

2022–2023 End of Year Report

Academic Year July 1, 2022, through June 30, 2023

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Overview

Despite the impact of the COVID-19 pandemic, the UNC Lineberger Cancer Network (UNCLCN) Telehealth Team has managed to continue to increase its ability to provide continuing education credits throughout North Carolina (and beyond) with our Telehealth webinar series, to maintain the number of tumor boards that we monitor, and to expand the number of university courses that we create through a partnership between Lineberger Comprehensive Cancer Center, NC A&T, and NC Central University.

Telehealth Webinars

The UNC Lineberger Cancer Network has four separate professional oncology webinar series. Each webinar includes a live speaker (or speakers), and prepared slides. These webinars provide opportunities for audience participation via Web browsers and mobile phones, through a mechanism called Poll Everywhere. All webinars are available to UNCLCN Telehealth Sites, as well as via Zoom Webinar and MediaSite live streaming. Every webinar is recorded and can be viewed in our Telehealth Webinar Library (which contains over 180 webinars) or on our YouTube site.

Publicity of webinars is done via web sites, the UNC Lineberger Cancer Network's monthly newsletter *Behind the Scenes*, emails, our Learning Portal, Facebook, LinkedIn, YouTube, Twitter, and flyers.

Moreover, we take the webinar recordings, create an assessment, and provide these self-paced, online courses in our Learning Portal to augment the ways in which healthcare professionals can improve their knowledge regarding cancer research and patient care and earn continuing education credits to keep their licenses current. Each course resides in the Learning Portal as a Self-Paced, Online Course for one year, and then is turned into a Non-Credit course once the accreditation runs out.

The **Advanced Practice Provider** series was created and is coordinated by Tammy Triglianios, DNP, ANP-BC, AOCNP, in partnership with the UNC Lineberger Cancer Network.

The **Southeastern American Indian Cancer health Equity Partnership** (SAICEP) is a unique collaboration initiated by the Community Outreach and Engagement teams at the NCI Comprehensive Cancer Centers at Duke, UNC Lineberger and Atrium Health Wake Forest Baptist, with a focus on understanding and addressing the cancer-related health needs of American Indian communities in our catchment areas and beyond. The partnership offers culturally competent research, education and community engagement for American Indian tribal communities. Tribal and community organizations and leaders, as well as clinical and academic institutions are encouraged to be a part of our efforts.

Telehealth Accredited Live Webinars

Telehealth Accredited Live Webinars

Our live webinar series include **Patient Centered Care**, **Advanced Practice Provider**, **Research to Practice**, and **Southeastern American Indian Cancer Health Equity Partnership**.

All Live Webinars

Total to date 30

Total Participants:

Total attendees	2,097	Average attendance	55	Average site count.	1
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Participants Awarded Credit

CME	19	NCPD/CNE	661	ACPE	334
ASRT	96	CTR	55	Total	1,165

Live Webinar Sites Include:

Coastal Carolina Radiation	High Point Hospital	Novant Health Imaging	
New Hanover Medical Plaza		South Atlantic Radiology	UNC
Rex Main			
Vidant Health	Zimmer		

Telehealth Accredited Live Webinars – Patient Centered Care

Live Webinars: Patient Centered Care

These live webinars provide NCPD/CNE, ACPE, ASRT, and CTR continuing education credits for qualified participants.

Live Webinar Activity

Number of Webinars 9

Participation Levels

Number of attendees 898 Average attendance 75 Average site count. 1

CE credits awarded:

Number 572 Average 63%

Types of CE credit awarded:

NCPD/CNE: 309 ACPE 183 ASRT. 57
CTR. 23

Participating Sites

Coastal Carolina Radiation High Point Hospital UNC Rex Vidant Health

Live Webinars Presented: Patient Centered Care

Date	Presenter	Title
Jul 14, 2021	Zev Nakamura, MD	<i>Addressing Cognitive Dysfunction in Patients with Cancer</i>
Sep 8, 2021	Ronny Bell, PhD, MS Marc Emerson, PhD, MPH	<i>Meeting the Cancer Prevention and Care Needs of North Carolina's Indigenous Communities</i>
Dec 8, 2021	Mary Dunn, MSN, RN, OCN, NP-C	<i>Testicular Cancer</i>
Jan 22, 2022	Lyn Filip, RN, BSN, OCN	<i>Pet Therapy in Oncology</i>
Feb 9, 2022	Kirsten A. Nyrop, PhD	<i>Obesity, Cancer, and Disparities</i>
Mar 9, 2022	Rachel Hirschey, PhD, RN Tammy Triglianios, DNP, ANP-BC, AOCNP	<i>Early Detection of Colorectal Cancer: Don't Get Left Behind "45 is the new 50"</i>
Apr 13, 2022	Charles Loprinzi, MD	<i>Cryotherapy for Preventing Chemotherapy-induced Neuropathy: Proven, Promising-appearing, or Hogwash?</i>
May 11, 2022	Allison Beam, MPAP, PA-C	<i>The Vital Role of Primary Care Providers in Breast Cancer Survivorship Care</i>
Jun 8, 2022	Kate Foreman, MS, CGC	<i>Cancer Genetics and Genetic Testing: It's Not All in the Family</i>

Telehealth Accredited Live Webinars – Advanced Practice Provider

Live Webinars: Advanced Practice Provider

The Advanced Practice Provider series was created and is coordinated by Tammy Triglianos, DNP, ANP-BC, AOCNP, in partnership with the UNC Lineberger Cancer Network. These live webinars provide NCPD/CNE continuing education credits for qualified participants.

