadership has considered a shift in the nutritional offerings you provide to

cancer patients undergoing chemotherapy and radiation therapy. It seems we do a disservice to provide packaged and processed and unnatural foods. The typical American diet is contributing to the cancer epidemic and it would seem we could and should do a better job in our clinics of modeling healthier choices. Some say patients want comfort foods like Oreos and cheesy crackers, but that doesn't seem the right answer. They might also want cigarettes but we don't allow them to smoke in our clinics. It would be more expensive and perhaps less practical, but if there is anyone doing research on this topic I'd find that to be a problem we should be solving collectively, and would love to hear more.

Oncology Emergencies (12)

- Adverse event assessment
- Serious Adverse Events (SAE) reporting
- dealing with oncologic emergencies (for allied health and nurses) for OCN renewal (10)

Palliative Care and Hospice (19)

- Appropriateness of the nurse to discuss with patient palliative/hospice care—usually RNs wait until after the doctor brings up the conversation.
- Having difficult conversations with cancer-directed treatments are no longer effective/appropriate for a patient (2)
- Navigating tricky family dynamics and patient/family expectations.
- When to stop cancer-directed therapies (more harm than good): A Palliative Care Approach
- Integrating palliative care earlier and more often for cancer patients and their families (2)
- How has the hospice discussion changed in light of new immunotherapy options? Are patients less likely to receive the hospice support they need at end of life?
- Assisted suicide/Right to die (4)

Pathology (5)

- Pathology 101
- Specifics of path report and what they mean
- Infectious diseases—specifically drug updates, use

of letermovir, vaccine updates

- The progression of the disease. Is it different if mets from breast cancer and does tx.vary?
- Vaccine therapy for glioblastoma

Patient Education (8)

- Specific expectations for patients
- Nursing related for patient education
- Patient compliance with oral chemo drugs (2)
- How to motivate patients to be more involved
- Community resources for support for patients post treatment (3)

Patients- Rural Patient Care (2)

- Improvement of rural health
- Oncology home care needs in outlying communities

Pediatrics (3)

- Information concerning pediatric oncology (2)

Pharmaceuticals (9)

- As a pharmacist, detailed coverage of pharmacologic treatment modalities, as well as covering in-depth, how to counsel the affected patient population would be beneficial
- Explain how the body/drugs work
- New chemotherapy drugs
- Medications used to treat menopause
- Difference between Granulocyte-colony stimulating factor (G-CSF) agents available regarding best effect and type of cancer patient
- Medications used to treat menopause
- Handling hazardous drugs in healthcare (USP 800)
- Biosimilars

Provider Fatigue/Burnout (5)

- Nursing incivility, burn-out, therapeutic relationship
- Compassion fatigue and burnout in oncology.
- Stress in the workplace
- Self care

Research and Data Analytics (13)

- Research 101 and importance of quality data (3)
- Responsibilities of cancer research nurses and clinical research supportive care (2)
- The use of Electronic Health Record (EHR) in oncology and the application of big data?
- Use of data analytics in informing cancer treatments (2)
- Understanding the labs associated with the diagnosis of Multiple Myeloma.
- The importance of non-drug and translational studies. Our group works in that area with Dr. Carey and Dr. Serody, and I know there are other groups doing non-drug trials within UNC. Be interesting to highlight that work.

Sarcomas/Solid Cancers (4)

- molecular path updates on solid/liquid cancer
- Soft tissue sarcoma treatment options, survival rates and long-term side effects.

Sexuality and Fertility (4)

- Fertility preservation
- Sexuality, cancer, & chemo treatments (2)
- Sex awareness, clinical diagnosis and pt management”

Skin Cancers (8)

- Skin cancers and Melanoma. I would like good photos of how to distinguish them.
- Melanoma (4)
- Would like info on MDS treatments.
- Multiple Myeloma from an oncology nurse or clinical nurse specialist

Staging of Cancers (5)

- Audited charts and found inconsistencies in charting re: Cancer staging. What does it mean to lay people, ie Stage IV Pancreatic, Stage II Breast etc.
- Baseline staging guidelines in oncology, small cell lung cancer
- Treatment options for stage III and IV lung cancer patients.

Surgery (2)

- Management of chronic GVHD
- Surgery management as to follow up after surgery, freq, length. How you manage J tube feeds, products, etc.

Survivorship (17)

- Survivorship CEU's for OCN renewal (2)
- Increasing compliance in survivorship programs. Is there a local panel or symposium we can all get together and network?
- Survivorship Care Plans and all of its challenges

Therapy- CAR T (9)

- Cart T and side effect management (3)
- How CAR T design influences longevity of cells in vivo and therapeutic outcome.
- Cart T clinical trial options here at UNC
- CAR-T and Stem Cell Transplant

Therapy- Chemotherapy (8)

- Chemo administration inconsistencies
- Oral chemotherapy and adherence (4)
- Current recommendations for chemotherapy side effects and symptom management (2)
- CNS involvement and IT chemo

Therapy- Combined/Concomitant Therapies (3)

- Concurrent chemotherapy and radiation, discussing the efficacy of this dual modality approach, the importance of starting both on the same day, etc. (2)
- Specific concurrent chemo/RT regimens.

Therapy- Immunotherapy (30)

- Basics of immunotherapy and then how drug groups work
- Immunology treatments: which one to choose and why, why draw the particular labs that are drawn, percentage of side effects where treatment has to be stopped (4)
- New immunotherapy and side effects that are unique to these therapies (ie side effects with combo immunotherapy and chemo, don't

use steroids with immunotherapy as it would decrease effectiveness) (6)

- Monitoring and management of thyroid abnormalities, esp. immunotherapy patients
- Description and management of endocrine dysfunction, particularly thyroid, related to immunotherapy. (2)
- Long-term effects these might have on patients

Therapy- Radiation (16)

- Radiation Oncology/Radiation Therapy (12)
- Proton Beam randomized trials (2)
- Proton treatment would be useful as this is a newer technology that clearly shows promise.

Therapy- Targeted (1)

- role of targeted therapies in oncology

Treatment and Symptom Management (17)

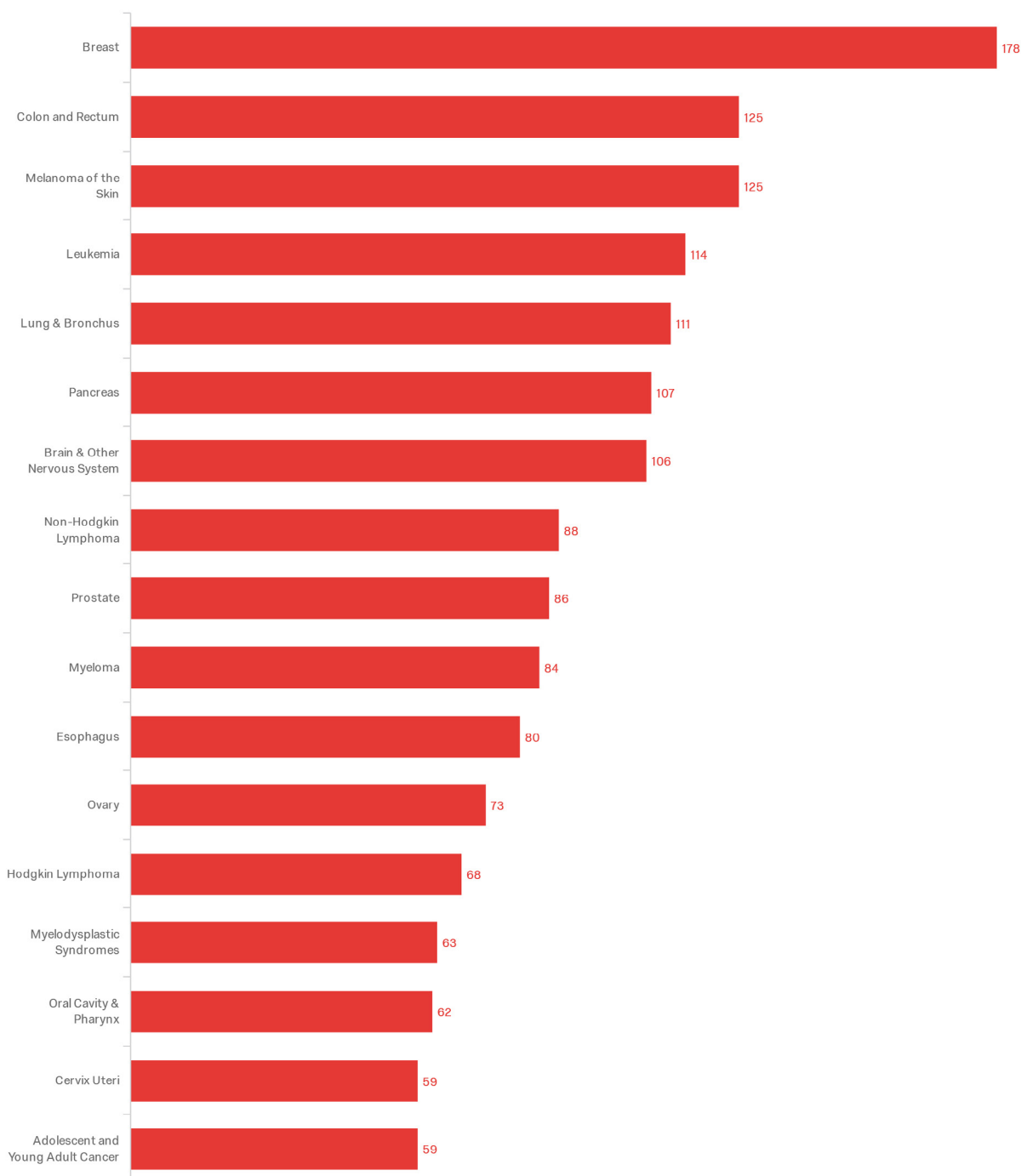
- Divide types of immune responses up to discuss one at each teleconference in more detail
- Rapidly changing treatments. Perhaps bridge research into it. There are many trials available for some of these diseases. There is a disconnect with the importance of trials with nursing.
- New modalities of treatment, patient education, home care, quick reference guides for care givers/providers (2)
- Overviews of the current preferred treatments, reasons, and expected new options are helpful to me to increase my comprehension with new protocols in GI, GU, Lung, or Head & Neck
- Symptom management/education (3)
- trismus, lymphedema mgt
- Novel pain management options/emerging non-opioid therapies.
- Support patient's through treatment options (2)
- Advanced Care Planning
- maybe something of side effect treatment for patients taking aromatase inhibitors
- Ongoing immuno-oncology strategies (2)

