NCCN is an alliance of leading cancer centers devoted to patient care, research, and education.

Our mission is to improve and facilitate quality, effective, equitable, and accessible cancer care so all patients can live better lives.

Our vision is to define and advance high-quality, high-value, patient-centered cancer care globally.
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The National Comprehensive Cancer Network® (NCCN®) is a not-for-profit alliance of 31 leading cancer centers devoted to patient care, research, and education. To learn more, visit NCCN.org/cancercenters.
NCCN Member Institutions

Abramson Cancer Center
at the University of Pennsylvania
Philadelphia, PA

Case Comprehensive Cancer Center/
University Hospitals Seidman Cancer Center and
Cleveland Clinic Taussig Cancer Institute
Cleveland, OH

City of Hope National Medical Center
Duarte, CA

Dana-Farber/Brigham and Women’s
Cancer Center | Massachusetts General
Hospital Cancer Center
Boston, MA

Duke Cancer Institute
Durham, NC

Fox Chase Cancer Center
Philadelphia, PA

Fred & Pamela Buffett Cancer Center
Omaha, NE

Fred Hutchinson Cancer Research Center/
Seattle Cancer Care Alliance
Seattle, WA

Huntsman Cancer Institute at the University of Utah
Salt Lake City, UT

Mayo Clinic Cancer Center
Phoenix/Scottsdale, AZ
Jacksonville, FL
Rochester, MN

Memorial Sloan Kettering Cancer Center
New York, NY

Moffitt Cancer Center
Tampa, FL

O’Neal Comprehensive Cancer Center at UAB
Birmingham, AL

Robert H. Lurie Comprehensive Cancer
Center of Northwestern University
Chicago, IL

Roswell Park Comprehensive Cancer Center
Buffalo, NY

Siteman Cancer Center at Barnes-
Jewish Hospital and Washington
University School of Medicine
St. Louis, MO

St. Jude Children’s Research Hospital/
The University of Tennessee Health Science Center
Memphis, TN

Stanford Cancer Institute
Stanford, CA

The Ohio State University Comprehensive
Cancer Center - James Cancer Hospital
and Solove Research Institute
Columbus, OH

The Sidney Kimmel Comprehensive
Cancer Center at Johns Hopkins
Baltimore, MD

The University of Texas
MD Anderson Cancer Center
Houston, TX

UC Davis Comprehensive Cancer Center
Sacramento, CA

UC San Diego Moores Cancer Center
La Jolla, CA

UCLA Jonsson Comprehensive Cancer Center
Los Angeles, CA

UCSF Helen Diller Family
Comprehensive Cancer Center
San Francisco, CA

University of Colorado Cancer Center
Aurora, CO

University of Michigan Rogel Cancer Center
Ann Arbor, MI

University of Wisconsin Carbone Cancer Center
Madison, WI

UT Southwestern Simmons
Comprehensive Cancer Center
Dallas, TX

Vanderbilt-Ingram Cancer Center
Nashville, TN

Yale Cancer Center/Smilow Cancer Hospital
New Haven, CT
The National Comprehensive Cancer Network® (NCCN®) continues to grow in relevance and influence to ensure all patients can live better lives. As a leader in cancer care globally, we continue to evaluate our goals and mission. By incorporating “equitable” into our mission statement this year, a strategic focus will be to continue work to address and reduce disparities in cancer care so that every patient receives the best care possible.

This report provides an opportunity to reflect on our achievements and emphasize our efforts to improve the quality, effectiveness, equitability, and accessibility of cancer care globally.

In 2021, the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) were downloaded more than 13 million times — more than an 11% increase over 2020. This milestone achievement was possible due to more than 1,700 volunteer experts across the 31 NCCN Member Institutions who served on NCCN Guidelines® Panels. Our work together will continue in order to provide the most thorough and frequently updated clinical practice guidelines available in any area of medicine and expand the reach of this vital information.

Last year, we added three new NCCN Guidelines, including one pediatric guideline, to our library, bringing the total number of NCCN Guidelines to 82. In 2021, NCCN Guidelines were updated 215 times to reflect new scientific evidence and clinical information that may add to or alter current clinical practice standards to achieve optimal patient outcomes.

The COVID-19 pandemic continued to challenge the health care system in 2021, and NCCN staff and Member Institutions continued to adapt and collaborate to produce resources and recommendations to keep people with cancer as safe as possible. NCCN continued to enhance its wide array of virtual learning opportunities, events, policy summits, advocacy efforts, research programs, committees and advisory groups, and business programs. More people than ever are engaging with NCCN for live and recorded educational activities and applying new knowledge to advance high-quality, high-value, patient-centered cancer care, globally.
Message from the Chairman of the Board and the CEO

We continued to increase our ability to adapt and disseminate the critical knowledge contained in the NCCN Guidelines with 103 new and updated translations and adaptations of the NCCN Guidelines and associated resources. This expanded our library to 257 total translations of NCCN resources, with content translated into 53 different languages. NCCN’s library of patient resources now includes 60 NCCN Guidelines for Patients®, as well as 44 translated resources in 13 languages to empower patients everywhere with knowledge through their cancer journey. In 2021, 7 new NCCN Guidelines for Patients were created and, with support from the NCCN Foundation®, we continued our commitment to update existing patient resources.