Live Webinar Activity

Number of Webinars 11

Participation Levels

Number of attendees 460 Average attendance 38 Average site count. 1

CE credits awarded:

Number 155 Average 13%

Types of CE credit awarded:

NCPD/CNE: 155

Participating Sites

Novant Health Imaging New Hanover Medical Plaza Rex Main South Atlantic
Vidant Zimmer

Live Webinars Presented: Advanced Practice Provider

Date	Presenter	Title
Jul 14, 2021	Ali Shazib, DMD	<i>Oral Complications Associated with Cancer Therapy: Identification and Practical Approaches</i>
Aug 18, 2021	Jennifer Spring, RD, CSO, LDN	<i>Gut Microbiome, Diet, and Cancer Immunotherapy</i>
Sep 15, 2021	Lauren M.B. Burke, MD Katrina A. McGinty, MD	<i>Introduction to Abdominal CT</i>
Oct 20, 2021	Tessa M. Andermann, MD, MPH	<i>Common Infectious Disease Conundrums in Cancer</i>
Nov 17, 2021	Gary Winzelberg, MD, MPH	<i>Promoting Effective Communication and Advance Care Planning for Patients with Cancer</i>
Dec 15, 2021	Brian Colwell Jensen, MD	<i>Cardiotoxicity of Cancer Therapies: A Review for the Oncology Provider</i>
Jan 19, 2022	Cassiopeia Frank, MMSc, PA-C	<i>Key Concepts and Complications: Managing Cancer-Associated Thrombosis</i>
Feb 16, 2022	Melissa Holt, DNP, PMHNP-BC, MSW	<i>Psycho-Oncology: Supporting the Mental Health of Oncology Patients</i>
Apr 20, 2022	Helen Tackitt, NP	<i>Cancer Survivorship Care in Primary Care</i>
May 18, 2022	Melissa Matson, MSN, RN, AGPCNP-BC	<i>Sex and AYAs with Cancer: Mitigating Risk and Managing Sexual Dysfunction</i>
Jun 15, 2022	Mariama Evans, MD	<i>Laboratory Workup for Transfusion Reactions</i>

Telehealth Accredited Live Webinars – Research to Practice

Live Webinars: Research to Practice

These live webinars provide CME, NCPD/CNE, ACPE, ASRT, and CTR continuing education credits for qualified participants.

Live Webinar Activity

Number of Webinars 8

Participation Levels

Number of attendees 630 Average attendance 53 Average site count. 1

CE credits awarded:

Number 376 Average 31%

Types of CE credit awarded:

CME: 13	NCPD/CNE: 173	ACPE. 151
ASRT. 39	CTR 32	

Participating Sites

Vidant Health

Live Webinars Presented: Research to Practice

Date	Presenter	Title
Jul 28, 2021	Gita Mody, MD, MPH	<i>Thoracic Surgical Oncology</i>
Sep 22, 2021	Anne W. Beaven, MD	<i>Lymphoma Management Updates for 2021</i>
Nov 17, 2021	Matthew Foster, MD	<i>Leukemia Management in North Carolina: Updates for 2021</i>
Dec 15, 2021	Dana Casey, MD	<i>Radiation Oncology in North Carolina: Updates for 2021</i>
Feb 23, 2022	Hanna K. Sanoff, MD, MPH	<i>Updates in Molecular Therapy for GI Cancers</i>
Mar 23, 2022	Shetal A. Patel, MD, PhD	<i>Lung Cancer Management in North Carolina: Updates for 2022</i>
Apr 27, 2022	Tracy L. Rose, MD, MPH	<i>Advances in Peri-Operative Therapy in Bladder and Kidney Cancer</i>
Jun 22, 2022	Bianka Patel, PharmD, BCOP, CPP	<i>Topics in Cancer Pharmacy in North Carolina: Updates for Oral Chemotherapy for 2022</i>

Telehealth Accredited Live Webinars – Southeastern American Indian Cancer Health Equity Partnership

Live Webinars: Southeastern American Indian Cancer Health Equity Partnership

The Southeastern American Indian Cancer health Equity Partnership (SAICEP) is a unique collaboration initiated by the Community Outreach and Engagement teams at the NCI Comprehensive Cancer Centers at Duke, UNC Lineberger and Atrium Health Wake Forest Baptist. These live webinars provide CME and NCPD/CNE continuing education credits for qualified participants.