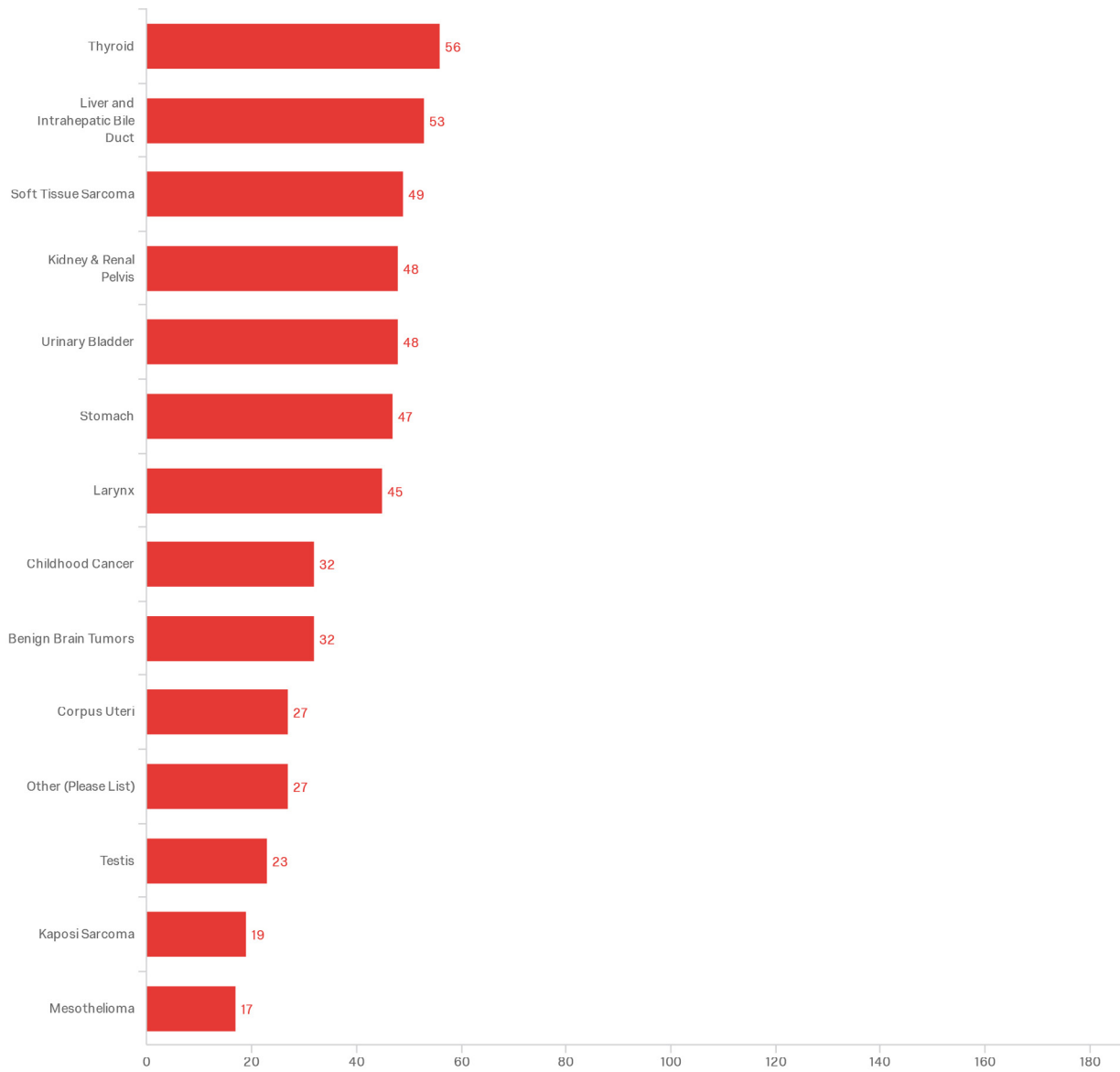
2019 Participant Survey Feedback

In July 2019, the UNC Cancer Network asked participants to answer a short, nine-question survey. Over 100 people did, providing us with these snapshots of their preferences for the 2020 lecture series.

We asked: *“What type(s) of cancer are you MOST interested in learning more about? Click on all that apply.”*

They replied:





“Other” Responses:

all – work with monitoring and compliance

All of them. I realize this is not too helpful, but advances in any will lead to advances in many

benign heme

Bone cancer

Bone sarcoma

Cancer in the patients with serious mental illness; how to effectively screen

Cancers associated with viral infections

cancers with disproportionate rates, mortality, access and quality of care by race, gender, class, etc.

Cholangiocarcinoma- Biliary/Bile Duct

Chordoma

GIST

Head and Neck

Hereditary cancer

How do you select, all are intriguing. My husband died of metastatic prostate & I spent 4 yrs learning about that type while we lived it.

I find value in all of the above since my job responsibility is to provide tissue samples and/or data to investigators studying any cancer.

importance of tobacco cessation in the oncology pt

Myeloproliferative Neoplasms

none

Prevention

Rare uterine cancers

Spinal Cord tumors

Stem cell transplantable tumors

survivorship and late effects

thymoma

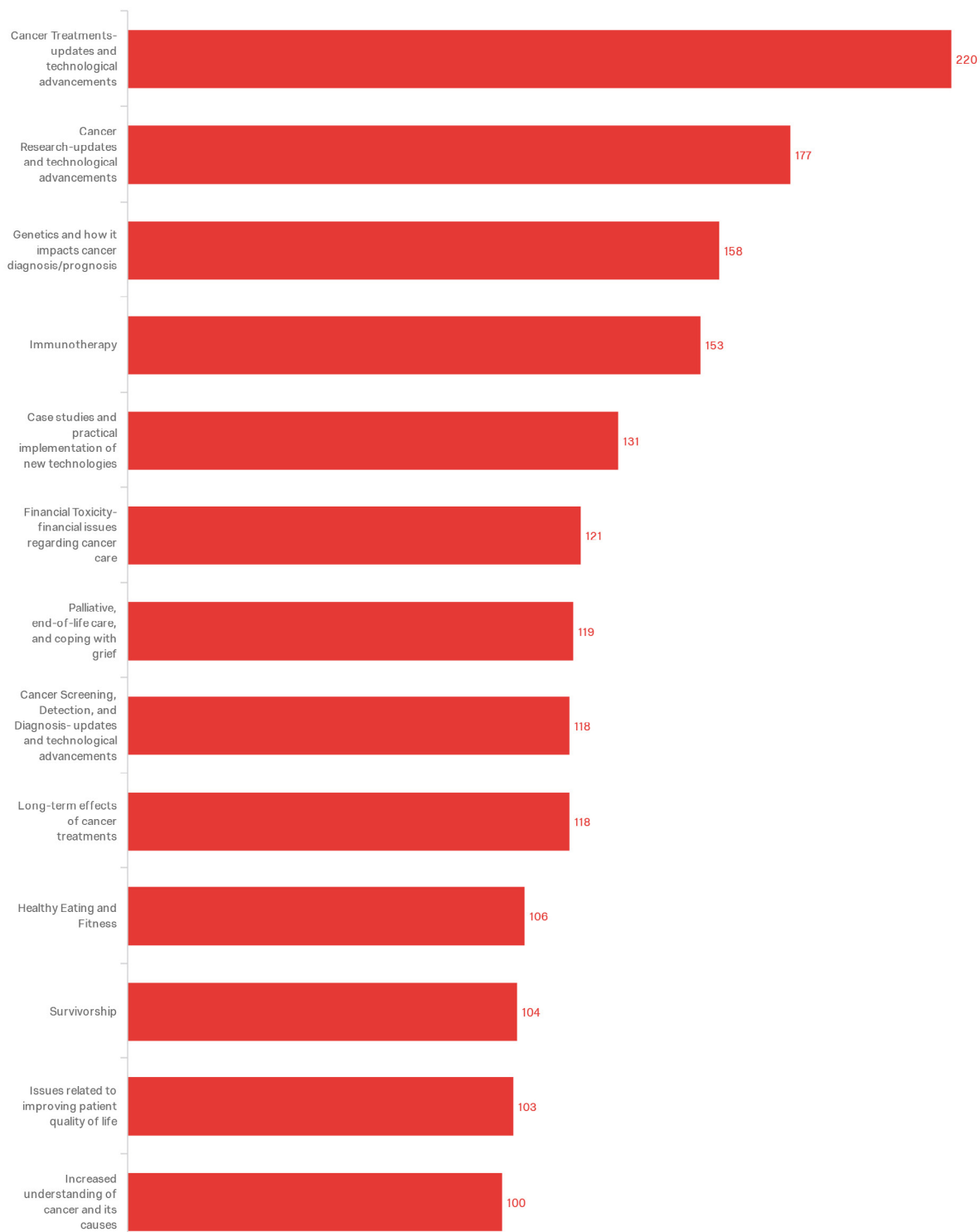
Tobacco prevention and control, cancer prevention and control (I work in prevention/control, not bioscience/medical/treatment sides of cancer

