

UNC Lineberger Cancer Network

**PATIENT  
CENTERED CARE**

**ADVANCED  
PRACTICE PROVIDER**

**RESEARCH  
TO PRACTICE**

**2022  
Participant  
Survey  
Feedback**

### Thank You!

We thank you for your feedback for planning our 2022 lectures for the **Patient Centered Care**, **Advanced Practice Provider**, and **Research to Practice** series. Last year's lectures were some of the best we've had, and—with your knowledge and expertise—we hope to make next year's lectures even better.

The **Cancer Treatment in North Carolina: Patient-Centered Care** lecture series covers components of patient-centered health care delivery in cancer treatment and survivorship. The focus of this series is not disease-specific but includes discussion of approaches to improving care delivery for all cancer patients and survivors.

The **Cancer Treatment in North Carolina: Advanced Practice Provider** provides a forum for high-quality oncology-based content. The purpose of this monthly series is to share expertise and create a structured network for our vast community by promoting professional development, creating opportunities for collaboration, and using evidence-based education to increase knowledge and skills to foster ongoing quality patient care.

The **Cancer Treatment in North Carolina: Research to Practice** lectures cover the spectrum of anti-cancer therapy, with a focus on recent research developments, both locally and at large, and what's ready for regular practice. Perspectives from medical oncology, radiation oncology, and surgery will be included. The lecture series will incorporate an understanding of practice dynamics and concerns throughout the state of North Carolina, and the availability of clinical trials and subspecialty expertise to inform care.

## 2021-2021 Participant Feedback

Participants in the 2020–2021 **Patient Centered Care**, **Advanced Practice Provider**, and **Research to Practice** series provided plenty of feedback with requests for particular topics. Feedback by attendees is listed below the relevant lecture topic. Lecture topics are arranged alphabetically.

### **Advanced Practice Provider**

- APPs managing infusion related reactions.

### **Aging Cancer Patients**

- cancer care for seniors
- Future courses could be centered on caring for the older adult with cancer, with potential focus on the challenges of providing such care during the covid 19 pandemic (2)
- How to address food insecurity in the aging adult cancer patient, pain management (they often say they have no pain you ask only about ‘pain’ but if you ask if they ache anywhere they’ll say, “Oh, yes, my back aches all day and night so bad I can hardly sleep!”; how to get older adults linked into social engagement programs available locally
- Pertaining to the geriatric population, I believe it would be beneficial an advantageous to implement more patient cases into the lecture with examples of ideal expressions of empathy and treatment approach,

### **AYA/Pediatric Oncology**

- AYA survivorship issues: how to obtain a job after cancer, further education af-ter cancer, etc.
- Information of Young Adult Cancer Treatments and Survivorship
- Information on these therapies in pediatrics would be helpful to my practice.
- Pediatric/AYA oncology (22)
- Pediatric Bone Tumors – evaluation and treatment
- peds and rad onc (2)

- resources for children who have a parent with cancer, counseling for caregivers of patients, encouraging oncologists to refer to hospice
- Strategies to reduce compliance, financial transitions of care, etc issues for pediatric patients reaching adulthood and becoming responsible for their own care.
- Transitioning from pediatric oncology to adult oncology
- We normally get patient’s parents that outright refuse or default to the child on whether they want to participate. Maybe some talking points that make it easy to speak to children would be helpful.

### **Brain Cancer**

- Updates in the treatment of glioblastoma (10)
- brain tumor updates
- emotional support and information( how to present) with GBM patients and decline
- glioma pathogenesis and therapy
- Review of glioma pathogenesis, treatment, etc... (2)
- Therapeutic options oligodendroglioma – Oncologic patient assistance

### **Breast Cancer**

- Breast cancer in the young
- Breast cancer on the non-physician classes
- Breast Cancer patients and reconstruction surgery outcomes and patient’s satisfaction.
- Breast cancer programs
- Breast cancer
- continuing research for MBC

- Demonstration of how to do a proper clinical breast examination to be geared towards family medicine physicians, internal medicine physicians, OB-GYNs, NPs, and PAs. (2)
- Managing breast cancer patients in the ambulatory clinic setting.
- NCCN guidelines for breast cancer treatment
- Our clinic does a lot of breast and prostate cases. I would be interested in more of these lectures
- Supportive care management for new agents in breast cancer – alpelisib hyperglycemia, etc.
- treatment for lobular vs ductal breast cancer- are there differences?
- triple negative breast cancer (2)
- Updates in breast cancer treatment

### **Cancer Registrars**

- Cancer Clusters in NC
- Cancer Registrar- all cancers
- Review of NC Cancer Registry.
- Review of recent cancer clusters in NC and review of registries.

### **CAR-T Therapy**

- CAR-T therapy for solid tumors, what will we need to know
- CAR-T therapy. Management of BMT pt at time of relapse. Palliative care vs hospice.
- CAR-T updates (3)
- CAR-T, heme specific lectures
- CAR-T side effects and management of side effect
- Overall care of patients undergoing CAR-T therapy.

### **Cardio-Oncology**

- cardio- oncology update (3)

### **Caregivers and Patient Care**

- Behavioral health issues that clients and families are facing in the age of COVID- anxiety, treatment delay problems etc.
- Caregiver support and patients feeling isolated during covid
- How cancer support groups impact survival
- How does care of cancer patients impact the family and caregivers.
- How to enlist family members in care of patient.
- Identify and Manage Compassion Fatigue (6)
- Impact of cancer on the family.
- Support for caregivers
- The impact of having a significant other with cancer. Participating in the 'battle', contemplating the magnitude of the illness and potential life changes....Cancer is now a chronic illness, many of us live with a proverbial shoe waiting to drop at anytime, mark our calendars by follow up appointments and the potential bad news that might follow.

### **Chemo-Brain**

- Management of cognitive changes and "chemo brain." Also, we need access to more continuing education opportunities for our social workers.