Everything NCCN achieved in 2021 was made possible because of our dedicated team, which also continues to grow. We are truly grateful for our NCCN Member Institutions; members of boards, committees, and panels; supporters; staff; and all those who access our resources for helping lead the way to better care and outcomes for all people facing cancer.

Sincerely,

Ronald S. Walters, MD, MBA, MHA, MS
Chair, NCCN Board of Directors
Associate Head for the Institute for Cancer Care Innovation
The University of Texas
MD Anderson Cancer Center

Robert W. Carlson, MD
Chief Executive Officer
National Comprehensive Cancer Network
Quality Care through NCCN Guidelines

- **82** Total NCCN Guidelines
- **3** New NCCN Guidelines published in 2021:
  - Histiocytic Neoplasms
  - Malignant Peritoneal Mesothelioma
  - Wilms Tumor (Nephroblastoma)
- **60** NCCN Guidelines Panels
- **>1,700** NCCN Guideline Panels Members
- **>40,000** Hours NCCN Guidelines Panelists contributed
- **>1.5 million** Registered users of NCCN Guidelines
- **>4.2 million** Unique visitors to NCCN.org
In 2021, NCCN continued to lead in cancer care by providing all oncology stakeholders with reliable and up-to-date information through publication of and continuous updates to the library of NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) and associated clinical content.

The NCCN Guidelines® are a comprehensive set of guidelines detailing the sequential management decisions and interventions that currently apply to more than 97 percent of cancers affecting patients in the United States.

NCCN Member Institution volunteers seated on NCCN Guidelines Panels develop the NCCN Guidelines and continuously update and revise them to reflect the latest advances in preventive, diagnostic, treatment, and supportive services. NCCN Guidelines Panel Members include multidisciplinary, disease-specific sub-specialists who are both clinicians and researchers, as well as patient advocates. Each guideline undergoes annual institutional review where it is circulated for comment among the faculty at each NCCN Member Institution. External parties, including patients, patient advocates, clinicians outside the Member Institutions, industry, and/or payers, are invited to submit requests for specific issues or topics to be discussed by the NCCN Guidelines Panels.

In 2021, we optimized NCCN.org for its 4.2 million unique users to provide a more efficient user experience and seamless access to NCCN Guidelines and other resources.
About the Guidelines

NCCN Guidelines contain cancer care recommendations that are continuously updated and revised to reflect new data and clinical information.

• NCCN Categories of Evidence and Consensus are based on the level of clinical evidence available and the degree of consensus within NCCN Guidelines Panels.

• NCCN Categories of Preference clarify panel and institutional preferences for interventions, provide guidance to users of the NCCN Guidelines on which recommendation(s) is considered optimal, and continue to provide a wide range of recommendations to meet varying clinical circumstances and patient preferences.

• NCCN Guidelines with NCCN Evidence Blocks™ are a visual representation of five key measures that provide important transparent information about specific NCCN Guidelines recommendations that informs decisions about systemic therapies based upon treatment, supporting data, and cost. It is a starting point for shared decision-making considering the patient’s own value system.

Types of Guidelines

• NCCN Guidelines for Treatment by Cancer Type
• NCCN Guidelines for Detection, Prevention, & Risk Reduction
• NCCN Guidelines for Supportive Care
• NCCN Guidelines for Specific Populations
• NCCN Guidelines with NCCN Evidence Blocks™

Access to the Guidelines

• Free download online for non-commercial use from NCCN.org
• NCCN app
• Print copies
• Pocket Guidelines
• E-mail alerts (with subscription to NCCN Flash Updates™)
• Health Information Technology (HIT) companies
NCCN Guidelines® are the most thorough and frequently updated clinical practice guidelines available in any area of medicine.

There were more than 13 million downloads of NCCN Guidelines in 2021.

NCCN Guidelines Downloads By Year (millions)
## Resources Based on NCCN Guidelines

<table>
<thead>
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<th>Title</th>
<th>Description</th>
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| **NCCN Drugs & Biologics Compendium (NCCN Compendium®)** | Authoritative, scientifically derived information designed to support decision-making about the appropriate use of drugs and biologics in patients with cancer
  - Contains more than 6,317 active records
  - Updated in conjunction with the NCCN Guidelines on a continual basis
  - Recognized by public and private insurers as an authoritative reference for oncology coverage policy
  *Subscription-based searchable database*

| **NCCN Biomarkers Compendium®**                          | Information to support decision-making around the use of biomarkers in cancer care
  - Provides essential details for tests recommended by the NCCN Guidelines, such as tests that measure changes in genes or gene products for predictive, diagnosis, monitoring, surveillance, or prognostic information
  - Contains over 1,200 records
  *Subscription-based searchable database*