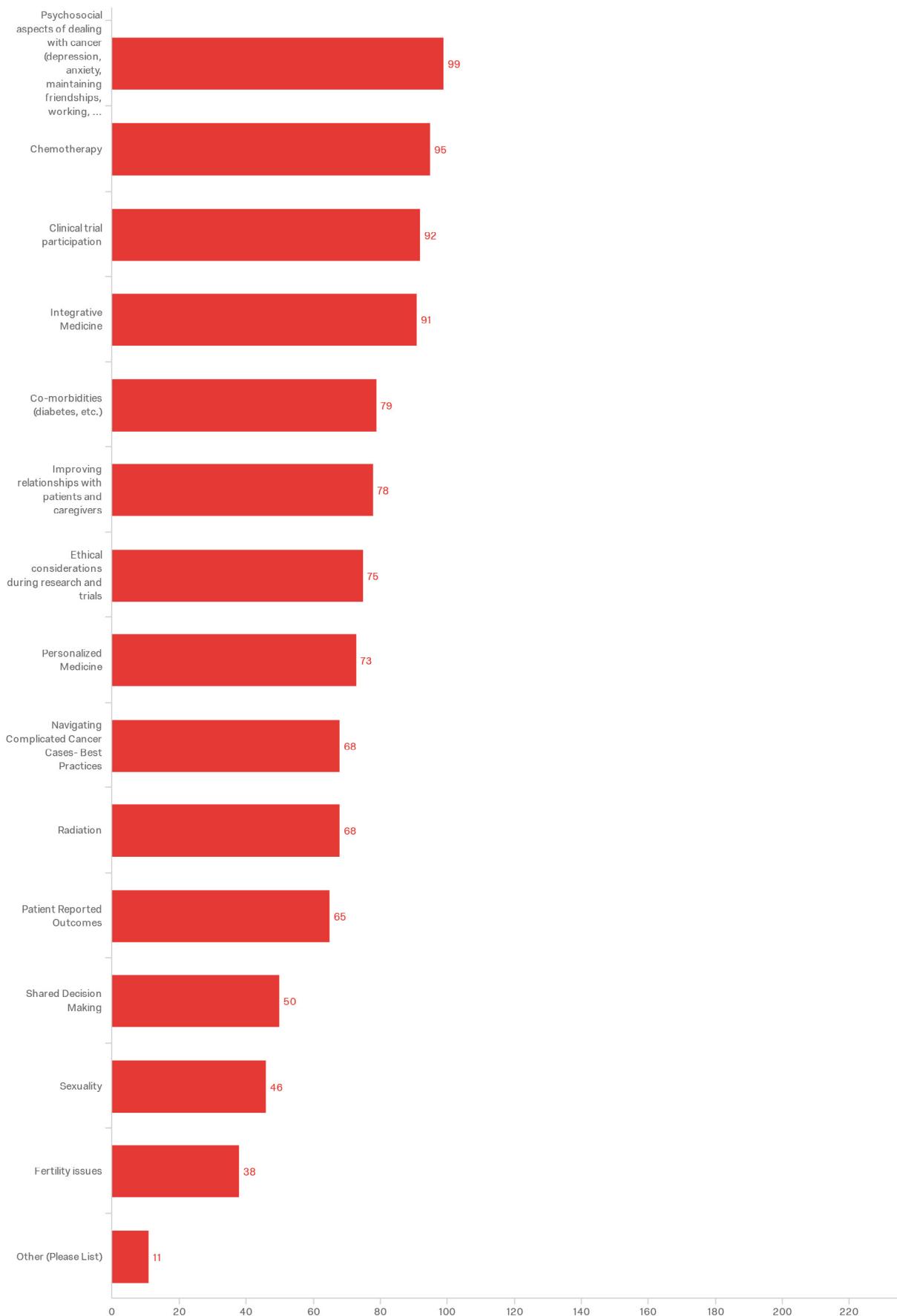
uterine

uveal melanoma

We asked: “Which of the following cancer-related issues would you *MOST* like to learn more about? Please click on all that apply.”

They replied:





“Other” Responses:

Analytic methods in cancer research

Artificial intelligence in medicine

Brief intervention strategies that can be done in clinic related to coping with psychosocial distress such as CBT, ACT, DBT, and maybe biofeedback.

Cell therapies, cancer vaccines

Epidemiology

GBM other brain tumors / cancers – any new treatment options supportive therapies pain management options for cancer patients

geriatric cancer treatment and considerations specific to geriatric populations

HCC and stomach cancer – anyone from GI Medical Oncology

How Full and Whole Spectrum Hemp Extract (CBD) relieves nausea in chemotherapy patients

I think we should definitely have a more robust Palliative Care lecture series about this. Having a panel of palliative care providers would be amazing.

I would like an Oncologist who specializes in geriatric care to discuss decision making processes with both the medical team and the patient and family. I am getting more interested in the aging population and how we are assisting them with a balance of quality versus quantity.

I would like someone to do: best of San Antonio breast cancer conference after the December meeting, And best of Ash, best of ASCO in May

Long term survival of advanced cancer diagnosis and the impact it has on productivity in the work force. More and more people being diagnosed and surviving is becoming something that needs to be better understood and addressed.

Military exposure to PCB's , agent orange, mustard gas, nerve gas, etc. and link to cancer. esp. at Ft. MacClellan AL.; and OKINAWA before the chemical weapons were removed in 1971 during Project Red Hat. -- effects on wives and future offspring.

Minority health care biases/Racial and ethnic disparities in health care, please.

More emphasis on surgical therapy of lung cancer – Navigating the relationship between nurses and providers

palliative care support

Patients Out of Time: Medical Cannabis and Cannabinoid Therapeutics, The Endocannabinoid System

Prevention interventions, cancer prevention, health messages to change behavior

Race-specific inequities in cancer care and outcomes

Social work or CCSP or oncology team member well-versed in navigation of undocumented, uninsured, Spanish speaking only patients through the complexities of cancer treatment. These visits are SO long for patients, our interpreters are OUTSTANDING – are we doing it right? Are we connecting them with appropriate resources and/or what can we link them to with no financial resources.

toxic chemical exposure linked to cancer and effects on future generations altered DNA in victims, etc.

We asked: “Are there specific speakers you would like to see during the 2020 UNC Cancer Network lecture series? If so, please provide names below.”

They replied:

A Geriatric Oncologist
Allison Lazard, Health Communication and Visual Communication
Ashley Leak-Bryant, Exercise Interventions for Cancer Patients or other topic
Ben Calvo–cholangiocarcinoma
Carey, breast Pico, personalized medicine
Glover, CAR T trials Ron Chen, outcomes research
Carl June
Chad Pecot, MD – nanoparticle-based platforms, has this been forgotten or are there new developments? Melina Kibbe, MD – What new therapies are available for vascular diseases?
David Bartlett, Duke University – exercise oncology immunology Stephen Hursting
David Page John Gurdon Fiona Watt
Dr. Basch
Dr. Catherine Coombs–Updates in chronic leukemia and APL –A Neurosurgeon/ oncologist to discuss spinal tumors
Dr. Peter Voorhees
Dr. Chera from UNC Radiation Oncology
Dr. David Jones (former UNC graduate) is an internationally known thoracic surgeon at Memorial Sloan Kettering
Dr. Don Rosenstin from UNC CCSP
Dr. Gianpietro Dotti, Dr. Jonathan Serody
Dr. Grimm from UNC School of Nursing about the burden of taking care of terminally ill patients
Dr. Lisa Carey
Dr. Lisa Carey Dr. Claire Dees
Dr. Ollila – Breast
Dr. Patrick Thompson or Dr. Andrew Smitherman on screening for asymptomatic patients with Li Fraumeni syndrome.
Dr. Rosenstein
Dr. Volker Steiber, (Novant) Lung Cancer
Dr. Dawn Moose (Novant) Prostate emerging

technology/changes Dr. Brown (Wake Forest)
Breast Sharon Gentry RN Breast Navigation

Dr. Will Eward and Dr. Brian Brigman from the Sarcoma unit from Duke University.