### **Chemotherapy**

- A lecture reviewing recent treatment guidelines would be helpful to me.
- A lot of time was spent on reactions- would have liked more time on the other side effect
- anything related to target therapy
- Considerations for toxicity potentiation with certain drugs. I.E. Osimertinib with IO therapy, VEGF TKI and IO combo overlapping tox, other combos to avoid.
- Health & safety precautions for patients on chemo and/or radiation.

- Immune related AEs in combination with VEGF TKI management. How to distinguish overlapping tox, etc.
- Infusion benefits of ituximab and ivig.
- Infusion process for cancer patients and challenges
- More dosing information
- Other updates on preferred oncology treatment regimens.
- Overlapping tox of VEGF inhibitors with IO therapies. (2)
- overview of immunological agents.
- Targeted therapies
- Updates on cancer treatments. (2)

### **Chemotherapy, Oral**

- access to oral chemotherapy
- Common side effects of oral chemotherapy, their impact on patients and mitigation strategies.
- Information and monitoring of new orals and IV chemotherapy
- Knowing when to refer to oral oncology treatment as “chemo” and when not to.
- like to see more on oral meds (2)
- Management of oral chemo side effects (4)
- oral chemo and pharmacogenomics (3)
- Oral Chemo compliance and troubleshooting specialty pharmacy issues
- Oral chemo management (3)
- Oral chemo side effect management
- Oral chemo toxicity management
- Oral Oncology meds (11)
- Role of key clinicians in managing oral chemotherapy
- Strategies for oral chemotherapy adherence.

### **Clinics and Clinical Trials**

- AE management during clinical trials
- Any clinical trial related topics. (9)
- Any resources related to clinical research
- Any topics on clinical research coordinator functions
- barriers to clinical trials

- Best practices for PI oversight in clinical trials
- Clinical trial enrollment in rural areas
- current clinical trials for solid tumors
- Engaging patients in clinical trials.
- I coordinate cancer clinical trials through Lineberger, so an aging population is something we need to know more about. Patient concerns are important so we know how we can help address them, like readability of consents, travel, and costs, to make clinical trials more accessible to more patients.
- I have a challenging patient right now that would like my physician and I to request a medication through the FDA’s compassionate use program. it’s a complicated process and the patient thinks they are a good candidate for getting a medication off of a clinical trial, but our team understands it differently.
- Research as a viable clinic option and approach to medicine. Sometimes it’s the same drugs and in cancer treatment this can mean better options not covered by insurance or for patients without insurance.
- Identifying patients for Research studies using the eligibility and ineligibility requirements.
- opportunities for Clinical research nurses
- More information about assessing these toxicities in the clinical trial setting.
- Most of my issues in clinic are around distrust of the medical system.
- Ongoing clinical trials for the various cancers.
- The results from the clinical trials that were presented to us regarding patient cancer care.

### **Conference Highlights**

- ASCO Highlights

### **COVID-19 (see also Vaccines)**

- The impact on the recent research-based development of the COVID vaccine and how it could be applied to effective treatments or cures for cancer. (13)

- Cancer care in the midst of a global pandemic (17)
- coping with stress on patients during the covid pandemic
- Covid and also immunization certification
- Covid isolation and depression- caring for patients and families now and in the future
- Covid positive pts getting chemo
- Covid stressors and how to meet patient and Covid vaccine and clotting disorders
- Covid vaccine and sustainability of immunity
- Dual diagnosis of Covid and cancer
- Further details on ITP or other conditions as they pertain to COVID and the vaccine.
- I would like to know the impact of Covid-19 on stage of disease at Diagnosis
- Impact of COVID on delays in cancer care (3)
- Impact of COVID on oncology patients diagnosis and treatments (6)
- Interrupted/delayed treatment r/t Covid
- Long term outcomes of oncology patients who get COVID19. (2)
- motivating patients to keep in person appointments in the time of Covid
- new regimens and drugs. community resources decreased due to COVID
- Patient impact of COVID restrictions at clinic
- Research during COVID

### **Data Analytics**

- helpful app or resource for data and interactions

### **Diagnosis, Markers, Screening, and Staging**

- As a non-clinical worker (CTR for the UNCMC cancer registry), I find it most useful when the MDs and subject-matter experts can explain/translate the language used in describing/treating/staging cancer cases.
- Common labs and interpretation in oncology as well as cancer markers and targets of new cancer therapies.

- Tumor markers
- New recommendations on breast cancer screening
- I would love a lesson on the breakdown of labs/tumor markers for liquid tumors.
- review tumor markers in lung cancer
- Staging of cancers for laymen, social workers
- staging subsites of H&N cancers
- Updated screening recommendations
- When does a cancer diagnosis become a chronic health condition instead of acute care crisis?

### **Diversity and Equity in Cancer Care**

- Cancer care disparity for minority population- costs and other related factors.
- diversity in research
- Diversity, equity issues
- How to improve outreach and participation in underserved populations
- Immigrant cancer survivors
- Looking forward to the Biology of Cancer
- Population health – its impact on cancer, Socioeconomic impact on cancer care/ outcomes, Race, its impact on care received/ outcomes
- Providing care for non-English speaking patients
- treatment disparities for minority communities
- Working with non-English speaking patients, particularly if someone from the hospital interpreter group was involved in the talk.

### **Evidence-Based Care**

- Dr. Spector mentioned she teaches EBP, this is a subject that staff think they understand but often don't. A refresher on up to date EBP would be valuable.

### **Exercise and Cancer**

- It would be nice if you can show patients doing different exercises, without showing faces (or if patient agrees then may show) as well as patient attestations

### **Fertility in Cancer**

- Fertility clinic, options, processes, costs, fundings to help childbearing cancer patients
- Fertility preservation and cancer
- Fertility preservation for gynecology patients (2)
- There seems to be a time crunch between diagnosis and treatment that does not allow for conversation regarding fertility preservation in pediatric oncology. Parents are usually more focused on starting treatment rather than the long-term effects. We do not have any materials that we could give patients and their parents regarding this information.