| **NCCN Imaging Appropriate Use Criteria (NCCN Imaging AUC™)** | Details of imaging recommendations included in the NCCN Guidelines
  - Available for more than 68 cancer types in addition to screening and supportive care covering approximately 1,200 recommendations
  - NCCN is recognized by Centers for Medicare & Medicaid Services (CMS) as a qualified provider-led entity for creation of the NCCN Imaging AUC™
  *Free searchable database*

| **NCCN Radiation Therapy Compendium™**                   | Information to support clinical decision-making around the use of radiation therapy in patients with cancer
  - Includes a full complement of over 975 radiation therapy recommendations found in the NCCN Guidelines
  - Contains 50 disease sites covering radiation therapy recommendations
  - Recognized by public and private insurers as an authoritative reference for oncology coverage policy
  *Subscription-based searchable database*

| **NCCN Chemotherapy Order Templates (NCCN Templates®)**   | Intended to improve the safe use of drugs and biologics in cancer care
  - Includes chemotherapy, immunotherapy, supportive care agents, monitoring parameters, and safety instructions
  - Special instructions for self-administered chemotherapeutic agents also provided
  - Contains more than 2,076 active templates
  - Downloaded more than 1.3 million times in 2021
  *Subscription-based searchable database*

Available online at [NCCN.org](http://NCCN.org).
In 2021, NCCN renewed qualification as a CMS-approved provider-led entity for the development of Imaging Appropriate Use Criteria.
The most frequently downloaded NCCN Guidelines in 2021

<table>
<thead>
<tr>
<th>NCCN Guidelines</th>
<th>Downloads</th>
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<tr>
<td>NCCN Guidelines for Breast Cancer</td>
<td>990,986</td>
</tr>
<tr>
<td>NCCN Guidelines for Non-Small Cell Lung Cancer</td>
<td>692,717</td>
</tr>
<tr>
<td>NCCN Guidelines for Prostate Cancer</td>
<td>525,670</td>
</tr>
<tr>
<td>NCCN Guidelines for Colon Cancer</td>
<td>457,403</td>
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Continuing to Keep Patients with Cancer Safe During COVID-19

Learn more and view resources at NCCN.org/Covid-19.

NCCN’s Advisory Committee on COVID-19 Vaccination and Pre-exposure Prophylaxis continually updated recommendations in 2021 to help cancer care providers make informed decisions on how to protect their patients from the ongoing COVID-19 pandemic based on the latest evidence plus expert consensus.

In January 2021, NCCN and the American Cancer Society led a nationwide effort with the message “Cancer Won’t Wait and Neither Should You.” This awareness campaign encouraged people to resume appropriate cancer screening and treatment during the COVID-19 pandemic and reached millions of people across the country.

Potential audience:
TV views: >168 million
News coverage: >5 million
NCCN Global Impact

47.3% Registered users of NCCN Guidelines outside of the United States

257 Total translations of the NCCN Guidelines and associated clinical resource
In 2021, NCCN’s library of translations grew by 6%, with 103 new and updated translations of NCCN Guidelines and associated resources published throughout the year. Various NCCN resources are translated into 53 languages and now 257 total translations are available.

New Collaborations to Expand Global Resources

NCCN formalized a collaboration with two leading oncology organizations in Poland, the Maria Sklodowska-Curie National Research Institute of Oncology (MSCNRI0) and Alliance for Innovation (AFI), to advance evidence-based cancer care in the region through the publication of NCCN Guidelines®: Poland Editions. The project is led by oncology thought leaders in Poland and also includes the Health Technology Assessment Agency, National Health Fund, Ministry of Health representatives as well as Polish patient advocacy groups. The first two NCCN Guidelines: Poland Editions for Cervical Cancer and Central Nervous System Cancers were published in fall 2021 and several others are planned.

NCCN embarked on a comprehensive new project in 2021 to impact access to evidence-based care for prostate cancer in the Latin American (LATAM) region. In collaboration with the Latin American Cooperative Oncology Group (LACOG), NCCN co-hosted a webinar with leading experts from Latin America and the United States that focused on key updates in the NCCN Guidelines for Prostate Cancer to optimize clinical management. Furthermore, to increase accessibility to NCCN Guidelines for non-English speaking providers, patients, family members, and caregivers in the LATAM region, NCCN translated both the clinical and patient guidelines for prostate cancer into Spanish and Portuguese.
NCCN continues to work on regional guidelines adaptations, translations, and harmonizations with local providers across Sub-Saharan Africa, the Middle East and North Africa (MENA), the Caribbean, and other countries in Asia, Europe, and South America.

**Additional Webinars and Educational Opportunities**

NCCN also started a new global policy webinar series to provide the opportunity for a varied group of global stakeholders to highlight and discuss meaningful patient engagement across the continuum of cancer care from diverse geographic perspectives.

NCCN and The Global Learning Collaborative announced a new collaboration to advance global cancer care through a comprehensive suite of education initiatives. The initiative is multi-format, multi-disciplinary, and multi-regional.

“It’s easier to predict cancer care needs when we work together to standardize care on an international scale—carefully adjusted for unique regional variations—improving quality while controlling costs.”