Dr. William Lyle– To talk about Breast cancer Reconstruction w/ allograft.

Embree Duffy spoke at the 2019 LLS Gala. She is only a teenager, but a phenomenal public speaker about her experience. She exhibited more maturity and poise than many adults, all while still being a kid. Not necessarily a lecturer, but perhaps elsewhere in the program. <https://www.wral.com/how-to-talk-to-kids-about-cancer-a-raleigh-teen-sets-some-ground-rules-in-video-that-s-racking-up-views/18275219/>

Ethan Basch/Angela Stover on PROs in clinical care. This would be of interest for all cancer patients and providers.

Eva Vertes Jay Bradner William Li

George Hucks, MD CAR–T in childhood cancers

Hyman Muss MD and Kirsten Nyrop on work and trials being done on our geriatric population as well as work on their “walking studies” and the improvement shown in breast cancer survivorship for those who stayed active into and after active treatment.

Jennifer Spring RD Justin Yopp Leeza Park

Jonathan Serody: CAR T Lisa Carey: Single Hormone Positive Breast Cancers Ethan Basch: What UNC is doing in PRO for Oncology

Juan Marugan, NCATS, development of the antimetastatic agent metarrestin

Katherine Aragon, Communication Skills for Advance Care Planning

Leeza Park Lauren Lux / Andrew Smitherman

Lewis Cantley, Elizabeth Jaffee, Jill Biden, Padmanee Sharma

More palliative care team members

Paolo Gherig

Paul Armistead, MD, PhD---LOVED his Immunotherapy 101 course

Robert Gatenby – Moffit Cancer Center
Evolutionary dynamics in cancer immunotherapy: a clinical perspective
Sorger Peter – Harvard Medical School, Quantitative Systems Pharmacology
Measuring and modeling variability in drug response in cells, tissues and clinical trials

Ron Chisom, Founder and Director of The People's Institute for Survival and Beyond, New Orleans, on how racism has been constructed in US and how It can be deconstructed. Deena Hayes, Founder and Director of the Racial Equity Institute, Greensboro, NC on groundwater analysis of institutional racism across sectors in US and the imperative of engaging communities of color in designing multidisciplinary intervention research.

Stephan Moll as a speaker for an update on the management of VTE in cancer patients is a great topic.

Stitzenberg MD SRA Madeuwke MD SRA
Hackman SRE

There is an excellent chaplain at UNC who spoke to the Lay Navigator class when we were onboarded. I was enthralled by his talk – he would be excellent for coping with the end of life discussion

Trevor Hackman Dr Kim and pancreatic cancer / EPI , enzyme replacement

Trevor Jolly, anything in geriatrics oncology, perhaps breast. Hannah Sanoff, anything in GI oncology.

Zeidner- AML Foster- ALL Tuchman- Myeloma

We asked: *“Is there recent or emerging research that you feel should be presented by the UNC Cancer Network in 2020?”*

They replied:

Actually, my lab has been taking the lead in developing and applying cutting edge multi-omics technology to discover new-generation biomarkers for predicting personal therapeutic response and prognosis. We have published three papers on high impact journals in 2018 and 2019. I'll be happy to share the progresses.

Alan Rosenbaum, MD – How is he using AI and machine learning to improve Ultrasound, is his work different from Regina Barzilay's work?

ASCO, ASH, EHA updates

Bacteriophages relational impacts DNA sequencing Nano-medicine

cancer vaccines

Car T cell therapy

CAR-T immunotherapy trials at UNC

Changes in Her2 to Stage III Aromatase Inhibitors Liquid Biopsy Specific Clinical Trial Information Integrated Treatments Clusters – What they Mean & How to Report

Combining immunotherapy with radiation

CRISPR/Cas9 impacts on cancer treatment

Drs. Rosenstein, Park and Yopp's study on widowed parenthood

EMR overdrive-when does Mychart become

too much like texting-are there needs for different boundaries with patients and who should set those to protect the doctor patient relationship?

Exosomes microRNA

exercise during treatment

Financial Toxicity and Financial Navigation.

Geriatric Oncology – specifically ASCO/ NCCN recommendations to include functional assessments as part of shared decision-making

Given NCI's new requirement for comprehensive cancer centers to have a Community Outreach and Engagement Core, our network would gain immensely by offering presentations to inform the COE's Steering Committee members, scientists and T32 Fellows engaged in cancer health disparities research, as well as their current and potential community partners.

Highlights of clinical trials

Hipech

How to prevent cancers of the digestive system.

I am hearing more about proton therapy for breast cancer patients. Perhaps information from Dr Marks or Dr. Gupta on support for this process. How does this differ from radiation therapy currently offered.

I would love to hear more about UNC's latest research findings and treatments.

Immunoscore Colon Classification of Bladder Cancer Clinical Trials using proven treatment agents across different primary tumor sites

Immunotherapy and how this has changed cancer care

Implementing nursing research at the bedside

Integration of cancer services for the improvement of cancer care.

Machine learning in predicting treatments and outcomes

molecular testing

more about the gastrointestinal microbiome

More tobacco prevention and control and policy research

Multiple Myeloma therapy

New therapies and treatment options for bladder cancer.

nutrition and diet preventative for non recurrence of cancer – are there studies or stats?

Nutritional support Prophylactic measures for cancers

Oncology rehabilitation

Oncolytic viruses

Our own work improving colonoscopy might be of interest as it uses advanced computer techniques including AI

Our recent research in “cancer evolution and adaptive strategy” will be interesting to our colleagues Modeling tumor evolution to predict overall survival for patients with metastatic colorectal cancer

Patient engagement in research is a new emerging topic that is good to get out to a broader audience.

Personalized medicine

Precision medicine

Proteomics

proton therapy

Quadruple therapy for Multiple Myeloma Cancer

Rare cancers

Research and treatment for glioblastoma, meningioma and anaplastic astrocytoma

Research on young people with breast cancer + long-term management, especially if their time on tamoxifen ends around the time women typically start getting screened for breast cancer
How to screen for secondary cancers (i.e. bone cancer, brain tumors)

role of palliative care in cancer care, outcomes in treating geriatric populations, financial toxicity

role of vitamin D in cancer – necessary to treat deficiencies during treatment? indication for high dose repletion? irrelevant? how about how to maintain appropriate level of physical exercise during cancer treatment to combat fatigue, insomnia, depression, weakness, etc?

Survivorship, PTSD, working through relationships, sex, planning to have children after you've had cancer treatment

Targeted therapies and molecular/genetic testing for treatment selection

Targeted therapies for breast cancer HER2-positive. And also the triple negative.

Technology and innovation in cancer

The use of viruses in treatment of certain cancers.

Update on transplants for hematologic malignant diseases

Updates on prostate cancer screening and Dx

Using exosomes in cancer treatment/diagnostics

We (Angela Stover, Ethan Basch, et al.) are completing a 50-site RCT in community oncology practices to determine if PROs improve survival, ER visits, and quality of life. 1,061/1,200 chemotherapy patients have been enrolled as of mid-July. Recruitment will probably be closed by the fall.

Where did IBM Watson go? We started it and then there is no talk about its applications.

Years ago, in my undergrad, I wrote a paper about how the HIV virus could be treated to balance out the excessive white blood cells in Leukemia patients. Months after I wrote this paper, I did some research and found out that this method was actually applied, and it helped save a little girl's life, who had stage 4 leukemia. I would be interested to see if this method was implemented in mainstream treatment methods.

We asked: *“Are there any additional ways in which our presentations can be improved?”*

They replied:

Case based presentations. Contrasting cases to teach key concepts. Pre and post tests.

Consider offering at different times, besides the middle of the day. I work nights and it is often difficult to get up midday to watch a live session.

continue to archive presentations

Continue your amazing presentations!

Find us more hours in the day to reap benefit from them ;)

For all presentations, invite and offer a stipend to a NC community leader to serve as a reactor.

Give a little more time for folks to answer the questions that involve polling—you move too fast!

Have a slide deck that can be downloaded and allow for questions to be submitted to Presenter prior to program.