### **Financial Toxicity**

- Best practices for identifying and confirming insurance benefit or financial assistance prior to scheduling of oncology infusion appointments (2)
- Comparison of costs of treatment for the more prevalent cancers, like lung, colon, prostate, etc.
- Explore how to capture revenue for ancillary support services many clinics or systems provide
- Financial toxicity aspects of cancer (7)
- Financial burdens and pathways to patient assistance in obtaining newer, more expensive agents. (3)
- Financial resources for cancers other than breast.
- Helping patients navigate the financial aspects of cancer care would be beneficial
- High cost of oncologics; need to optimize PAP and foundation options to ensure uninterrupted therapy. (3)
- How treatment in single payer societies is limited vs non single payer societies. Cost v benefit

- Insurance implications for treatment plans
- It would be interesting to see more on the process insurance companies go through to get anti-cancer medications approved for patients.
- Medication payment options. Explore reimbursement options for expensive medications, including manufacturer patient assistance programs, 501c-3 foundations, 340B, etc...
- More offerings related to disparities and social determinants of health
- Patient financial navigation during cancer care
- payer/insurance-driven disruptions to streamlined cancer care (e.g. requirements for patient to use outside pharmacies for infusion drugs, so that they are not allowed to get infused at the centers associated with their oncology care providers)
- Review of patient assistance opportunities available for expensive oncologic therapies.
- specialty medication financial assistance improving patients access to care.
- this time of year is a lot of insurance issues from patient's insurances changing or approvals expiring. Perhaps a review of some different disease states and the latest evidence for a leukemia subtype. (2)
- Transportation, financial assistance with patients

### **Gastrointestinal Cancer**

- Colon ca genetic testing
- GI upset meds for cancer its
- GI-related cancer treatment modalities and counseling points
- Lectures on GI-related cancer treatment modalities and counseling points

### **General Cancer Topics**

- A series of overview presentations with different types of cancers the subject of each and new and traditional treatments and patient care.
- Anything related to oncology support.



- Comparisons of various cancer treatments for the most prevalent cancers.
- Coping with multiple and different types of cancers within the same individual
- High level overview of cancer agents for various cancers.
- High-level overview of treatments and therapies for the various major types of cancer for men and women.
- In-depth case study for the three most common cancers being treated in NC.
- Oncology- abstract cases for all types/sites
- Organ 3D printing

### **Genetics and Cancer**

- Advanced Genetic alterations (2)
- Cancer genetics
- determining cancer treatment based on mutations
- Genetic markers and how to evaluate
- genetic testing of tumors versus germ cells
- genetics follow up for pt. and families testing positive for mutations.
- genetics, oncology, clinical trials.
- Genetics. Foundation 1 implications
- I would like to see more on how pathology labs operate to identify cancers.
- Molecular testing
- More genetics in oncology, highlight clinical trials.
- More lectures with genetic testing
- Perhaps an overview of genetics. Current genetic testing and follow up of patients at higher risk for breast cancer.
- Treatment algorithm for mCSPC
- Would love to learn about mutations/genetics specific to Hematological malignancies (2)

### **Genitourinary Cancer**

- Discussion of prostate cancer in general and how to understand terms such as “aggressive,” cribriform, etc (2)
- Early detection/screening for pancreatic cancer

- Hepatocellular Carcinoma patient needing Nexavar w/no insurance. Off label use of Nubeqa for metastatic prostate cancer patient experiencing significant fatigue.
- New data on the outcomes of the Urology project.
- Nursing Care of the Client Experiencing Prostate Cancer.
- Prostate cancer and PSA screening.
- prostate cancer staging
- Prostate Cancer- options for treatment, costs, Tx side effect
- urologic issues in cancer patients
- urothelial cancers overview

### **Gynecological Cancer**

- A review of ovarian cancer therapies (4)
- Cervical and endometrial cancers, and any links to HPV infection.
- Endometrial cancer (7)
- Gyn onc (2)
- HPV + cervical cancer update
- HPV+ Cervical Cancer, COVID-19 Vaccines
- Ovarian cancer prevention and testing
- Programs on ovarian and breast cancer
- Update on cervical/ovarian cancer lecture given in years past. One from an NP was excellent in 2017.

### **Head and Neck Cancer**

- Are there any treatment options specific to Adenoid cystic carcinoma?
- Cancer of the Thymus gland
- Head/neck cancer (4)
- explain staging in H&N cancers (2)
- head & neck cancer & mucositis
- hypothyroidism
- Mucositis management in H&N cancers (2)
- Non-surgical treatments of H&N cancers
- To hear from the H&N Oncologists as well as the surgeon who delivered today's lecture
- Voice restoration in H&N cancer patients

## **Hematology**

- additional treatments for ITP/TTP
- BMT Certification courses
- Bone marrow transplant vs stem cell transplant....
- C-diff infection in BMT patients
- CLL/Leukemia
- Cost of available lymphoma treatments
- DVT treatment in a heme malignancy patient
- GvHD review
- HCV
- Hematology/Oncology related content (3)
- Leukemia (10)
- Leukemia lymphoma (3)
- Lymphedema treatment for cancer patients
- Lymphoma (4)
- management of waldenstroms
- metastatic lymphoma
- Non-malignant heme topics
- Reduced-intensity regimens for elderly AML patients
- Sarcomas.
- Treatment for leukemias with a focus on novel treatments (e.g. venetoclax).
- Tumor Lysis Syndrome
- Update on bone cancer
- updates in AML
- Venetoclax in lymphoma.
- Would love to hear about oral agents to treat AML.