Live Webinar Activity

Number of Webinars 3

Participation Levels

Number of attendees 109 Average attendance 54 Average site count. 0

CE credits awarded:

Number 30 Average 25%

Types of CE credit awarded:

CME 6 NCPD/CNE: 24

Live Webinars Presented: Southeastern American Indian Cancer Health Equity Partnership

Date	Presenter	Title
Nov 17, 2021	Rodney Haring, PhD, MSW	<i>Building Cancer Care Collaboratives for the Seventh Generation</i>
Feb 2, 2022	Hannah E. Worlax, MD	<i>Bridging the Bench and Bedside: The Amalgam of Academic Medicine and Its Effect on a Cancer Patient</i>
May 4, 2022	Myra Parker, PhD, JD, MPH Craig Dee, MPH(c)	<i>Cancer Screening and Prevention through an Intergenerational Intervention Using an Indigenous Approach</i>

Telehealth Accredited Self-Paced, Online Courses

Telehealth Accredited Self-Paced, Online Courses

These Self-Paced Online Courses (also known as Enduring Materials) include data for Patient Centered Care and Research to Practice. In the next report, we will be able to include information for Advanced Practice Provider and Southeastern American Indian Cancer Health Equity Partnership.

SPOC Activity

Number of SPOCs 25

Participation Levels

Number of attendees 534 Average attendance ... 20%

CE credits awarded:

Number 472 Average 20%

Types of CE credit awarded:

CME	16	NCPD/CNE:	334	ACPE.	61
ASRT.....	61				

Telehealth Accredited Self-Paced, Online Courses – Patient Centered Care

Self-Paced, Online Courses: Patient Centered Care

These self-paced, online courses provide NCPD/CNE, ACPE, and ASRT continuing education credits for qualified participants.

SPOC Activity

Number of SPOCs 11

Participation Levels

Number of attendees 337 Average attendance 28

CE credits awarded:

Number 305 Average 25

Types of CE credit awarded:

NCPD/CNE: 232 ACPE 38 ASRT 35

Self-Paced, Online Courses Offered: Patient Centered Care

Date	Presenter(s)	Title
Jun 24, 2020 – Jun 23, 2021	Deborah Mayer, PhD, RN, AOCN, FAAN	<i>Delivering Survivorship Care in North Carolina</i>
Jul 29, 2020 – Jul 28, 2021	Samuel Cykert, MD Christina Yongue, MPH, MCHES	<i>The Role of Race in Cancer Diagnosis, Treatment, and Survivorship</i>
Aug 12, 2020 – Aug 11, 2021	Angela M. Stover, PhD	<i>Patient-Reported Outcomes (PROs) in Cancer Care</i>
Sep 23, 2020 – Sep 22, 2021	Michelle Gardiner, PharmD, BCOP, CPP	<i>Managing Chemotherapy Side Effects</i>
Nov 11, 2020 – Nov 10, 2021	Terri Phoenix, PhD Patricia Morfeld, RN, BSN, OCN	<i>Meeting the Needs of Transgender Patients with Cancer</i>
Mar 10, 2020 – Mar 9, 2021	Hyman B. Muss, MD	<i>The Aging Cancer Patient Population in North Carolina</i>
Feb 10, 2021 – Feb 9, 2022	Stephanie B. Wheeler, PhD, MPH Donald Rosenstein, MD	<i>If You Have to Ask, You Can't Afford It: Addressing Financial Toxicity among NC Cancer Patients</i>
Apr 1, 2021 – Mar 31, 2022	Amber Cipriani, PharmD, BCOP, CPP Ashlynn Messmore, CGC, MS Jaime Richardson, BA, RN, BSN, OCN, CCRP	<i>Genetic Testing in Cancer Patients: A Case Illustration</i>
Apr 14, 2021 – Apr 13, 2022	Ashley Leak Bryant, PhD, RN-BC, OCN, FAAN	<i>Interprofessional Collaboration in Caring for Adults with Cancer</i>
May 12, 2021 – May 11, 2022	Frances A. Collichio, MD	<i>Immune (check point) Related Adverse Events 2021</i>
May 12, 2021 – May 11, 2022	Carly Bailey, MA Brianna Castrogivanni, MS, RCEP	<i>Making Exercise and Wellness Part of the Cancer Experience</i>

Telehealth Accredited Self-Paced, Online Courses – Advanced Practice Provider

Self-Paced, Online Courses: Advanced Practice Provider

These self-paced, online courses provide NCPD/CNE continuing education credits for qualified participants.

SPOC Activity

Number of SPOCs 2

Participation Levels

Number of attendees 33 Average attendance 17

CE credits awarded:

Number 24 Average 24

Types of CE credit awarded:

NCPD/CNE: 24

Self-Paced, Online Courses Offered

Dates as SPOC	Presenter(s)	Title
Jul 14, 2021 – Jul 13, 2022	Deborah Mayer, PhD, RN, AOCN, FAAN	<i>APPs Role in Cancer Survivorship Care</i>
Sep 22, 2021 – Sep 21, 2022	Mary Peavey, MD, MSc	<i>Fertility Preservation in Cancer Care</i>

Telehealth Accredited Self-Paced, Online Courses – Research to Practice

Self-Paced, Online Courses: Research to Practice

These self-paced, online courses provide CME, NCPD/CNE, ACPE, and ASRT continuing education credits for qualified participants.