I have trouble knowing when are being presented, and how to sign up for them

I like how they are set now; prefer each speaker to leave at least 5 minutes for Q&A at the end.

I only saw one lecture and I loved it. Until I view more I will reply with better comments.

I think one way to bring improvement, would be to add a guest viewing mode. This would attract more viewers, who want to learn but don't want to create a login. However, the login option should still be kept for those looking for CE credits.

I think they are excellent.

I'd like to be able to do the evaluation and print off my CE the same day as the talk. I work part time, so it's a pain to have to try to get done the next day after the roster is turned in and Info emails sent out. I wish there was like a better way to streamline the process so it doesn't take so long

Include more case studies

It's a good system.

Keep under 1 hour

More advertising! Advertising on instagram, via email

More time for questions

reassess mechanisms for tumor board involvement of external docs

sometimes the lectures are too scientific – hard to follow.

Streaming of sessions for those unable to attend in person Lecture Capture for retrieval or sharing of event

The presentations are great as is.

They are excellent. Just need to keep on keeping on.

We are encouraging our allied health students to view these sessions (including nursing students and other allied health professionals). It is great when the speaker acknowledges how that information might relate to their learning and transition to practice. This is hard to do with such a varied audience, of course, but very helpful.

When talking about financial toxicity maybe include other teams not direct care but financial teams like financial counselors (FC), Charity Care (FAU), Medical Assistance (MAC), Pharmacy Assistance both PAP and MAP.

You are doing a wonderful job!

You have done a great job. The format is great!

We asked: *“Please provide us with any additional feedback that you feel would be helpful as we plan for future lectures.”*

They replied:

Cancer is affecting more and more people everyday. Advance therapies and treatments are always arising and emerging. Being able to stay abreast of these new technologies and therapies and how they affect patients in their day to day lives will be helpful, as it will allow us to see their world more clearly.

Consider broadening the CE certificate types to apply to other accrediting bodies. For example, my professional credentials must be maintained through 2 organizations: American Health Information Management Association (AHIMA) and National Cancer Registrars Association (NCRA).

continue with and expand the best of ASCO and best of ASH lectures

Have enjoyed the ones I have attended

I don't have much in the way of specific suggestions as I'm not a physician, seems like your speakers/topics are timely and well chosen!

I feel the incorporation of questions provided via texting from my students is very helpful, and makes them feel included via the live feed presentations

I have learned a great deal from the previous lectures. Continue please to provide lectures

I have never attended a UNC Cancer lecture series before. Not sure what it encompasses. But working in Pre-Award does the series provide a listing of proposal announcement numbers PIs can look to apply for, should they want to get started?

I sincerely appreciate these lectures and hope you are encouraged that you are doing a wonderful job. Thank you so much!!

I think it would be cool to have a section which is for non-medical viewers, where they can select lectures and easily view them.

I'd like to see more information/lectures on the use of natural medicines/remedies in treatment of cancers.

I'm neither a clinician nor a researcher... so I don't think I am your intended audience. But I'm happy to help y'all think about how to strategically amplify this program for greater impact.

It is hard to hold a lecture that does not go “above the nurse level” and still interest other colleagues. The Immunology lecture was very

involved for an RN.

Keep up the great work! Even though I rarely attend, still like seeing the topics.

Overall you are doing a good job.

Overall, the lectures are great. so appreciative for the contact hours.

Panel discussions with case studies

Parking a big issue

Promote LCCC more in local media circles to drive public interests in treatment development, and resources for those affected, both during treatment and post treatment. Resources for those who face the higher stage diagnosis and their families who have to deal with it. Develop further the public knowledge that a cancer diagnosis is not a final as it once was.

Provide information that will help nursing students as they provide care to patients with cancer

Really appreciate the ability to now do these on our own time schedules and still receive CEU credit-this is a game changer for me when I renew my certification. I'd love some updates on what we are doing to recruit underrepresented groups for research, spiritual support other than Judeo-Christian, and anything on the cold packs for use to reduce neuropathy.

Really enjoy the lectures so glad they're going to continue in 2020.

Schedule these presentations at lunchtime so that community members and practitioners, who have jobs, can attend in-person or through live webinars.

Sometimes the audio visuals have glitches, sometimes not able to answer the assessment questions via text. Have the microphone attached to the speaker, so that when they move, the transmission doesn't cut off.

Thank you for providing these valuable presentations! They have all been terrific. (2)

Thanks for your efforts with continuing education!

The series have been good so far. (2)

This is my first few months at UNC so I cannot comment yet

Tim Poe is Outstanding in his role as Host Moderator and seems to put people at ease.

Try to start on time and don't go over 1 hr.

UNC Cancer Hospital care was outstanding starting with Matt Milowsky and his staff, plus the oncology nurses, amazing people.. I would think vital to that care would be support for the caregivers themselves, including the nurses and families.

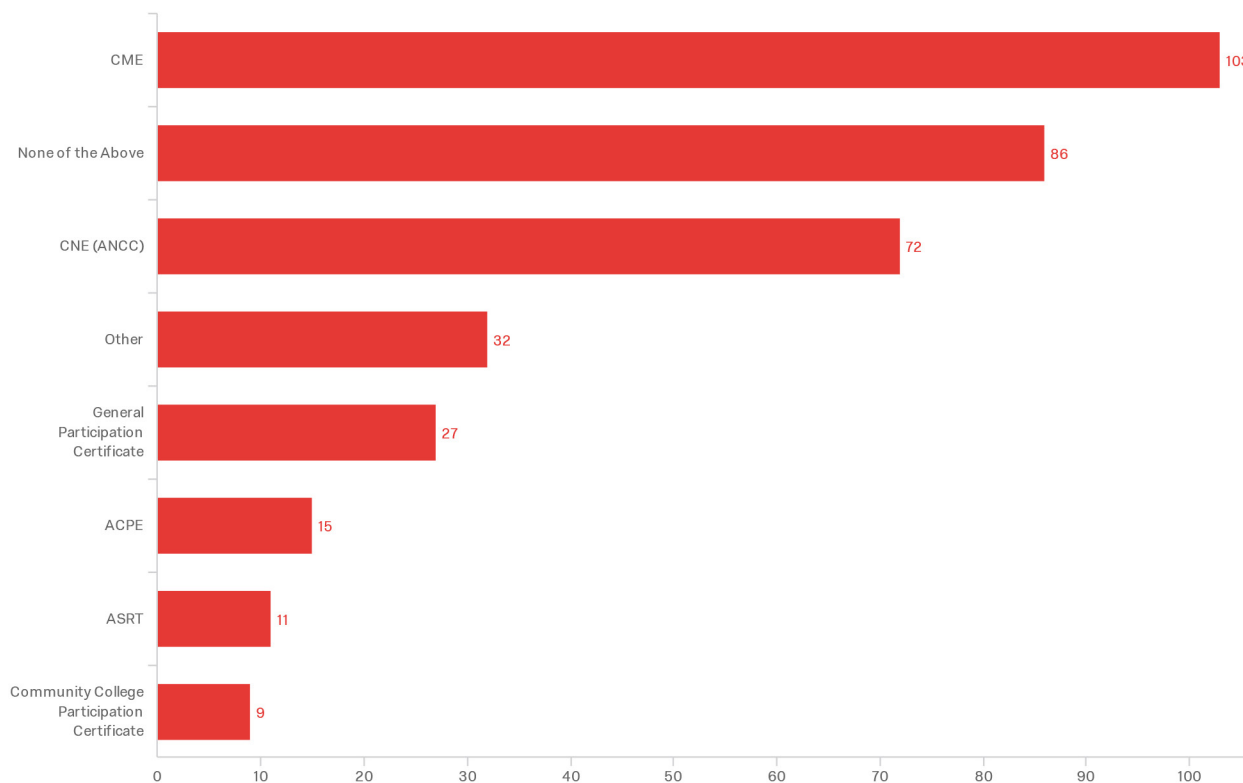
We are working to grow an oncology physical/ occupational and speech therapy program at our facility and would love any continuing education information that would help us improve these services to our community.

Y'all have excellent programs. Thank you!!

Your lectures are a wonderful learning resource.
your program is awesome and very well planned and presented

We asked: "Which type of CE credit are you most interested in?"

They replied:



"Other" Responses:

AARC
ABIM MOC
ACRP (Association of Clinical Research Professionals) (3)
CHES (Certified Health Education Specialist) applicable to PT
ASHA
CE for CCRP or CCRC (2)
CE for Registered Dietitians
CE THROUGH NCRA
CEUs for Social Workers (3)
CHES, CPH

CME for CTR
Continuing Legal Education
Continuing Professional Education CPEs for dietitians
MDCB
MOC
NBCC for counselors
Pharmacist
Pharmacy Technician
Psychologists CE credits approved by the NC psychology board (3)
RN

UNC Cancer Network Suggestions

During the past year, several individuals were presented to us as potential speakers. Likewise, we also received suggestions for topics. We share these with you

Gabrielle Brennan, MS, ACSM EP-C, Exercise Specialist

LiveFit Cancer Exercise Program

The LiveFit Cancer Exercise Program at UNC Wellness Centers is designed to help cancer survivors ease their way back into physical activity with the help of trained fitness professionals. The program is a 10-week exercise program for cancer survivors whom have been treated within the last year. Each exercise session consists of a small group routine that varies each week.