## **Holistic Therapy**

- I serve as a clinical social worker so anything that is about supporting the person as a whole – mental, spiritual, emotional, psychosocial, etc.
- Love anything that has to do with holistic approaches

## **Immunotherapy**

- continue to provide immunotherapy education, very informative

- How cancer develops, role of the immune system, immunotherapy
- immunology side effect management
- immunotherapy and covid vaccination
- Immunotherapy Include hospital distribution processes
- Toxicity of Immunotherapies that go beyond ipi-nivo

## **Integrative Medicine**

- integrative medicine and supplements
- Massage for Cancer Patients (2)
- Meditation
- more CAM-like courses. many patients express interest in therapies/treatments/programs to help them navigate through the cancer and/or treatment process. Unfortunately, the majority of the primary oncologist don't put a lot of stock into CAM. However with emerging data and evidence, it would be extremely helpful for them to be educated on the myriad of programs and modalities. It would also be helpful for the caregivers.
- More alternative medicine (2)
- More in depth exploration of different types of integrative therapies.
- More on mindfulness and anxiety reduction
- pressure points for pain management
- What resources UNC has for patients interested in complementary medicine.

## **Interprofessional Collaborations**

- Health Information Management was really left out of the interprofessional collaborations, but we are an essential component. More courses related to how HIM "fits in" would be appreciated.
- More lectures on interprofessional collaboration

## **Lab Results**

- Lab Analysis/Interpretation (2)
- Lab Evaluation (3)



## Lecture Suggestions

- Delineate if a program is geared more towards patients, caregivers, or providers to help align expectations
- Each R2P topic has been eloquently discussed. However they seem brief, given the volume of information and limited time.
- For ACPE participants have a statement saying “NO ZOOM, NO ACPE CREDIT.”
- It may be beneficial to know what audience a particular lecture may be more geared towards (ie caregivers, nursing, all staff)
- Lecture experience exceeded expectations.
- Like the systematic case presentation w/ working through care and delivery. Presented so that others not in direct pt care can learn more about the care our pts receive and the thought process/ research & study results that contribute to their decision making for the best care for each pt.
- Maybe have a simple case and go through the collaboration steps
- Maybe we could see ‘part 1 and part 2’ sessions to some of these discussions.
- More active engagement classes between clinicians and researchers so that we could role play talking about research. These can be hard conversations since they center around trust and how clinicians talk about research will either turn on or off a patient interest.
- More from Dr. Spector!
- Perhaps some programs featuring the lesser-known cancers
- periodic updates on new testing modalities and why they are chosen (2)
- prefer the information presented by interdisciplinary team members
- problem solving on tough cases from all members of team
- really enjoyed the interdisciplinary approach (2)
- show more quality improvement initiatives
- Social Work services
- Societal views of person with cancer

- Some of the programs are far above nursing level. I would like to see a few more presented by nurses or mid level providers.
- Statistical Evaluation Refresher.
- Would like a broader focus on the Med onc side of things as well (meds used, etc.)
- Would like a review of some cancers rarely seen by practitioners (in NC).
- Focus on how cancer can affect other organ systems as well

## LGBTQ+ and Cancer

- I know you recently did a presentation about transgender issues with cancer but I would like more scientific info such as how does the hormonal therapy used by these individuals affect their risk for breast cancer, etc Any info of living wills and health care POA’s (2)
- Transgender (2)

## Legal Issues

- Any info of living wills and health care POA’s
- legal issues

## Medical Marijuana

- A deeper dive into the CBD laws/ regulations, use in cancer patients
- CBD/THC use in cancer patients (4)
- More about medical cannabis
- Pain control, CBD use in cancer patients

## Navigation

- A lecture by Dr. Mehta on navigational bronch and lung cancer screening thru UNCCN.
- How does the patient navigation system work at the Cancer Center. What support are available to patients?
- Navigating the evolving treatment options and latest literature on value.
- Navigating/providing cancer care in the age of COVID-19

- Need a financial navigator for our cancer center. This would be very helpful
- nurse navigation
- Role of the Nurse Navigator
- Would love this information shared with the Volunteer Patient Navigators at some point.

### **Neuroendocrine Cancers**

- neuroendocrine lung cancer info.
- Understanding neuroendocrine tumors (7)

### **Nursing**

- Anything related to research nurses.
- Communicating with Dr
- Differentiating cancer care strategies vs. usual care.
- education tips for other practitioners- like gen. med/ ER/family practice on s/s of late onset of symptoms related to immune therapy
- Enjoy the programs that are presented from nursing or multidisciplinary point of view.
- How to work with nurses at different age ranges and years worked
- Low pay of nurses in NC (east coast verses west coast state salary difference).
- The importance of providers submitting the correct orders for patients and making sure that patients sign release of information forms in order for UNC Health to acquire their prior imaging and medical records so that their medical needs may be better served.
- Work Setting. Time restraints

### **Nutrition**

- Any dietary focus, immunity and new treatment
- dietary needs related to H&N patients
- More on diet and wellness.

- More targeted discussion regarding nutritional strategies for cancer patients. Such as, slowing the progression of cachexia, supplements which may act as appetite stimulants, or supplements which may mitigate hair loss, etc. The audience questions seemed to focus on the topic of CBD, so possibly consider a future discussion topic specific to Outcomes of CBD efficacy in Cancer patients.
- Nutrition and exercise
- Nutrition in cancer (TPN, enteral)
- Nutrition in Cancer prevention
- Nutrition support in cancer patients (8)
- Plant-based nutrition
- promoting optimal nutrition to have best possible outcomes with chemotherapy, radiation, and surgery

### **Oncology Emergencies**

- adverse events and clinical safety
- Antiemetics
- Cardiovascular complications in patients being treated for cancer.
- Changing skin care of radiation dermatitis.
- chemo side effect management for nurses
- Chemotherapy-induced adverse events (e.g., neuropathy). How to test for peripheral neuropathy or other problems (6)
- Critical care scenarios
- Hypercalcemia of cancer
- Neurological emergencies (2)
- oncologic emergencies
- Review of alopecia and what resources are available.
- The speaker did address in passing mortality rates occurring once an Oncologic emergency ensues. I would like to hear more details about this in a future lecture, particularly since the speaker's background is in patients who have been marginalized.
- training students in IPE
- Treatment of chemotherapy-related adverse events (e.g., cannabinoids).
- update on oncologic emergencies

### **Opioid Crisis**

- Opioid crisis. Support for families of victims of substance abuse disorder.
- Opioid dependence in cancer patients.