SPOC Activity

Number of SPOCs 12

Participation Levels

Number of attendees 164 Average attendance 14

CE credits awarded:

Number 143 Average 12

Types of CE credit awarded:

CME: 16 NCPD/CNE: 78 ACPE. 23
ASRT. 26

Self-Paced, Online Courses Offered: Research to Practice

Date	Presenter(s)	Title
Jul 13, 2021 – Jul 12, 2022	Michael S. Lee, MD	<i>Gastrointestinal Cancer Management in North Carolina: Updates for 2020</i>
Jul 1, 2021 – Jun 31, 2022	Trevor Royce, MD, MPH	<i>Radiation Oncology in North Carolina: Bladder Cancer Updates for 2020</i>
Sep 9, 2020 – Sep 8, 2021	Emily Ray, MD, MPH	<i>Breast Cancer Management in North Carolina: Updates for 2020</i>
Nov 11, 2020 – Nov 10, 2021	Shetal A. Patel, MD, PhD	<i>Lung Cancer Management in North Carolina: Updates for 2020</i>
Nov 11, 2020 – Nov 10, 2021	Dominika James, MD	<i>Benefits of Regional Anesthesia in Cancer Surgery</i>
Nov 9, 2020 – Nov 8, 2021	Benyam Muluneh, PharmD, BCOP, CPP	<i>Optimizing Cancer Care: Updates for 2020</i>
Mar 24, 2021 – Mar 23, 2022	Christopher Dittus, DO, MPH	<i>Mantle Cell Lymphoma Management in North Carolina: Updates for 2020</i>
Feb 10, 2021 – Feb 9, 2022	Emily Olsson, CCRP Alicia Bilheimer, MPH	<i>North Carolina Cancer Challenge 2020: Improving Enrollment into Cancer Clinical Trials</i>
Mar 10, 2021 – Mar 9, 2022	Wendell Yarbrough, MD, MMHC, FACS	<i>Advances in Head and Neck Cancer Management in North Carolina: Updates for 2021</i>
Apr 14, 2021 – Apr 13, 2022	Alice Ma, MD, FACP	<i>Update in ITP and TTP</i>
May 9, 2021 – May 8, 2022	Stephen Kimani, MD, MSc	<i>COVID-19 and Oncology Practice</i>
Jun 23, 2021 – Jun 22, 2022	Matthew I. Milowsky, MD	<i>Genitourinary Oncology Update 2021</i>

NC Community College Oncology Webinars

These webinars are designed for nursing and allied health students in community colleges. The webinars provide opportunities for students to become more familiar with strategies necessary for caring for cancer patients. It is hoped that this series will lead to improvements in cancer care and a greater interest in oncology-related professions. Because teachers needed to transition from in-person classroom instruction to online courses, we were not able to provide **Community College Oncology** webinars for the 2021–2022 academic year; however, we have a schedule and speakers lined up for the 2022–2023 academic year.

University Courses in Collaboration with UNC Lineberger Comprehensive Cancer Center, NC A&T, and NC Central University

Beginning in 2020, the UNC Lineberger Cancer Network began collaborative efforts with UNC Lineberger Comprehensive Cancer Center, North Carolina A&T, North Carolina Central University to develop courses for students at all three institutions. These courses allowed us to draw on the knowledge and expertise of instructors at a couple of the states Historically Black Colleges and Universities (HBCU) as well as at Lineberger. We hope to expand these courses to other HBCUs as well.

University Courses – Investigator Initiated Trials

Investigator Initiated Trials

A collaboration between Kaitlin Morrison, PhD and the UNC Lineberger Cancer Network, these courses were designed to aid the research investigator by providing continuing education about some of these complex processes of clinical research trials. They cover a variety of topics from creation of a clinical trial to responsibilities associated with sponsoring a clinical trial to business principles surrounding project management of activating clinical trials.

Course Components

Number of components 22

Participation Levels

Number of attendees 115 Average attendance 5

CME Credits Awarded

Number 15 Average awarded 13

Presenter(s)	Title
Leila Kiefer, PhD	<i>Creating your Clinical Trial Protocol</i>
Claire Dees, MD, MSc, ScM Jared Weiss, MD Carey Anders, MD	<i>Two Successful Clinical Trialists Reflect on How They Got Their Start</i>
Kaitlin Morrison, PhD	<i>Protocol Amendments vs. Administrative Letters</i>
Nasrin Babadi, PhD, RAC	<i>IIT- Protocol Amendments</i>
Kaitlin Morrison, PhD	<i>The “Tiny” Details that Can Wreak Havoc with a Protocol: Improve Protocol Development to Avoid Amendments</i>
Kaitlin Morrison, PhD	<i>5 Tips for Developing and Maintaining an IND</i>
Kaitlin Morrison, PhD	<i>Everything that a PI Needs to Know about Holding an IND</i>
Kaitlin Morrison, PhD	<i>IND Boot Camp</i>
Nasrin Babadi, PhD, RAC	<i>IIT FDA Annual Reports</i>
Kaitlin Morrison, PhD	<i>IND Safety Reporting- LCCC IITs</i>
Kaitlin Morrison, PhD	<i>Working with Investigational Assay Results</i>
Kaitlin Morrison, PhD	<i>Everything a PI Needs to Know about LCCC as an IND Sponsor</i>
Kaitlin Morrison, PhD	<i>Site Perspective: Examine the Process for Maintaining Quality and Ensuring Results</i>
Kaitlin Morrison, PhD	<i>Gene Therapy- FDA and Local Considerations</i>
Kaitlin Morrison, PhD	<i>Hot and Cold Topics for Investigators</i>
Kaitlin Morrison, PhD	<i>LCCC’s Single Subject Exception Policy</i>
Carrie Lee, MD, MPH	
Mike Matamoros, MS, CIP	<i>Understanding when Assays become Investigational Assays</i>
Cassie Myers, CIP	