- Robert W. Carlson, MD
CEO, NCCN
In 2021, NCCN collaborated on a pilot project with the Maria Skłodowska-Curie National Research Institute of Oncology (MSCNRIO) and Alliance for Innovation (AFI) to develop new NCCN Guidelines®: Poland Editions.

(From left:) Piotr Rutkowski, MD, PhD, Deputy Director for National Cancer Strategy and Clinical Trials, MSCNRIO; Iwona Lugowska, MD, PhD, Plenipotentiary Director for International Affairs, MSCNRIO; Adam Krzywosądzki, Chargé d'Affairs, Embassy of Poland; Crystal S. Denlinger, MD, Senior Vice President, Chief Scientific Officer, NCCN; and Jan Walewski, MD, PhD, Director, MSCNRIO.
## Global NCCN Guidelines Resources

### NCCN Framework for Resource Stratification of NCCN Guidelines (NCCN Framework™)

The goal of the NCCN Framework™ is to define appropriate treatment pathways based on available resources and deliver a tool for health care providers to identify treatment options that will provide the best possible outcomes in resource-constrained settings.

- 19 NCCN Framework™ are available
- Covers ~75% of global incidence of cancers
- Outlines a rational approach for building cancer management systems based on the availability of resources in low- and middle-income countries where certain diagnostic tests and/or treatment approaches may be unavailable.

### NCCN Harmonized Guidelines™

Modified NCCN Guidelines targeted to regional resources in Sub-Saharan Africa and the Caribbean.

- Created as part of a collaborative global effort to combat skyrocketing cancer rates and unique circumstances of cancer care
- Includes pragmatic approaches that provide effective treatment options for resource-constrained settings
- 49 NCCN Harmonized Guidelines™ for Sub-Saharan Africa are available (including 3 new guidelines published in 2021); Updates are currently in progress for many of these guidelines.
- Seven NCCN Harmonized Guidelines™ for the Caribbean are available

### International Adaptations

Modified NCCN Guidelines to aid clinicians in determining appropriate and effective avenues of care in a specified country or region of the world.

- 27 NCCN Guidelines adaptations are available
- Developed by the host country or region’s oncology thought leaders in conjunction with NCCN Guidelines Panel Members
- Account for metabolic differences in populations, accessibility of technology, and regulatory status of health care technologies

### International Translations

NCCN Guidelines translated from English.

- 48 NCCN Guidelines and 32 clinical resources have been translated into one or more languages
- NCCN content has been translated into 53 different languages

*Available free online for non-commercial use at [NCCN.org](http://NCCN.org) and via the NCCN Mobile App.*
Downloads of NCCN Guidelines by Country in 2021
Research to Foster Innovative, Effective, and Equitable Cancer Care

$7.6 million
Approximate amount awarded to NCCN Member Institutions through NCCN Oncology Research Program (ORP) research initiatives:
- >$5.3 million awarded and managed by ORP
- >$2.4 million awarded by ORP and managed by the grantor

93
Posters presented virtually and published in JNCCN as part of the NCCN 2021 Virtual Annual Conference, including 6 presented in the oral poster session

203
Member Institution faculty and staff participated in ORP standing committees and ad hoc RFP development teams (RFPDT)

19
Active Young Investigator Awardees, including 7 newly funded investigators in 2021
The NCCN Oncology Research Program (ORP) fosters innovation and knowledge discovery to improve the lives of patients with cancer.

To improve the lives of patients with cancer, the ORP studies both FDA-approved and investigational agents/devices, pursuing innovative, effective, and equitable cancer therapy. In addition, they work to develop new insights into cancer care delivery outcomes and quality, as well as seek solutions to barriers affecting optimal cancer management. The ORP aims to increase opportunities for NCCN Member Institution faculty to participate in oncologic investigation and supports those who are, or will become, leaders in cancer research. Through presentations and/or publication in peer-reviewed journals, the ORP ensures the knowledge gained through the program is disseminated to the medical community at large. ORP collaborations between academia and industry are constructive, appropriate, and transparent, resulting in valuable knowledge that improves cancer management.

In addition to investigator-initiated research and quality improvement grants, the ORP facilitates the NCCN General Poster Session presented in conjunction with NCCN’s Annual Conference and oversees the NCCN Foundation Young Investigator Awards (YIA) program. The General Poster Session provides a venue for dissemination of evidence to improve cancer care, while Young Investigator Award funding supports the research of promising young investigators in their first full-time faculty appointments.
In 2021, Crystal S. Denlinger, MD, FACP (left), was named Senior Vice President, Chief Scientific Officer for NCCN. In this role, Dr. Denlinger helps develop the strategic direction for the organization and provides strategic direction and oversight to the ORP. “I am honored to be joining NCCN as Chief Scientific Officer,” said Dr. Denlinger. “NCCN represents the highest standards in cancer care, working tirelessly through treatment guidelines, research programs, education, and advocacy to elevate and improve cancer care every day.”

Additionally, Patricia White, PhD (left), was named Director of the ORP, where she oversees the management of the ORP.