### **Palliative Care and Hospice**

- End of life and how best to support patients during that time. Talking about dying. (3)
- Goals of care planning – how can teams agree on when to transition from curative to palliative care?
- how do narcotics rules apply to cancer patients and how can common issues with prescriptions be avoided.
- how to talk with patients and families about palliative care and helping them not be offended
- Pain and mood management in cancer patients.
- Palliative Care/Pain management for cancer patients (12)
- Pain management/Hypnosis/Meditation
- supporting patients who choose no treatment for their terminal disease

### **Patient Care**

- A lot of my patients have trouble with sleeping while on chemo and other supportive meds. A review of chemotherapy dosing and where BSA dosing came from. (4)
- adherence to oral therapies
- Anything related to cancer treatment
- Better communication with the patient with current updates on their care
- C-diff prevention. CVAD maintenance. Falls in the adult cancer population.
- Cancer and physical therapy rehab
- cancer surveillance
- Cancer symptom management
- Communicating with difficult patient concerning the urgency of their care. (2)
- Educating individuals on the risk of overdose with narcotics

- Helping oncology patients manage their disease as well as possible.
- HIV patients and cardiology needs/referrals (2)
- How to care for patients in abusive relationships.
- How to help patients deal with self image due to side effects of cancer treatments; hair loss, weight loss, etc. (2)
- How to ensure that patients who come for chemo treatment have met ALL prerequisites listed in treatment plan, including imaging and line placement.
- Impact of other disease states on cancer treatment outcomes
- incorporating health & wellness coaching for cancer patients – as many of them want to take an active role in their treatment journey, many ask about nutrition, supplements and lifestyle modification
- Infectious disease concerns in cancer care
- Lack of patient motivation.
- managing blood sugar levels in cancer patients
- Managing common conditions in cancer patients.
- managing hand foot syndrome
- Managing oncology patients with comorbid diseases such as CHF would be an interesting course.
- managing side effects of treatments
- Medication adherence strategies
- Menopause
- More oncology lectures with an emphasis on patient counseling and management
- more symptom management; I/O; CAR-
- patient adherence related to cost, education etc. ways to overcome these
- Patient assistance foundations – how to get patients involved
- Patient education (5)
- Patients dealing with changes in taste causing poor appetite
- Precautions patient should take while on different types of cancer treatments (various IV chemos, oral meds, and radiation. (2)

- Protocol compliance and sponsor budgets.
- quality of life outcomes in patients with cancer, updates from major congresses
- side effect management cachexia
- Side effect management (2)
- Side effects from anti-oncologic agents
- side effects of oral onc drugs
- Sleep disorders – have had a run of patients saying they can't sleep. need tips and best practices including resources for teaching patients to use meditation.
- Update on latest Outpatient oncology treatment options.
- working with patients of strong religious faiths or political beliefs that inevitably work their way into therapy sessions.

### **Patient Reported Outcomes**

- How can Navigation assist with PRO
- How to make a change, such as promoting PROs when such a role is not included in your work position.
- Patient Reported Outcomes and how to improve in oncology and cardiology

### **Patient Resources**

- Cancer resources (2)
- Cancer support groups in rural areas.
- Would love to hear more about supportive resources available to our oncology patients post d/c (i.e. support groups, exercise programs, etc)

### **Pharmacy and Cancer**

- 340b and all that it involves and means
- A list of current oncology drugs with the diseases they treat both on and off label
- Bi specific drug or antibody drug conjugates
- Biosimilars and their place and confidence
- Biosimilar implementation and drug interactions (4)
- Biosimilar implementation, different insurance requirements vs cost
- Biosimilars – how to navigate formulary vs payor requirements vs patient preference (2)

- Currently a lot is in the political news regarding BIG PHARMA. Development of new cancer drugs, costs to the patients with delivery using them related to hospitals and profits
- Diabetes management and new research happening in this field
- Drug interactions with chemotherapeutics (4)
- Drug interactions with many newer anti-tumor agents.
- Drug-gene interactions in cancer treatment (2)
- heart transplant medications post-surgery
- Staying up to date with new drug approvals and literature, especially in the fast-paced oncology world.
- Medical/Pharmacological therapies. (2)
- more in depth follow up of how to become aware of drug vendor support programs
- More lectures pertaining to OTC recommendations for cancer patients
- New drug updates and trials (4)
- New drugs for old cancers
- Outpatient pharmacy chemotherapy
- outpatient prescription medications
- PARP inhibitor use if various malignancies
- Pharmacogenomics (2)
- pharmacology update
- Pharmacy and Medication related topics are always appreciated.
- Prediction of pharmacodynamic drug interactions in cancer care

### **Prevention**

- Cancer prevention and screening. (2)
- environment and cancer
- Lifestyle changes to prevent initial and recurrence of cancers.

### **Professional Burnout**

- Compassion fatigue related to pandemic fatigue
- Maintaining Morale during Covid
- My issues are workload related.

- Oncology nurse self care
- taking care of the healthcare worker. giving back to yourself after giving so much of yourself to others
- Techniques to stay resilient when we are all stretched thin?