University Courses – Investigator Initiated Trials

Kaitlin Morrison, PhD	<i>Regulatory and Clinical Development Considerations for Chimeric Antigen Receptor (CAR) T Cells</i>
Kaitlin Morrison, PhD	<i>Activation 101- Who are the Players</i>
Kaitlin Morrison, PhD	<i>Activation 201- What is the Role of the Activation PM</i>
Kaitlin Morrison, PhD	<i>What is a “Critical Path” and How Can it Help Me?</i>
Kaitlin Morrison, PhD	<i>Project Management of CPO Trial Activation 101</i>

University Courses – Exploring Cancer

Exploring Cancer (formerly The Biology of Cancer)

In 2020, UNCLCN partnered with cancer specialists at NCCU, NC A&T and UNC Chapel Hill to create an online course that serves students at these institutions. Originally called Biology of Cancer, this course has been renamed Exploring Cancer. In its third year, the course is an engaging and stimulating, semester-long webinar series taught by cancer biologists, physicians, public health experts, and other cancer specialists at the partnering institutions.

Date	Presenter(s)	Title
Aug 27, 2021	Antonio Baines, PhD	<i>Introduction: What is Cancer?</i>
Sep 3, 2021	Samuel Cykert, MD	<i>An Intervention to Achieve Equity in the Healthcare System</i>
Sep 10, 2021	Jennifer Webster-Cyriaque, PhD, DDS	<i>Virology and Cancer, Screening, Treatment, and Health Disparities (COVID-19)</i>
Sep 17, 2021	Cherise B. Harrington, PhD, MPH	<i>Cancer from a Public Health Perspective</i>
Oct 1, 2021	Kate Westmoreland, MD Matthew Painschab, MD	<i>Global Oncology</i>
Oct 15, 2021	Ugwuji Maduekwe, MD, MMSc	<i>Precision Medicine and Immunotherapy</i>
Oct 22, 2021	Danny Fitzgerald Ellis, MBA, PhD Stephanie B. Wheeler, PhD, MPH	<i>Financial Toxicity in Rural Populations: How to Reach Cancer Patients</i>
Nov 5, 2021	Cathrine Hoyo, PhD	<i>Cancer and the Environment</i>
Nov 12, 2021	Checo Rorie, PhD	<i>Breast Cancer and Disparities in N.C.</i>
Nov 19, 2021	Students	<i>Careers in Cancer</i>

University Courses – Lineberger Clinical Trials

Lineberger Clinical Trials

A collaboration between Claire Dees, MD, ScM, and the UNC Lineberger Cancer Network, these college courses explored clinical research focused on clinical trials in oncology. These explorations included the design, conduct of trials, relevant regulatory ethics and data management issues, barriers and challenges, and career development regarding clinical trials. The presenters also introduced other types of clinical research and adjuncts to therapeutic trials including biomarkers and correlative studies.

Course Components

Number of components 8

Participation Levels

Number of attendees 254 Average attendance . . . 32%

Date	Presenter(s)	Title
Sep 8, 2021	Claire Dees, MD, ScM Matthew I. Milowsky, MD	<i>Introduction: What is Cancer?</i>
Sep 21, 2021	Carrie B. Lee, MD, MPH Michele Hayward Chris Hilliard, CCRC	<i>Interventional and Correlative Trial Resources</i>
Oct 6, 2021	J. Kaitlin Morrison, PhD Jared Weiss, MD	<i>Proposing and Conducting an IIT</i>
Oct 13, 2021	Anastasia Ivanova, PhD Allison Deal	<i>Careers in Cancer</i>
Oct 20, 2021	Tess Cummings Shaw Scott Stefanie Belanger Coleman Tew, MPA	<i>Trials Regulation, Clinical Operations, Compliance and Finance</i>
Nov 3, 2021	Lisa Carey, MD J. Kaitlin Morrison, PhD	<i>Correlative Trials- A Case-based Approach</i>
Nov 10, 2021	Marjory Charlot, MD, MPH, MSC Patty Spears, BS	<i>Barriers to Accrual and Patient Advocacy</i>
Dec 1, 2021	Josh Zeidner, MD Jared Weiss, MD Autumn McRee, MD Claire Dees, MD, ScM Lisa Carey, MD	<i>Career Development Roundtable</i>

University Courses – The Pathology of Disease

The Pathology of Disease

The Introduction to Pathology class is designed for upper level undergraduate and MS students who are interested in pathology, human tissue function, and disease progression and are considering graduate school or a health professions career. The course is designed to incorporate both didactic seminars and group paper-based discussions to understand the current state of specific topics in pathobiology. This course is designed to prepare the student for future independent disease research or a health profession.