Stephanie Wheeler, PhD, MPH Donald Rosenstein, MD

If You Have To Ask, You Can't Afford It: Addressing Financial Toxicity Among NC Cancer Patients

Financial toxicity

Samuel Cykert, MD

Could There Be Racial Bias in Cancer Treatment?

Results from a study published in The Journal of the National Medical Association show that a pragmatic system-based intervention within cancer treatment centers can nearly eliminate existing disparities in treatment and outcomes for black patients with early-stage lung and breast cancer. The treatment completion rates before this intervention were 87.3 percent for white patients versus 79.8 percent for black patients. With the intervention in place, treatment completion climbed to 89.5 percent for white patients and 88.4 percent for black patients.

Daniel Reuland, MD, MPH

Improving Colorectal Cancer Screening

Dr. Reuland will discuss ways in which healthcare facilities can update colorectal screening. One such method is multi-level intervention, including mailing stool tests, commonly referred to as FIT kits, directly to patients, in order to promote screening for patients during clinic visits, and to improve access to colonoscopy.

Michelle Gardiner, PharmD, (Last spoke 10/16)

Helping Oncology Patients with Pharmacologic Reactions

Oncology patients always have reactions to their courses of chemotherapy. Our speaker will touch on such topics as side effects of treatment regimens, the management of toxicity with such adjuvant treatment options as Perjeta®, an overview of oral chemotherapy medications, and the most effective way to give treatment – in which order do meds need to be given. The lecture will also touch on how “organoids” or organs are being grown so that cancer can be introduced and drugs tested for efficacy.

Brian Kanapkey, MA, CCC-SLP

Valerie Collins, PT CLT-LANA

Palliative Therapy in Head and Neck Oncology

We might think of palliative care in terms of minimizing pain, but with head and neck cancers this form of care also involves speech function. With this talk, the speaker will discuss such issues as the role of ancillary therapy, physical therapy, and speech pathology. She/he will also help us with treating Lymphedema and Trismus as well as how to deal with swallowing and speech dysfunction.

Heidi Gessner, MDiv, BCC

Jennifer McEntee, MD, MPH, MA

Hospice and End-of-Life Care

Genetic determinants of cellular addiction to polymerase theta

While oncology professionals endeavor to eliminate cancer from their patients, sometimes the disease is too widespread or too advanced to be treated. In these cases, hospice care professionals aspire to help maintain each patient's dignity and quality of life as he or she approaches the end. This talk will share the principles, goals, and techniques of hospice practitioners.

Melissa Gilkey, PhD*Preventing Cancer*

There are many different types of cancers, and various methods that help to prevent cancer. Our speaker will discuss some of the more compelling methods of preventing the different forms of cancer. The conversation will also compare hard science vs. speculation in terms of cancer prevention.

Jan Busby-Whitehead, MD*Investigating a Biomarker of Aging in the Pediatric Oncology Population*

Geriatric syndromes including urinary & fecal incontinence, memory disorders, falls, functional decline, polypharmacy and complex disease. Dr. Busby-Whitehead is committed to the preservation and improvement of patient health through research and to funded programs that serve to develop an increase the reach of geriatric education and training of physicians and healthcare professionals in the field of aging. Her research in aging includes preserving musculoskeletal health, mitigating falls in older adults, assessment of racial disparities regarding treatment of urinary incontinence in Southeastern United States nursing homes, and developing & testing a treatment program for fecal incontinence in frail elders.

Sam Cykert, MD**Geni Eng, DrPH***System-based Interventions To Reduce Racial Disparities in Treatment for Early-stage Lung Cancer Patients*

Sam Cykert and Geni Eng found an implicit bias with many clinicians that made them less willing to take the same risks with patients who were different from them. Additionally, black cancer patients without a regular source of care might have trust issues or miscommunications with physicians, leading them to drop out of treatment altogether. Cykert and Eng built a system that points out these lapses in care or communication in real time to help track patients who otherwise would drop off the grid.

Blaine Brower, FNP-BC*Common Side Effects to Immunotherapy and Management*

Need description

Andrea Hayes-Jordan, MD*UNC Surgery Profile*

Andrea Hayes-Jordan, MD, is a Professor of Surgery and the Chief of the Division of Pediatric Surgery in the Department of Surgery at UNC-Chapel Hill. She is also the Surgeon-in-Chief of the NC Children's Hospital. She discusses how the work she does effects generations of children, what gets her up in the morning, and her life-changing research for a rare cancer.

Yvonne Angwenyi, MSPH, RN*Cancer and Health Literacy: Implications for Practice and Public Health*

Need description

Need Speaker*Colonoscopies in Detecting Colon and Rectal Cancers*

Really young people are getting colon cancer and rectal cancers more than ever before (the numbers are really high). Oncologists are now recommending your first colonoscopy at 45.

Deborah K. Mayer, PhD, RN, AOCN, FAAN*More Cancer Survivors, Fewer Cancer Specialists Point to Challenge in Meeting Care Needs*

An aging population, a growing number of cancer survivors, and a projected shortage of cancer care providers will result in a challenge in delivering the care for cancer survivors in the United States if systemic changes are not made, according to a commentary in the Journal of the National Cancer Institute. Studies have shown that people are waiting longer to receive cancer care in the United States, and research suggests it will continue to be an issue in the years ahead if changes are not made. An American Society of Clinical Oncology report in 2014 estimated there would be a shortage of 2,200 oncologists, or approximately a 10 percent gap in providers, by 2025.

Speakers TBD

Best of ASH — January and February 2020

Each year, the American Society of Hematology (ASH) hosts a conference highlighting some of the latest hematologic oncology research. Join us as our speaker highlights some of the top presentations from this year's ASH conference.

Speakers TBD

Best of ASCO — July and August 2020

The American Society of Clinical Oncology (ASCO) hosts an annual conference that features some of the latest oncology research. Join us as our speaker highlights some of the top presentations from this year's ASCO conference.

Gaorav Gupta, MD, PhD

The Genetics of Cancer

How we treat oncology is changing as we see a shift from treating by disease location to treating by genetic alteration. Gaorav Gupta, MD, PhD, will explore the cfDNA assay utility and testing to monitor tumor burden, evaluate clonal evolution in serial specimens, and help distinguish germline from somatic variants alongside tumor tissue genotyping. He will also touch on how plasma cfDNA sequencing is used in clinical oncology practice.

Andrew Wang, MD

John Serody, MD

Using Nanotechnology to Personalize Cancer Vaccines

Nanotechnology can be used to harness a person's immune system in order to fight cancer. For example, nanotechnology can enable the immune system to attack the specific mutations that are driving a person's cancer. Our speakers will discuss how the technology stands today and where it is likely to go in the near future.

Claudio L. Battaglini, PhD, FACS

Bill Wood, MD, MPH

Hyman B. Muss, MD

Exercise with Get Real and Heel!

Need description. This would be a lecture that would be done AT the Get Real and HEEL facility, with a much more hands on focus than previous lectures.

Anne W. Beaven, MD

General Hodgkin Lymphoma Advances

There have been a good number of changes in the treatment of General Hodgkin Lymphoma in the past 5 years. Anne W. Beaven, MD, will provide an update on how this field is evolving.

Benjamin Vincent, MD

Immunotherapy in Hematology Oncology

Benjamin Vincent, MD, will guide us through immunogenomics approaches to understanding tumor biology. He will also discuss how these approaches impact the development of clinically relevant biomarkers and new cancer therapies.

Katie Reeder Hayes, MD

Leveraging Clinical Trials and Real-World Data to Inform Evidence-Based Cancer Care: Opportunities in Geriatric Oncology

Clinical trials provide a wealth of information that can be enhanced with data from standard care. When we wed these two data sets together, we can amplify our potential for improving evidence-based cancer care, particularly with older patients.

Juneke Grilley-Olson, MD

Phase I Clinical Trials in the Elderly: An Overview of the Literature

By reviewing the literature of Phase I Clinical Trials, we can acquire a better sense of how oncology research is progressing. In this lecture, Dr. Juneke Grilley-Olson guides us through the research on the elderly.

Andrew Smitherman, MD, MSc*Investigating a Biomarker of Aging in the Pediatric Oncology Population*

Since pediatric and older cancer patients differ in terms of types of cancer and responses to treatment, the aging process might help us to understand how cancer affects these two populations differently. In this lecture Dr. Andrew Smitherman explores an aging biomarker in pediatric oncology patients that could yield some answers.

Eben Lichtman, MD**Gianpietro Dotti, MD***Experimental Immunotherapy Approach to Target Acute Myeloid Leukemia*

Eben Lichtman, MD, and Gianpietro Dotti, MD, will present preliminary findings from preclinical studies of CAR T-cells directed towards a potential target called B7-H3, which is found on the cell surface of certain types of AML.