### **Psychology/Psychiatry and Cancer**

- Anxiety r/t cancer in setting of overall pandemic anxiety
- Psychosocial issues and team collaboration
- Psychosocial needs of the oncology patient as well as trends in treatments
- Diagnosis specific information as well as courses focused on mental/emotional well-being for oncology patients
- I encounter patients and families with many psychosocial needs and fewer resources to offer. Would like more information on how to talk to and support them as I don't have a degree in SW. (2)
- Mental health needs for cancer patients, family and survivors (4)
- Prevention and treatment of anxiety/depression in cancer patients. (4)
- Psychosocial interventions and Acceptance and Commitment Therapy.
- more related to psychosocial needs of patients and how to address them
- Psychological affects of cancer treatment procedures
- Psychological strategies for coping with diagnosis
- Psychological stressors of oncologic procedures
- Suicide (2)
- The role that psychological and spiritual advisors have in cancer care.
- working with pts with grief.

### **Radiation Oncology**

- Anything related to radiation Oncology (5)

- As a tumor registrar in the UNC cancer registry, I would be most interested in courses with Radiation Oncology (with an opportunity to be assisted with Tx terminology/abbreviations), how they are treating the top 5 cancers seen at UNC/ by the UNC cancer registries and what the more common modalities/Tx plans are.
- Health & safety precautions for patients on chemo and/or radiation.
- How radiation oncology is used in conjunction with chemotherapy.
- How to combat fatigue during and after radiation treatments.
- PRRT for NETs
- Radiation for breast cancer treatment in women over 70
- Radiation Oncology side effects and treatment options (16)
- Radiation precautions
- Radiation Therapy for Breast Cancer

### **Research**

- Anything pertaining to cancer research. (8)
- Engaging physicians in research to increase referrals.
- Lack of research and funding for this community seems to be an issue.
- research nurse
- Patients and research.

### **Skin Cancers**

- Dermatologic issues seen in patients that are associated by the management of cancer.
- Diagnosis, and treatment of Melanoma. Management of immunotherapy related side effects
- malignant melanoma-new tx options
- Melanoma treatment. (2)
- Multiple myeloma in advanced stage
- Multiple Myeloma treatment and survival (3)
- New agents/treatment for multiple myeloma (3)
- skin care

- Steroid-sparing options for multiple myeloma maintenance
- Treatments for relapsed-refractory myeloma

### **Solid Tumors**

- Update on solid organ oncology treatments

### **Stem Cells**

- Criteria for Allogenic Stem Cell Transplant

### **Supplements**

- Vitamins and supplements in cancer patients (2)
- A detailed focus on the efficacy of essential oils
- herbals and interaction with chemo
- More detailed info on supplements specifically helpful or to definitely avoid during chemo, rads, and surgery.
- Vitamins and dietary/Herbal Supplements (3)
- More specific usages vitamins and supplements with active chemotherapy agents
- Specific interactions between herbal medicines and anticancer drugs
- Use of supplements during treatment
- using dietary supplements and antioxidants during chemotherapy and/or radiation

### **Surgery and Cancer**

- Post transplant relapse treatment
- surgical interventions and how it effect function

### **Survivorship**

- cancer survivor tips for after treatment
- How to implement survivorship care plans.
- Improving cancer survivor quality of life.
- Support for family of cancer survivors
- Survivorship issues (3)
- Survivorship, patient education

- Webinar about key struggles for cancer survivors after treatment ends and tips to helping them overcome them
- What are the components of survivorship care plan that needs to be included to meet CoC standards
- Would like to hear about examples of NP run survivor clinics

### **Symptom Management**

- symptom management (2)
- Symptom management for H & N patients that are receiving concurrent chemo/RT (2)
- Symptom Management for head and neck patients
- Treating chemo-induced nausea.

### **Telemedicine**

- Remote support groups. Difficulty providing support groups to a largely rural population
- Technology related to Virtual medicine-how to be more effective in Zoom and Webex
- Telemedicine versus FTF in light of coronavirus

### **Thoracic Cancers**

- A course that delves more deeply into adenocarcinoma, NSCLC, small cell lung cancer and large cell lung cancer and their differences
- Lectures with updated treatment regimens for lung cancer patients
- Lung cancer (2)

### **Treatment**

- Like to see more case presentations and working through treatment and outcomes.

### **Vaccines**

- mRNA and the long term potential consequences
- understanding of vaccines in cancer care
- vaccinations for COVID and HPV + cervical cancer update