Date	Presenter(s)	Title
Aug 19, 2021	Russell R. Broaddus, MD, PhD	<i>Which Tool in the Toolbox?</i>
Aug 24, 2021	Dominique Munson Ryan Stanley, MLS Mariama Evans, MD Christian Long, MLS Alina Hamilton	<i>Paths to Careers in Pathology and Clinical Sciences</i>
Aug 26, 2021	Andrew Gladden, PhD	<i>Basic Cell Histology. What Are You Looking at?</i>
Aug 30, 2021	Andrew Gladden, PhD	<i>Tissue Organization. How Do Vertebrates Make a Spine?</i>
Sep 2, 2021	Howard Reisner, PhD	<i>Cell Injury and Death, Cellular Destruction</i>
Sep 9, 2021	J. Charles Jennette, MD	<i>Introduction to Mechanisms of Disease</i>
Sep 14, 2021	Woosuk Steve Hur, PhD	<i>Cardiovascular Disease and Pathology</i>
Sep 16, 2021	Emma Bouck	<i>Peripheral Vascular System</i>
Sep 21, 2021	Dre'Von Dobson	<i>Thrombosis/Hemostasis</i>
Sep 23, 2021	Dominique Munson	<i>Kidney Organization and Disease</i>
Sep 28, 2021	Students	<i>Cardiovascular Project Presentations</i>
Oct 5, 2021	Ian Moore, DVM, PhD	<i>Modeling Lung Function and Disease</i>
Oct 7, 2021	Victoria K. Baxter, DVM, PhD	<i>Vaccine Development</i>
Oct 14, 2021	Craig A. Fletcher, DVM, PhD	<i>Infectious Disease</i>
Oct 19, 2021	Scott Randell, PhD	<i>Cystic Fibrosis, a Genetic Disease</i>
Oct 21, 2021	Checo Rorie, PhD Ashalla Freeman, PhD Georgette Dent, MD Keisha Gibson, MD, MPH	<i>Tour Brinkhous-Bullitt and Microscopy Core (with Pablo Ariel)</i>
Oct 28, 2021	Andrew Gladden, PhD	<i>Introduction to Cancer Concepts</i>
Nov 2, 2021	Alina Hamilton, MS	<i>Breast Cancer</i>
Nov 4, 2021	Russell R. Broaddus, MD, PhD Tricia Ann Murdock, MD	<i>Endometrial Cancer</i>
Nov 9, 2021	Bethany Brown	<i>Head and Oral Cancers</i>

University Courses – The Pathology of Disease

Nov 11, 2021	Antonio Baines, PhD	<i>Pancreatic Cancer</i>
Nov 16, 2021	Georgette Dent, MD	<i>Hematological Cancers</i>
Nov 18, 2021	Students	<i>Project: Develop a Plan for a New Clinical Marker?</i>

Multidisciplinary Tumor Boards

Each multidisciplinary tumor board is scheduled and monitored to include qualified remote participants and to ensure that all attendees connect correctly. During the pandemic, all tumor boards went virtual, and UNCLCN facilitated this transition. As tumor boards test hybrid attendance, a UNCLCN team member is in the room to handle all remote switching to make certain that the correct images are sent to remote participants. Frequent troubleshooting is necessary, due to the age of the equipment in the NC Cancer Hospital conference rooms.

Tumor Boards Monitored in Fiscal Year 2021-2022

GI Tumor Board- 48 Occurrences, 415 CMEs	Hematology (Parker) Tumor Board - 44 Occurrences, 580 CMEs
Breast Tumor Board- 51 Occurrences, 669 CMEs	Pediatrics Tumor Board - 44 Occurrences, 354 CMEs
Neuro Oncology Tumor Board – 50 Occurrences, 331 CMEs	Head and Neck Tumor Board – 47 Occurrences, 331 CMEs
Sarcoma Tumor Board – 22 Occurrences	Benign Hematology – 43 Occurrences, 253 CMEs
BMTCP – 50 Occurrences, Pending CMEs	Breast Rad – 50 Occurrences, Pending CMEs
GU – 51 Occurrences	GU/Clinical - 12 Occurrences
Hepatology – 27 Occurrences	Melanoma – 22 Occurrences, 90 CMEs
Molecular Tumor Board – 7 Occurrences, 34 CMEs	Thoracic – 50 Occurrences

Support

The UNCLCN staff supports clinicians and staff throughout the UNC School of Medicine, UNC Health Care, and UNCLCN Telehealth Webinar Sites. Support locations the many Telehealth Webinar Sites documented earlier, as well as 17 conference rooms on and around campus:

The UNC Lineberger Comprehensive Cancer Center

Many upgrades were performed in LCCC during 2016. Whitlock did the upgrades and we trained users how to operate the new equipment. In addition, documentation was created and placed in the renovated rooms and was also made available, online. We frequently provide support, recording, streaming, WebEx, online collaboration, and event support for rooms including:

Pagano Conference Room Director's Conference Room Henningsen Board Room

N.C. Cancer Hospital

We provide technical support for all oncology-related events that take place in the UNC Cancer Hospital. We offer assistance ahead of time so that users are familiar with the equipment. In addition, we provide on-site support when needed.