Joshua Zeidner, MD*Encouraging Results from Phase II Trial for Relapsed Acute Myeloid Leukemia*

Joshua Zeidner, MD will present preliminary data from a phase II clinical trial for administering a high-dose of the chemotherapy treatment cytarabine followed by an immune checkpoint inhibitor, pembrolizumab, in patients with acute myeloid leukemia that had relapsed or no longer responded to other treatment.

Natalie Grover, MD*Fighting Relapsed Blood Cancer with CAR-T Immunotherapy and Chemotherapy*

Hodgkin lymphoma is a generally curable disease, but there is a small percentage of patients who have had disease that doesn't respond to therapy. Combining CAR-T Immunotherapy and Chemotherapy could be a promising option for them.

Ben Vincent, MD**Paul Armistead, MD***Personalized Immune Treatments for Myeloid Leukemia*

A patient's cells can have unique genetic signatures that produce proteins that are distinct from any proteins found in a stem cell donor. For patients with myeloid leukemia who are undergoing stem cell transplant, the patient's proteins can serve as markers for the cancer cells' destruction by the donor's natural defense system, which is activated in the process of stem cell transplantation.

Gianpietro Dotti, MD*Engineering Immune Cells to Hunt Glioblastoma,*

Gianpietro Dotti, MD, will discuss genetically engineering cancer-killing immune cells to hunt brain tumors displaying a new molecular target that is highly prevalent on brain cancer cells. This approach holds promise for a new immunotherapy treatment for glioblastoma, which is the most lethal primary brain tumor. New treatments are sorely needed for the disease, as conventional treatments, which can include surgery, radiation and chemotherapy, typically produce a survival benefit of less than a year and a half.

Hazel Nichols, PhD*Higher Risk of Breast Cancer for Women after Childbirth*

Younger women who have recently had a child may have a higher risk of breast cancer than their peers of the same age who do not have children. While women who have children tend to have lower breast cancer risk than women who have not had children, that really comes from what breast cancer looks like for women in their 60s and beyond. However, it can take more than 20 years for childbirth to become protective for breast cancer, and before that breast cancer risk is higher in women who had recently had a child.

Marc Bjurlin, DO

Management of Small Renal Masses (Surveillance, Ablative Techniques, and Surgery)

Need description

Ray Tan, MD, MSHPM

Updates in the Use of Cytoreductive Nephrectomy

Need description

Dena Battle, president, KCCure

Qing Zhang, PhD

Introduction to KCCure and Current Research Efforts

Need description

Tracy Rose, MD, MPH

Advances in Non-clear Cell Renal Cell Carcinoma

Need description

Blaine Brower, FNP-BC

Common Side Effects to Immunotherapy and Management

Need description

Speaker TBD

Predictive Tests for Colorectal Cancer

New predictive tests for colorectal cancer.

Marilie Gammon, PhD

Tengteng Wang

Estrogen Byproducts Linked to Survival in Breast Cancer Patients

UNC Lineberger researcher's Marilie Gammon, PhD, and Tengting Wang found preliminary evidence that measuring byproducts of the hormone estrogen can help them predict survival for women with breast cancer.

Stephen Hursting, PhD

Laura Smith

Studies Explore Mechanisms behind Obesity-Cancer Link

New studies led by University of North Carolina Lineberger Comprehensive Cancer Center researchers explore biological mechanisms behind obesity and its link with cancer.

UNC Cancer Network Lectures in 2017

These are the lectures that the UNC Cancer Network presented as part of the **RN and Allied Health** and **Medical and Surgical Oncology** lecture series in 2017.

RN and Allied Health

Julianne O'Daniel, MS, CGC	1/11/17
Using Genetics and Genomics for Cancer Risk Identification	
Brian Jensen, MD	2/8/17
Late Effects of Cancer Treatment: Managing Cardiac Toxicity	
Jennifer Spring, RD, CSO, LDN	3/8/17
Nutrition Update: Prevention, Treatment, and Recovery	
Benyam Muluneh, PharmD, BCOP, CPP	4/12/17
Oral Chemotherapy: Overcoming the Challenge of Adherence	
Kim Keller, RN, MSN, OCN	5/10/17
Understanding the Pivotal Role of Nursing in Clinical Trials	
Amy Depue, RN	6/14/17
Jacquelyn Webb, BSN, RN, OCN	
The Power of Teamwork: Navigating Patients with Complex Needs	
Trevor Jolly, MBBS	7/12/17
Care for Older Adults with Cancer: Who, When, Where, Why, and How?	
AnnMarie Walton, PhD, RN, MPH, OCN, CHES	8/9/17
Pesticide Protective Behavior in Agriculture: A Cancer Prevention Strategy	
Meredith Keisler, PharmD, CPP	9/13/17
Management of Malignant Pain in the Era of Opioid Epidemic	
Kyle Lavin, MD, MPH	10/11/17
Medications: I am not a prescriber, what do I need to know?	
Gary Winzelburg, MD, MPH	11/8/17
Role of Palliative and Hospice Care in Improving Quality of Life	
Gary Asher, MD, MPH	12/6/17
The Evidence Base for Integrative Approaches to Cancer Care LIVE	

Medical and Surgical Oncology

Kenneth Ataga, MBBS	1/25/17
Sickle Cell Disease: An Overview and Updates	
Matthew Foster, MD	2/22/17
Acute Myeloid Leukemia: An Overview and Updates	
Karyn B. Stitzenberg, MD, MPH	3/22/17
Promising New Treatment Options for Rectal Cancer	
Ethan Basch, MD, MSc	5/24/17
Impact of Patient Reported Outcomes on Patient Care	
Brandi Reeves, MD	6/27/17
Treatment of Relapsed and Refractory Multiple Myeloma	
Benjamin Vincent, MD	7/26/17
New Options for Immunotherapy: Where We Are and Where We're Going	
Tracy L. Rose, MD, MPH	8/23/17
Renal Cell Carcinoma: Past, Present, and Future	
Juneko Grilley-Olson, MD	9/27/17
Head and Neck Cancer: Treatments and Complications	
Kevin Pearlstein, MD	10/25/17
The Role of Radiation Therapy in Advanced and Metastatic Disease	
Frances Collichio, MD	11/15/17
Advances in Melanoma Cancer Treatment	
Claire Dees, MD, MSc	12/13/17
Metastatic Breast Cancer 2017	

UNC Cancer Network Lectures in 2018

These are the lectures that the UNC Cancer Network presented as part of the **RN and Allied Health** and **Medical and Surgical Oncology** lecture series in 2018.

RN and Allied Health

Aimee Faso, PharmD, BCOP, CPP	1/10/18
Fluorouracil (5-FU) Toxicities and Strategies for Management LIVE	
Samantha Meltzer-Brody, MD, MPH	2/7/18
Provider Burnout and Compassion Fatigue in the Clinic	
Donald Rosenstein, MD	3/14/18
Justin Yopp, PhD	
Improving End-of-Life Care: What Can We Learn from the Bereaved?	
Meredith Moyers, MS, RD, CSO, LDN	4/11/18
The 7th Vital Sign: Identifying Malnutrition	
Alisha Benner, MD	5/9/18
Medical Marijuana: It's High Time to Talk	
Cherie M. Kuzmiak, DO, FACR, FSBI	6/13/18
Breast Imaging Technologies: Cancer Detection & Personalized Medicine	
Nicole Sartor, RN, MSN, C-PNP-PC	7/11/18
Palliative Care Opportunities	
Deborah K. Mayer, PhD, RN, AOCN, FAAN	8/8/18
Survivorship Care Planning: Beyond Standard 3.3	
Paul Armistead, MD, PhD	9/12/18
Immunotherapy 101	
Katherine Morgan, PharmD	10/10/18
Understanding Oncology Drug Interactions	
Lauren Lux, LCSW	11/14/18
Caring for Adolescents and Young Adults Living with Cancer: Meeting their Unique Medical and Psychosocial Needs	
Joanne Pizzino, MD, MPH	12/12/18
Complementary Therapies in the Treatment of Cancer	

Medical and Surgical Oncology

Jason Akulian, MD, MPH	1/26/18
Managing Cancer Heterogeneity	
Chad Pecot, MD	2/21/18
Immunotherapy Advances in Lung Cancer	
Thomas Alexander, MD, MPH	3/28/18
Meeting the Unique Needs of Pediatric Oncology Patients	
Matt Milowsky, MD	4/25/18
GU Cancers: Best of ASCO	
Joshua Zeidner, MD	5/23/18
Acute Myeloid Leukemia (AML): Finally Making Progress?	
Lisa Carey, MD	6/27/18
Using Biomarkers to Plan Adjuvant Therapy in Breast Cancer	
Michael Lee, MD	7/25/18
Novel Molecularly Targeted Therapies and Biomarkers in Advanced Colorectal Cancer	
Temitope O. Keku, MSPH, PhD	8/22/18
Recent Advances on the Gut Microbiome and Cancer Therapy	
Simon Khagi, MD	9/26/18
Tumor Treating Fields for Glioblastoma	
Claudio L. Battaglini, PhD, FACSM	10/24/18
Bill Wood, MD	
Aerobic and Resistance Exercise in Cancer Patients: Methods and Benefits	
Leeza Park, MD	11/28/18
Understanding and Treating Anxiety & Depression in Patients and Families with Advanced Cancer	
Natalie Grover, MD	12/19/18
An Update on CAR T Therapy	

UNC Cancer Network Lectures in 2019

These are the lectures that the UNC Cancer Network presented as part of the **RN and Allied Health** and **Medical and Surgical Oncology** lecture series in 2018.