**NCCN ORP initiated the following new collaborations in 2021:**

- A $1.3 million collaborative quality improvement initiative with AstraZeneca focused on improving patient care and outcomes in early stage non-small cell lung cancer;
- A $1.2 million quality improvement initiative with Eli Lilly and Company to improve biomarker testing and outcomes in lung and thyroid cancers;
- A $2 million collaborative quality improvement initiative with Pfizer, Inc. and Myovant Sciences to address cardiovascular risk and improve outcomes in patients with prostate cancer;
- A $1.2 million collaborative quality improvement initiative with Pfizer, Inc. and EMD Serono to improve patient care and outcomes in metastatic or advanced bladder cancers; and
- A $800,000 collaborative quality improvement initiative with AstraZeneca focused improving patient care and outcomes in small cell lung cancer.
NCCN ORP awarded funding to the following projects in 2021:

Phase I/II and/or Correlative Studies of the panHER Inhibitor Neratinib in the Treatment of Gastrointestinal, Lung, and Neurological Cancers

Funder: Puma Biotechnology  |  Oversight: NCCN ORP

- Rutika Mehta, MD, MPH, *Moffitt Cancer Center*
  - Phase 2 Study of Neratinib in Combination with Chemotherapy and Trastuzumab in HER2 Overexpressing Gastroesophageal Cancers

- Scott Plotkin, MD, PhD, *Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center*
  - Phase 2 Study of Neratinib for Adolescents and Adults with Neurofibromatosis 2 and Progressive NF2-Related Neoplasms: A Sub-Study of the INTUITT-NF2 Platform-Basket Trial (NCT04374305)

- Namrata Vijayvergia, MD, *Fox Chase Cancer Center*
  - Multi-Center Phase 1 Trial of Neratinib and Fam-Trastuzumab Deruxtecan in Advanced Refractory Gastric Cancer Patients

Phase I/II Clinical and Correlative/Preclinical Trials of Decitabine and Cedazuridine for Hematologic Malignancies and Solid Tumors

Funder: Taiho Oncology, Inc.  |  Oversight: NCCN ORP

- Michael Byrne, DO, *Vanderbilt-Ingram Cancer Center*
  - Phase 2 Study of Decitabine and Cedazuridine in Combination with Venetoclax for AML Relapse after Allogeneic Hematopoietic Cell Transplantation

- Gurkamal Chatta, MD, *Roswell Park Comprehensive Cancer Center*
  - A Phase IB Clinical Trial: Improving Outcomes with Androgen Pathway Inhibitors by Targeting DNA Methyltransferase Activity

- Martin McCarter, MD, *University of Colorado Anschutz Medical Campus*
  - Oral Decitabine/Cedazuridine (DEC-C) in Combination with Nivolumab as a Strategy to Enhance the Efficacy of Immune Checkpoint Blockade in Unresectable or Metastatic Mucosal Melanoma
Optimize Biomarker Driven Therapy in Lung and Thyroid Cancers

Funder: Eli Lilly and Company | Oversight: NCCN ORP

- Waddah Arafat, MD, *UT Southwestern Simmons Comprehensive Cancer Center*
  - Harnessing an Electronic Health Record (EHR) Genomics Module to Guide Clinical Decisions for Non-Small Cell Lung Cancer (NSCLC) Care

- Grace K. Dy, MD, *Roswell Park Comprehensive Cancer Center*
  - Multidisciplinary Workflow Optimization to Overcome Challenges in Biomarker Testing and to Expedite Biomarker-Based Treatment Decisions for Patients with NSCLC

- Cristina P. Rodriguez, MD, *Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance*
  - Streamlining Molecular Profiling of Thyroid Malignancies in an Academic Tertiary Referral Oncology Center and its Community Satellite Clinics

- John Strickler, MD, *Duke Cancer Institute*
  - Expansion of the Duke Molecular Tumor Board to Community Oncology Sites Across the Southeast to Support Adoption of Comprehensive Genomic Profiling and Biomarker Driven Therapy Selection for Lung and Thyroid Cancer Patients

In 2021, the NCCN ORP:

- Released 7 request for proposals (RFPs)
- Published 7 manuscripts and presented 2 abstracts from ORP for research projects
Quality Initiative for Patients with Early Stage Lung Cancer

Funder: AstraZeneca  |  Oversight: NCCN ORP

• Katharine Rendle, PhD, MSW, MPH, and Anil Vachani, MD, MS, *Abramson Cancer Center at the University of Pennsylvania*
  - Increasing Equitable Adherence to Annual Lung Cancer Screening and Diagnostic Follow-up

• Mary E. Cooley, PhD, RN, FAAN, and Michael J. Healey, MD, *Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center*
  - Optimizing the Process and Uptake of Lung Cancer Screening Among Patients, Providers, and Across the Health Care System

• Anurag K. Singh, MD; Sai Yendamuri, MD; and Elizabeth Bouchard, PhD, *Roswell Park Comprehensive Cancer Center*
  - Utilizing Patient Reported Quality of Life to Inform Patient Decision Making in Early Stage Lung Cancer

• Dan J. Raz, MD, *City of Hope National Medical Center*
  - Implementing an Early Lung Cancer Detection and Navigation Program in the Antelope Valley: Improving Access, Utilization and Outcomes in an Underserved Population