Conference Room 1 Conference Room 2 Conference Room 3 Conference Room 4
Patient and Family Resource Center

Physician's Office Building

UNCLCN Staff handle room upgrades, documentation, training, scheduling, and support in the listed rooms. Additional cables were installed in meeting rooms with computers to allow for HDMI hookups. Documentation was created for rooms that we support. This has been placed in the rooms themselves as well as online.

POB 3101 POB 3111 POB 3125

ITS Manning – Studio in Room 3200

All Telehealth Webinars originate from ITS Manning 3200. We have made significant upgrades to the studio this year, providing improved audio and video streaming and recording capabilities. We have seen an increase in the use of the studio in 2016 to support oncology recording and collaboration.

Support

Carr Mill Annex

UNCLCN Staff handle room upgrades, documentation, training, scheduling, and support for the following rooms.

Room 203

Room 234

Room 235

Carr Mill – Cancer Prevention and Control (D15)

UNCLCN Staff handle room upgrades, documentation, training, scheduling, and support for the following rooms.

Large Room

Small Room

Interviews

We receive frequent requests to set up and monitor online interviews. This includes:

- Creating online invitations.
- Testing with both interviewers and interviewees.
- Helping to solve any issues with connecting and proper audio and video.
- Monitoring the start of the Interview to make sure everything works correctly.
- Troubleshooting while Interview is going on, as needed.

Number of Interviews Supported

- 45 Interviews
- 45 Hours

Locations supported

- Physician's Office Building
- UNC LCCC – This is the bulk of our interviews.
- Off Site people connecting in through WebEx.

Activity Monitoring - Tim, Mary, Vene

The UNC Lineberger Cancer Network team monitors a broad variety of non-tumor board events, such as oncology events at the N.C. Cancer Hospital, Schwartz Rounds, etc.

Number of Non-Tumor Boards Monitored

- 198 Conferences
- 233 Hours
- Salesforce Cases solved 285

Highlights of 2021-22

Best Attended Webinars

- Patient Centered Care: Obesity, Cancer, and Disparities (Kirsten A. Nyrop, PhD)- 130 Participants
- Advanced Practice Provider: Oral Complications Associated with Cancer Therapy: Identification and Practical Approaches (Ali Shazib, DMD)- 123 Participants
- Research to Practice: Lung Cancer Management in North Carolina: Updates for 2022 (Shetal A. Patel, MD, PhD)- 98 Participants
- Southeastern American Indian Cancer Health Equity Partnership: Bridging the Bench and Bedside: The Amalgam of Academic Medicine and Its Effect on a Cancer Patient (Hannah E. Worlax, MD) - 57 Participants

Best Rated Webinars

- Patient Centered Care: Cancer Genetics and Genetic Testing – It's Not All in the Family (Kate Foreman, MS, CGC)
- Advanced Practice Provider: Common Infectious Disease Conundrums in Cancer (Tessa M. Andermann, MD, MPH)
- Research to Practice: Thoracic Surgical Oncology (Gita Mody, MD, MPH)
- Southeastern American Indian Cancer Health Equity Partnership: Building Cancer Care Collaboratives for the Seventh Generation (Rodney Haring, PhD, MSW)

CME credits awarded via UNCLCN monitored multidisciplinary tumor boards: 2,726

NCONA Patient Navigation in NC: Bridging Health Systems and Communities - June 24

Enhancing Quality of Care for Patients Living with Advanced Cancer – October 22

Highlights of 2021-22

Learning Portal

In 2017, UNCLCN put together our Learning Portal (learn.unclcn.org), where we house our Self-Paced, Online Courses. In 2021, we moved our Learning Portal to a new LMS, where we house our Live Telehealth webinars; Self-Paced, Online Courses; Non-Credit Courses; Community College Oncology; Introduction to the Pathology of Disease; Exploring Cancer; Oncology Clinical Trials; Hematology and Oncology Resident Training; and Investigator Initiated Trials.

Self-Paced, Online Courses

With each of our Telehealth webinars (Patient Centered Care, Advanced Practice Provider, Research to Practice, and Southeastern American Indian Cancer Health Equity Partnership), we take each live webinar's video recording, create an assessment, and acquire continuing education accreditation from several organizations. The Learning Portal allows healthcare professionals to earn continuing education credits at any time that is convenient for them.

Continuing Education Credits

UNCLCN has provided several types of continuing education credits for healthcare professionals: CME for physicians, NCPD/CNE for nurses, ACPE for pharmacists and pharmacy techs, and ASRT for radiation technologists. In late 2022, we added CTR for cancer registrars and are reaching out to registrars throughout North Carolina to inform them of these opportunities.

Significant improvements to our website at www.unclcn.org

In 2020, UNCLCN's website was redesigned to provide greater navigability for our users. Overall, the site is more visually appealing and easier to use.