RN and Allied Health

Katherine Reeder-Hayes, MD, MBA, MSc Stephanie Wheeler, PhD, MPH Disparities in Breast Cancer: A Biology, Health Services and Solutions Story	1/9/19
Jacob Hill, ND, MS Safety Considerations When Managing Dietary Supplements in Cancer Care	2/13/19
Zev Nakamura, MD Cancer-Related Cognitive Impairment: More Than a Side Effect of Chemotherapy	3/13/19
Tammy Allred, RN, OCN Preparing Patients for Chemotherapy	4/10/19
Marc Bjurlin, DO, MSc, FACS Meredith Crabtree, FNP-C Prostate Cancer Screening	5/8/19
Katharine Harrell, NP-C Helping Patients with Breast Cancer	6/12/19
Jayne Camporeale, MS, RN, OCN, APRN Mary Fleming Knowles, MSN, ANP Radiation Oncology 101	7/10/19
Shifali Arora, MD Kathleen Ferrell, MPAS, PA-C Helping Patients with Esophageal Cancer	8/14/19
Claire Gillett, MSN, RN, OCN Professional Development and Continuing Education for Oncology Nurses	9/11/19
Myriam Peereboom, MBA/MHA, CMI, CHITM Working with Patients through Interpreter Services	10/9/19
Marie Malikowski, RN, MHA, CCRP Understanding Treatment Plans and Clinical Trials	11/13/19
Melissa Walter, MPH, RDN, LDN Nutrition and the Aging Brain in Cancer Care	12/11/19

Medical and Surgical Oncology

Brandi Reeves, MD Matthew Foster, MD Best of ASH 2018: Myeloma and Leukemia/MDS	1/23/19
Stephan Moll, MD Anne W. Beaven, MD Key 2018/2019 Developments in Lymphoma and Thrombosis/Anticoagulation	2/27/19
Yuliya Pylayeva-Gupta, PhD Immunological Mechanisms in Pancreatic Cancer	3/27/19
Raj S. Pruthi, MD Improving Outcomes in Radical Cystectomy	4/24/19
Trevor Hackman, MD, FACS The Role and Importance of HPV Infection in Head and Neck Cancer	5/22/19
Lisa Carey, MD Decision-Making in Metastatic Breast Cancer	6/26/19
Autumn McRee, MD Emily Ray, MD, MPH Best of ASCO 2019: Breast and Gastrointestinal Cancers	7/24/19
Jared Weiss, MD Tracy Rose, MD, MPH Best of ASCO 2019: Lung and Genitourinary Cancers	8/28/19
Brian Colwell Jensen, MD Cardiotoxicity and New Therapies	9/25/19
Bhisham Chera, MD Clinical Trial Update in Head and Neck Cancer	10/23/19
Paola A. Gehrig, MD Gynecologic Cancer (title subject to change)	11/27/19
Andrew Wang, MD New Indications for Radiotherapy	12/18/19

2019 NC Projected New Cancer Cases

Some recent statistics on cancer from the State of North Carolina Department of Health and Human Services

Breast, Female (includes in situ)	11,033	Uterus	1,778
Bronchus/Lung	9,251	Leukemia	1,656
Prostate	7,438	Ovary	731
Colon/Rectum	4,752	Cervix	409
Melanoma of the Skin.	3,207	All Other	19,566
Bladder	2,639	Total.	62,460

Department of Health and Human Services

Statistics and Reports

Statistics and reports on cancer can be found at the Department of Health and Human Services. What follows is a list of available reports at <https://schs.dph.ncdhhs.gov/data/cancer.cfm>.

Brochures

- CCR Brochure

Annual Reports

N.C. Cancer Incidence Rates - 2009 - 2017

N.C. Cancer Mortality Rates - 1999 - 2017

N.C. Cancer Projections - 2000 - 2017

N.C. Cancer Survival for Selected Sites - 2010-2016

Cancer Incidence in North Carolina

The report includes newly diagnosed cancer cases for 26 cancer sites by county, gender and age.

Cancer Incidence in North Carolina 2014

Cancer Incidence in North Carolina 2013

Cancer Incidence in North Carolina 2012

Cancer Incidence in North Carolina 2011

Cancer Incidence in North Carolina 2010

Cancer Incidence in North Carolina 2009

Cancer Incidence in North Carolina 2008

Cancer Incidence in North Carolina 2007

Cancer Incidence in North Carolina 2006

Cancer Incidence in North Carolina 2005

Cancer Incidence in North Carolina 2004

Cancer Incidence in North Carolina 2003

Cancer Incidence in North Carolina 1998

Cancer Profiles

A biennial publication produced by the North Carolina Central Cancer Registry. These fact sheets detail specific cancer information for each of the counties in North Carolina and the state as a whole.

Cancer Profiles - April 2017

Cancer Profiles - October 2015

Cancer Profiles - June 2013

Cancer Profiles - August 2009

Cancer Profiles - August 2007

Cancer Profiles - May 2005

Cancer Profiles - April 2003

Cancer Profiles - April 2001

Cancer Fact Sheets

The North Carolina Central Cancer Registry fact sheets are published for selected cancer sites.

CCR Fact Sheet: Bladder Cancer 2017

CCR Fact Sheet: Brain and Other Central Nervous System (CNS) Cancer 2017

CCR Fact Sheet: Cervical Cancer 2017

CCR Fact Sheet: Colon and Rectum Cancer 2017

CCR Fact Sheet: Female Breast Cancer 2017

CCR Fact Sheet: Kidney Cancer 2017

CCR Fact Sheet: Leukemia 2017

CCR Fact Sheet: Liver Cancer 2017

CCR Fact Sheet: Lung and Bronchus Cancer 2017

CCR Fact Sheet: Melanoma 2017

CCR Fact Sheet: Multiple Myeloma 2017

CCR Fact Sheet: Non-Hodgkin Lymphoma 2017

CCR Fact Sheet: Pancreatic Cancer 2017

CCR Fact Sheet: Prostate Cancer 2017

CCR Fact Sheet: Bladder Cancer 2015

CCR Fact Sheet: Brain and Other Central Nervous System (CNS) Cancer 2015

CCR Fact Sheet: Cervical Cancer 2015

CCR Fact Sheet: Colon and Rectum Cancer 2015

CCR Fact Sheet: Female Breast Cancer 2015

CCR Fact Sheet: Kidney Cancer 2015

CCR Fact Sheet: Leukemia 2015

CCR Fact Sheet: Liver Cancer 2015

CCR Fact Sheet: Lung and Bronchus Cancer 2015

CCR Fact Sheet: Melanoma 2015
 CCR Fact Sheet: Multiple Myeloma 2015
 CCR Fact Sheet: Non-Hodgkin Lymphoma 2015
 CCR Fact Sheet: Pancreatic Cancer 2015
 CCR Fact Sheet: Prostate Cancer 2015
 CCR Fact Sheet: Bladder Cancer 2011
 CCR Fact Sheet: Brain and Other Central Nervous System (CNS) Cancer 2011
 CCR Fact Sheet: Colon and Rectum Cancer 2011
 CCR Fact Sheet: Female Breast Cancer 2011
 CCR Fact Sheet: Kidney Cancer 2011
 CCR Fact Sheet: Leukemia 2011
 CCR Fact Sheet: Lung and Bronchus Cancer 2011
 CCR Fact Sheet: Melanoma 2011
 CCR Fact Sheet: Non-Hodgkin Lymphoma 2011
 CCR Fact Sheet: Oral Cavity Cancer 2011
 CCR Fact Sheet: Ovarian Cancer 2011

CCR Fact Sheet: Pancreatic Cancer 2011
 CCR Fact Sheet: Prostate Cancer 2011
 CCR Fact Sheet: Thyroid Cancer 2011
 CCR Fact Sheet: Uterine Cancer 2011
 Mapping of Cancer
 Cancer Incidence and Mortality

 Collaborative Publications
 Use of Attribute Association Error Probability
 Estimates to Evaluate Quality of Medical
 Record Geocodes External link

 Cancer in North Carolina: 2013 Report (274
 KB PDF)

 2008 annual report External link on cancer
 and income.

 2007 annual report card External link on can-
 cer.