• Gina Kruse, MD, MPH, and Elyse R. Park, PhD, MPH, *Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center*
  - Attitudes about COVID and Vaccination on Intentions to Undergo Lung Cancer Screening in Urban and Rural Settings

• David Odell, MD, MMSC, FACS, and Nisha Mohindra, MD, MS, *Robert H. Lurie Comprehensive Cancer Center of Northwestern University*
  - A User-Centered Approach to Improve Treatment Outcomes in Early Stage Lung Cancer
Adoption of Biosimilars in Oncology

Funder: Pfizer Global Medical Grants (Pfizer) | Oversight: Pfizer

• Muhammad Beg, MD, UT Southwestern Simmons Comprehensive Cancer Center
  - Developing a Clinical Decision Support Tool for Biosimilar Use in Oncology

• Michelle Amsler, PharmD, Roswell Park Comprehensive Cancer Center
  - Identifying Best Practices in Biosimilar Implementation

• Hong-Phuc Nguyen, PharmD, City of Hope National Medical Center
  - Challenges to Biosimilar Adoption in Community Oncology Due to Diverse Payer Preferences for Different Biosimilar

• Claire Saxton, Cancer Support Community
  - Frankly Speaking About Cancer: Biosimilars – Researching Oncology Patient and Caregiver Perceptions

• Carolyn Brown, PhD, The University of Texas at Austin
  - Biosimilar Optimization in Community Oncology Practice

• Suwicha Limvorasak, PharmD, Cedars-Sinai Medical Center
  - Optimize Systemic Platform to Assure Quality, Value and Evidence-Based Decision Making on Biosimilar Products Use in Oncology Patients

• Elizabeth Papautsky, PhD, University of Illinois at Chicago
  - Developing a Human-Centered Information Packet to Increase Trastuzumab Biosimilars Uptake

• Alexander Quesenberry, PharmD, Baptist Memorial Hospital Tipton
  - Adoption of Biosimilars in Oncology

• Zhili Fu, PharmD, Houston Methodist
  - Impact of Discordant Preferred Drug Status between Hospitals and Payers for Chemotherapeutic Biosimilars
Enzalutamide in the Treatment of Prostate Cancer

**Funders:** Pfizer Global Medical Grants (Pfizer) and Astellas Pharma Global Development (Astellas) | **Oversight:** Pfizer and Astellas

- Joshi Alumkal, MD, *University of Michigan Rogel Cancer Center*
  - Clarifying Tumor and Microenvironmental Determinants of Enzalutamide Resistance

- Ajjai Alva, MBBS, *University of Michigan Rogel Cancer Center*
  - Novel Genomic Prognostic Model in Enzalutamide Treated Prostate Cancer

- Adam Sowalsky, PhD, *National Cancer Institute – Bethesda*
  - A Correlative Study of High-Risk Localized Prostate Cancers Treated with Neoadjuvant ADT Plus Enzalutamide Prior to Surgery to Assess the Molecular Basis for Sensitization with HER2 or HER3 Inhibition

- Russell Z. Szmulewitz, MD, *The University of Chicago Comprehensive Cancer Center*
  - Phase IIa Neoadjuvant Study of Enzalutamide and Androgen Deprivation with the Selective Glucocorticoid Receptor Antagonist Relacorilant for High-Risk Localized Castration-Sensitive Prostate Cancer

Development of Talazoparib for Prostate Cancer

**Funder:** Pfizer Global Medical Grants (Pfizer) | **Oversight:** Pfizer

- Adam Kibel, MD, and Oliver Jonas, PhD, *Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center*
  - Intratumor Microdevice to Identify Biomarkers and Pathways Associated with Response to Talazoparib

- Amado Zurita-Saavedra, MD, *The University of Texas MD Anderson Cancer Center*
  - Presurgical Phase II Study of Talazoparib in Combination with Enzalutamide in De Novo Metastatic to Lymph Nodes Prostate Cancer
## NCCN Resources for Research

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
<th>Access</th>
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</thead>
<tbody>
<tr>
<td><strong>NCCN Informed Consent Language (ICL) Database</strong></td>
<td>Comprehensive resource to assist researchers and clinical operations personnel with writing and amending informed consents for study participants</td>
<td>Free access at <a href="https://nccn.org">NCCN.org</a></td>
</tr>
<tr>
<td><strong>NCCN Points to Consider on the Best Practices for Biorepositories, Registries, and Databases</strong></td>
<td>Tool and resource for research investigators who plan to design, implement, and manage a research study which intends to deposit, transfer, and/or access specimens or data in a biorepository, registry, or database • Provides applicable principles, strategies, basic considerations, and best practices, with suggestions and examples to satisfy national and international standards, and funding agency and institutional requirements</td>
<td>Free access at <a href="https://nccn.org">NCCN.org</a></td>
</tr>
<tr>
<td><strong>NCCN Shared Resources Database</strong></td>
<td>Database through which investigators share more than 247 unique assets, including complex technologies, instrumentation facilities, advanced human tissue specimen analysis, animal models, and specialized databases • Enables collaborative research among cancer centers</td>
<td>Free access at <a href="https://nccn.org">NCCN.org</a></td>
</tr>
</tbody>
</table>
Research articles published in print *JNCCN* in 2021; additionally, 15 were published online only at JNCCN.org

>24,500
*JNCCN* Circulation

Impact factor measuring how frequently *JNCCN* is cited in other journals

11.908
JNCCN is dedicated to disseminating research results and new knowledge locally, nationally, and internationally while enhancing the collaboration between academic medicine and the community physician.