Social Media Publicity

UNCLCN continues to use Facebook, Twitter, and LinkedIn to connect with potential attendees. We continue to refine our social media message and increase our number of followers on all three platforms so as to improve our attendance numbers on the Telehealth and Community College Oncology webinar series.

Behind the Scenes UNCLCN Newsletter

Our monthly newsletter, Behind the Scenes, informs the UNCLCN community about updates and additions to our Telehealth webinars, Community College Oncology lectures, HBCU courses, and more.

Highlights of 2021-22

MediaSite, YouTube, and VuMedi Libraries

UNCLCN continues to add each webinar to its MediaSite and YouTube libraries so as to make our webinars more readily available to both healthcare professionals and the lay public. We also work directly with MediaSite to improve the look and feel and functionality of their site for our webinar viewers. In 2020, the UNC Lineberger Cancer Network began making our Research to Practice webinars available on the VuMedi platform to increase awareness of our offerings with the VuMedi user base.

Downloadable library for Malawi, with selected videos formatted for limited network.

Significant improvements to UNCLCN studio

CPO Staff Meetings (10)

7/20 8/27 9/21 11/2 12/17 1/24 3/15 4/19 5/17 6/27

UNC NAPRC Site Summation Meeting

7/26

UNC Lineberger Community Pilot Funding Program Info Session

7/27

Interviews

David Corcoran	8/4
Yong Wang	8/9
Alberto Riva	8/11

What is Cancer?

8/27

Joint PPE Lab

9/1 10/6 12/1 1/5 2/2

Disparities in Clinical Treatment/ACCURE Study

9/3

Highlights of 2021-22

LCCC Clinical Research Course

9/8 9/29 10/6 10/13 10/20 11/3 11/10 12/15

Didactic Lectures

9/9 9/14 9/15 9/17 9/21 9/24 9/27 9/30 10/6 10/7 10/12 10/21
10/28 11/2 11/4 11/9 11/11 11/16 11/18 12/2 12/7 12/9 12/14 1/5
1/6 1/11 1/13 1/18 1/20 1/20 1/21 1/21 1/24 1/25, 2/1 2/3
2/22 2/24 3/3 3/8 3/15 3/16 3/24 3/31 4/13 5/26

Cancer Research Fund meeting (?)

9/9

Virology and Cancer Screening, Treatment and Health Disparities

9/10

Rigor & Reliability (R&R) Training (?)

9/13 10/4 11/1 12/6 1/10

Cancer from a Public Health Perspective

9/17

Diversity Workshop

9/20

Schwartz Rounds

9/20 10/18 11/15 12/20 1/10 2/21 3/21 4/18

Weekly Seminar

9/29 6/29

Global Oncology

10/1

Highlights of 2021-22

Seeking Racial Equity

10/4 10/11 10/25

ITCMS Postdoc Faculty Day

10/7

Precision Medicine and Immunotherapy

10/15

P01 Workshop

10/20 5/13

Financial Toxicity in Rural Populations

10/22

[EthosCE Support Community] User Led Discussion Series

10/28 1/27 2/24 3/31 4/28 5/26 6/30

Cancer and the Environment

11/5

Cancer Transitions

11/8 11/11 11/19 11/22

Cancer Survivorship Fall Seminar

11/8

Breast Cancer and Disparities in NC and Careers in Cancer

11/12

External Advisory Board (EAB)s

11/16

Highlights of 2021-22

Biology of Cancer

11/19

Geriatric Symposium

11/19

UNC-Duke Viral Oncology & AIDS Malignancy Symposium

12/9

Cancer Research Fund Committee

12/14

Clinical Research Town Hall

12/14

TREND

1/10 2/14 3/14 4/11 6/13

CRFC Meeting

2/10 6/16

5th Annual Chromatin and Epigenetics Symposium

3/3

COE Three Year Jubilee

3/18

How the Lineberger Cancer Center is Advancing Research by Serving the State and Engaging

3/24

Cancer Genetics meeting

4/12 5/10 6/14

Highlights of 2021-22

45th Annual LCCC Symposium

4/18

UNC Lineberger Spring 2022 Survivorship Research and Networking Forum

4/19

Lineberger Equity Council

5/20

ITCMS Directors Career Symposium

6/8

SR. Fellows Research Presentations

6/13

Looking Ahead

- Get REAL & HEEL
- Significant expansion of for-credit webinars via asynchronous attendance with enduring materials, which relies on a new LMS.
- Improvements to marketing, including:
 - Expanded use of social media.
 - Use of improved marketing automation and expanded collaboration with UNC LCCC Marketing and Communications.
- Integration of LMS and GoToWebinar for marketing intelligence and expanded site accessibility.
- Additional improvements to conference rooms.
- Closer collaboration with UNC Health Care system for provision of continuing education for healthcare system providers.
- Expansion of program for community colleges.
- Opportunities to increase support for oncology education efforts, both at LCCC and at the N.C. Cancer Hospital.
- Possible expansion of Tumor Boards.
- Possible expansion of webinars to NC county health departments.
- Possible expansion of webinars through coordination with targeted AHECs.
- Exploration of collaboration with primary care providers across the UNC Physicians Network.
- Possible expansion of education for clinical trials.