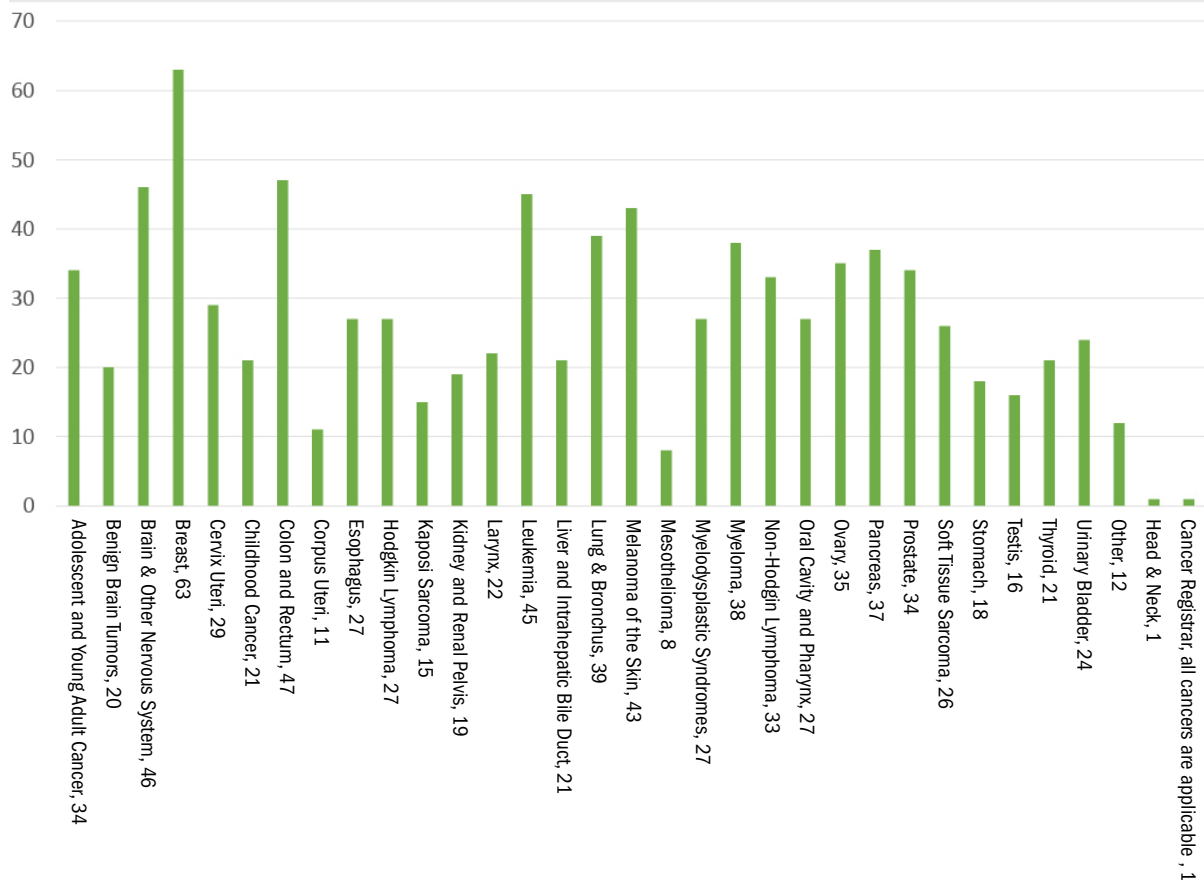


- Vaccines in the cancer population. Also, all vaccinating pharmacists need immunizer CEs, so I think this would create a great turnout.
- vaccine development- specifically discussion of the new COVID-19 vaccine and how they are using a mRNA platform- never used in humans before....much to learn here.
- What is the current state of cancer vaccine trials/research
- When to give COVID vaccine in relation to other vaccinations and IVIG/immune modulating medications

## 2021 Participant Survey Feedback

In October 2021, the UNC Lineberger 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 2022 lecture series.

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



**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:**

Adolescent and Young Adult (AYA) Patients . . . . .	35	Issues related to improving patient quality of life . . . . .	37
Aging Cancer Patients . . . . .	51	LGBTQ+ Patients with Cancer . . . . .	30
Basic cellular mechanisms . . . . .	1	Long-term effects of cancer treatments . . . . .	53
Cancer Research-updates and technological advancements . . . . .	66	Navigating Complicated Cancer Cases- Best Practices . . . . .	29
Cancer Screening, Detection, and Diagnosis- updates and technological advancements. . . . .	67	Oncology drug discovery . . . . .	1
Cancer Treatments- updates and technological advancements . . . . .	74	Other (Please List) . . . . .	8
CAR-T Therapy. . . . .	43	Pain Management. . . . .	35
Caregiving- how we can better support and integrate cancer caregivers and family members into care. . . . .	1	Palliative, end-of-life care, and coping with grief . . . . .	44
Case studies and practical implementation of new technologies . . . . .	46	Patient Reported Outcomes . . . . .	27
Challenging Communication in Cancer Care. . . . .	40	Patient Support Networks . . . . .	29
Chemotherapy/Biotherapy/Targeted Therapy . . . . .	53	Personalized Medicine . . . . .	28
Clinical trial participation . . . . .	29	Psychosocial aspects of dealing with cancer (depression, anxiety, maintaining friendships, working, etc.) . . . . .	51
Co-morbidities (diabetes, etc.) . . . . .	34	Radiation Oncology . . . . .	30
Ethical considerations during research and trials. . . . .	34	Radiographic Interpretation . . . . .	12
Exercise and Physical Activity . . . . .	35	Role of Race in Cancer Diagnosis, Treatment, and Survivorship . . . . .	27
Fertility issues . . . . .	19	Salivary gland cancers . . . . .	1
Financial Toxicity- financial issues regarding cancer care . . . . .	36	Sexuality . . . . .	20
Genetics and how it impacts cancer diagnosis/ prognosis . . . . .	56	Shared Decision Making . . . . .	23
Healthy Eating and Fitness . . . . .	43	Side Effect Management of Cancer Treatments. . . . .	35
High risk surveillance . . . . .	1	Staging . . . . .	1
Immunotherapy . . . . .	53	Supplements, Medical Marijuana, and Nutrition in Cancer . . . . .	47
Improving relationships with patients and caregivers, 33		Surgical Oncology . . . . .	25
Increased understanding of cancer and its causes . . . . .	39	Survivorship . . . . .	43
Integrative Medicine . . . . .	31	Topics in Cancer Pharmacy . . . . .	23
		UNC's Nurse and Patient Navigator Programs. . . . .	1
		Undocumented Patients with Cancer . . . . .	28
		Vascular Interventional Radiology in Cancer Care. . . . .	12

**We asked:** “Are there specific speakers you would like to see during the 2022 UNC Lineberger Cancer Network lecture series?”