The journal provides the latest information on innovations in translational medicine, along with cutting-edge oncology health services research, including quality care and value, comparative and cost-effectiveness, public policy, and interventional research on supportive care and survivorship. JNCCN features updates on the NCCN Guidelines, including the NCCN Guidelines Insights, which provide behind-the-scenes views into the NCCN Guidelines Panel discussions that lead to important updates.

In 2021, JNCCN 360 continued to expand content by launching a new site, Biomarkers: NTRK Gene Fusions. This microsite is geared to cross tumor types with in-depth coverage of the role of biomarkers in diagnosing, monitoring, and treating patients with cancer. The journal continues to refine design elements, including updated email designs and contents.

**JNCCN Resources**

**JNCCN—Journal of the National Comprehensive Cancer Network**

Peer-reviewed, PubMed-indexed oncology journal
- 14 issues per year, including special editions on the NCCN Annual Conference and NCCN Annual Congress: Hematologic Malignancies™

*Available in print and online at JNCCN.org with a subscription*

**JNCCN 360**

An online resource that helps users quickly learn what’s new and important in the oncology world
- Organized by specific tumor type or disease and features links to key articles, trials, patient resources, videos, and more
- Spotlights focus on specific therapies with clinical recommendations, “pearls,” by practitioners who have hands-on experience with that therapy

*Free online at JNCCN360.org*
Engaging Stakeholders With Quality Content

810 People attended the Virtual NCCN Academy Programs

>22,000 Pocket-sized NCCN Guidelines distributed

>8,800 Number of individuals who receive NCCN Flash Updates™

93 Corporate Council Members

82 Health Information Technology (HIT) companies licensed NCCN Content
NCCN recognizes and appreciates the importance of ensuring that stakeholders have access to NCCN Guidelines and NCCN Content in whatever format they use. Throughout 2021, NCCN and oncology stakeholders continued to improve knowledge about evidence-based cancer care.

NCCN works with multiple organizations to disseminate NCCN Content and engages key stakeholders to enhance collaborative efforts to expand awareness of NCCN programs and resources. In addition, NCCN collaborates with public and private payers, employers, pharmacy benefits managers, and related organizations for effective use of the NCCN Guidelines and associated clinical content for the development, implementation, and assessment of coverage and quality policies and programs.

In 2021, NCCN expanded available resources with a new employer toolkit. This new resource is designed to help organizations make the best decisions possible when it comes to cancer care for their employees. The NCCN Employer Toolkit is available for free at NCCN.org/employertoolkit.
## Programs to Engage Stakeholders

<table>
<thead>
<tr>
<th>Program</th>
<th>Details</th>
</tr>
</thead>
</table>
| **NCCN Academy for Excellence & Leadership in Oncology™**              | Interactive program through which pharmaceutical and biotech professionals learn about pressing issues in oncology today and how to apply this knowledge  
  - Two meetings were held virtually in 2021  
  - Over 300 attendees                                                                                     |
| **NCCN Customized Academy for Excellence & Leadership in Oncology™**   | Opportunity to customize an NCCN Academy agenda that best aligns with organizations’ particular needs and interests  
  - One NCCN Customized Academy program was held in 2021  
  - Over 400 attendees                                                                                   |
| **NCCN Global Academy for Excellence & Leadership in Oncology™**       | Interactive program focused on pressing issues in the global oncology environment  
  - 110 attendees                                                                                          |
| **NCCN Corporate Council**                                            | Members work to enhance collaborative efforts among pharmaceutical, biotechnology, and diagnostic companies and NCCN to better serve patients  
  - Two NCCN Corporate Council meetings were held virtually in 2021  
  - 93 members                                                                                              |
| **NCCN Global Corporate Council**                                     | Advances the development and expansion of NCCN Global programs by providing the opportunity for open dialogue, collaboration, and support of NCCN's mission and vision outside the United States  
  - The 2021 meeting was held virtually  
  - 19 members                                                                                              |
Using the NCCN Guidelines at Point of Care

NCCN Content in Health Information Technology (HIT)
- Incorporated in health information technology (HIT), through permissions and licensing arrangements
  - 82 HIT companies licensed NCCN content in 2021 and can be viewed on NCCN.org/HIT