**They replied:**

- Catherine Coombs, MD – CLL
- Matvey Tsivian, MD, or Ashok K. Hemal, MD, from Wake Forest --- expert urologic cancer specialists.
- Emily Tonoressos, MD, Director NCI Office Cancer Survivorship
- Paul Googe, MD, from Dermatopathology
- Peter Voorhees MD, Levine Cancer center
- All are exemplary, erudite and professional
- Aziz Sancar, MD, MPH
- Charles Perou PhD
- Lisa Carey MD
- Carey Anders MD
- Cleo A. Samuel-Ryals, PhD, for Methods to study racial disparities
- David W. Ollila, MD, skin melanoma
- Matt Foster, MD, or Joshua F. Zeidner, MD, on AML/ MDS
- Sascha Tuchman, MD, MHS – myeloma/ amyloidosis
- Kevin C. Oeffing , MD
- Jared Weiss, MD
- Tracy L. Rose, MD, MP
- Carrie B. Lee, MD, MPH
- Matthew Milowsky, MD
- Erin Kent, PhD, UNC cancer caregiving expert on cardio-oncology
- Palliative care speaker
- A. William Blackstock Jr., MD
- Mohs surgery Bradley G. Merritt, MD
- RadOnc Physicians
- Zachary Kadro, ND, and/or Aisha Chilcoat, ND, FABNO, are both UNC post-doctoral T32 Fellows in the Program on Integrative Medicine, who have extensive experience in complementary and integrative management of cancer patients, as well as preventive strategies. Both are excellent speakers.

**We asked:** “Are there specific topics you would like to see during the 2022 UNC Lineberger Cancer Network lecture series?”

**They replied:**

Advancement in genomic analysis.

Brain tumor immunotherapy

Cancer Nutrition, Alternative Therapies, Genetics in Cancer Development, Interventional radiology for cancer therapy

Cancer Prevention and Control; Health Policies intended to reduce the impact of cancer.

cardio- oncology

Differe nt kinds of testing done in pathology on various tumor types (such as IHC, FISH, PD-L1 assays, etc) and their clinical usefulness

Fertility preservation in cancer patients

financial t xicity and assistance, disability

Head & Neck Cancer; dental issues with radiation & chemo  
Mucositis better management”

Health Disparities

How cancer is staged

I found this webinar to be extremely worthwhile for both oncology and primary care specialties. Excellent presenter and content <https://northwestahec.wakehealth.edu/brochures/66497/public/CancerSurvivorshipforPCPsFinalFlyer.pdf>  
There a lots of new options for treatment of bladder cancer---learning about these would be great. “

I would love to learn more about advance directives/living wills/POA, either as its own topic or integrated into a more general lecture.

Im not sure if you have an updated lecture on

medical marijuana, but we are seeing more use among patients in hospitals and in community. We still need to educate the medical community about its use and any harmful side effects or interactions with other medications.

Latest advances, near future possibilities  
Why genetic effo ts not living up to the promise  
Addressing the quality of research in cancer  
Palliative care issues, particularly concerning pain medications

Microbiome, endometrial cancer, social determinants of health, methods for studying racial disparities

navigating the role of CTR & staying on top of all the standard setter changes

Radiation Oncology planning, simulations and therapy, including terminology explanations.

RadOnc treatments and practices

resources

Robotic bronchoscopy - we just launched our program this week, would be nice to get some information out in the community.

TACE, Y90

The recent one on how to read CT scans was fascinating. The interactive component of CT scan cases via video was very helpful. Mechanisms of how diffe nt cancer treatments work in the body.

**We asked:** *“Is there recent or emerging research that you feel should be presented by the UNC Lineberger Cancer Network in 2022?”*

**They replied:**

A single-cell and spatially resolved atlas of human breast cancers. Nat Genetics. 2021 Sep; 53(9):1334-1347.

Any emerging data that should be available by then in regards to covid 19 and cancer patients, covid vaccine boosters in cancer patients, as well as any long-term effects of covid in cancer patients

anything on genetics

Cancer caused due to multiple vaccinations?!

Car-t

Covid 19 and the malignant Heme patient-review of current science

CRISPR

Cure for cancer? Combination of treatments that work? How to detect cancer in younger people?

Genetic modification or DNA modification

I would be interested in seeing what has come of research done around Covid's impacts on Cancer Care and Cancer Research

Impact of COVID-19 on delays in diagnosis and treatment

Just the most/newest information.

Presidential/Biden initiatives in cancer research

XRT for Covid patients

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

**They replied:**

I recall one presenter displayed an image of only a male when discussing anatomy and to illustrate where the bladder was. That was rather shocking to me that an image of a female was omitted!

more case studies

Most of the webinars/seminars I see are very much bench science/cancer treatment/cure focused, and seem to completely leave out the PopSci group and cancer prevention and control topics.

No, they are always excellent

Oral medicine was biased and given by a resident type provider with minimal experience. Sad.

Please gave some in the evening, say 6:00 PM. I don't get lunches most days!!

Presentations are great! Love the variety of topics and speakers.

Providing CE's.

Record them so they can be shown to upperclassmen.

Strive to make these interactive when possible with survey/polls of the audience relevant to presentation content. Recommended reading on the given topic

Virtual on demand sessions



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

**They replied:**

A several speaker symposium

I always learn new things and appreciate the effort that is required “behind the scenes” for a successful presentation. Thank you for enlightening the people of North Carolina!

I find these lectures professionally presented and very informative! Thanks

I like that the lectures are between 12-1pm but it does not work for my schedule. So will be good if some of the lectures would be other hours like from 5pm-6pm

I may have missed the mechanism, and I thought I indicated my desire to be included, but I do not seem to be getting alerts for upcoming lectures (I’m a UNC Health, Medical Center Cancer Registrar). If the mechanism isn’t in place, would it be possible to create one?

I saw the Communication Challenges lecture and think that would be interesting, and new technologies for treatment.

I think the virtual presentations are very well done!

If we could have a list of upcoming offerings, like quarterly or something. We learn of them early but if we want to require or provide opportunity for students to attend it has to be planned in advance to make it happen.

overall great lectures, very well done

Please gave some in the evening, say 6:00 PM. I don’t get lunches most days!!

The whole log in process seems cumbersome

This is a great opportunity. I wish I wasn’t so busy so I could attend more of these.

**We asked:** *“Which type of CE credit are you most interested in?”*  
**They replied:**