NCCN Content in Electronic Health Records (EHRs)
- Organizations use NCCN Content in electronic health records through licensing arrangements
  - Licensees of the NCCN Guidelines that provide decision support at point-of-care and NCCN Guidelines concordance reporting include Flatiron Assist, Integra Connect, McKesson Specialty Health Clear Value Plus™ (CVP), and Siemens Healthineers.
  - EHR companies that licensed NCCN Templates for point-of-care tools in 2021 include Cerner, CureMD, Epic, Flatiron OncoEMR, iKnowMed, IntegraCloud, Elekta, and MEDITECH

NCCN Flash Updates™
- Timely outlines of the most recent updates to NCCN products and resources direct to subscribers' and licensees' inboxes
  - NCCN sent 105 Flash Updates via e-mail in 2021
  - More than 8,800 individuals receive NCCN Flash Updates™

Programs to Engage Employers and Payers

Employer & Payer Initiatives
- NCCN works with commercial insurers, employers, and purchasers to ensure their members are receiving high-quality cancer care
  - NCCN Guidelines and associated resources are used for coverage determination for at least 85% of covered lives in the United States including by CMS for Medicare, and commercial payers and purchasers
  - NCCN convened a group of employers, employer coalition groups and benefits managers from across the country to develop the new NCCN Employer Toolkit

NCCN Employer Forums
- Employer stakeholders discuss the current state of oncology care and relevant healthcare issues The NCCN Employer Advisory Group includes employers and employer coalition groups that are responsible for covering millions of lives through their employer-sponsored plans
  - The 5th Annual 2021 NCCN Employer Forum was held virtually on October 27, 2021
“I have thoroughly enjoyed the 2021 NCCN Academy programs, particularly in this virtual environment. Year after year, the programs provide an opportunity to learn from provider, payer, and patient thought leaders about pressing issues in oncology. Not only can I learn from their own experiences and ask pertinent questions but they also provide solutions that are applicable to audience participants. The panels continue to be well rounded and highly dynamic.”

- Lori Lanphere
  Senior National Account Manager,
  Genentech
  2021 NCCN Academy Participant
Promoting Effective Policies

25 Articles, statements, comment letters, and endorsement letters written by the NCCN policy team

30 Virtual meetings with policymakers and administrators

48 State oncology societies engaged
In 2021, NCCN continued to lead the way by collaborating with healthcare policy stakeholders to ensure that NCCN continued to influence policy in support of our mission and vision.

To facilitate equitable access to quality care as recommended by NCCN Guidelines, NCCN collaborates with stakeholders to improve and facilitate quality cancer care and ensure the use of NCCN Guidelines in health policy and coverage determination and patient accessibility to guideline-concordant care.

NCCN, American Cancer Society Cancer Action Network (ACS CAN), and the National Minority Quality Forum (NMQF) presented new ideas in 2021 for overcoming inequality in oncology through the Elevating Cancer Equity Working Group. Workgroup recommendations included a new Health Equity Report Card to help providers, payers, and accreditation entities advance equitable care delivery. The report card included 17 measurable practice changes to directly address how medical systems in the United States often disproportionately fail minority patients. The Working Group also developed 16 policy recommendations to advance more equitable cancer care systems.
Elevating Cancer Equity

In February 2021, NCCN, American Cancer Society Cancer Action Network (ACS CAN), and the National Minority Quality Forum (NMQF) presented a webinar on Recommendations to Reduce Racial Disparities in Access to Guideline Adherent Cancer Care. The recommendations directly addressed how medical systems in the United States often disproportionately fail minority patients, particularly those who are Black and/or Indigenous, and made clear the case for urgent action.

Participants (from top):

Lisa Lacasse
President, American Cancer Society

Shonta Chambers, MSW
Patient Advocate Foundation

Robert Winn, MD
VCU Massey Cancer Center

Alyssa Schatz, MSW, Moderator
Senior Director, Policy and Advocacy
NCCN
NCCN Policy Programs

Defining the “New Normal” – 2021 and the State of Cancer Care in America Following 2020
June 15, 2021
This free online program brought together a diverse group of experts to discuss the resumption of recommended screening and clinical trials, how to apply health innovations from the COVID-19 pandemic to cancer treatment, and what concrete steps can be taken to address the systemic inequalities that lead to disparities in outcomes.

• Live webinar participants: 605

The Impact of Technology on Cancer Care in 2021
September 9, 2021
This free online program explored the rapid advancement of technology and its impact on cancer care. A diverse group of expert speakers and panelists discussed how innovation impacts patient outcomes, best practices for the use of technology within care delivery, and policies that influence and support technological advancements and access to high-quality care.

• Live webinar participants: 486

Advancements in Precision Medicine and Implications for Quality, Accessible, and Equitable Cancer Care
December 7, 2021
This free online program highlighted diverse perspectives for expanding precision medicine in order to improve cancer outcomes; including discussions on federal and state policies to broaden genetic/genomic testing access.

• Live webinar participants: 446
Educating Cancer Care Teams

203
CE activities

>54,800
CE credits earned

>62,300
Total participants
The NCCN Continuing Education (CE) Program continued to lead the way by impacting patient care while creating positive change in the competence and performance of the interprofessional oncology care team through high-quality educational programming.

The NCCN CE Program focuses on educating the interprofessional oncology care team on the application of evidence-based medicine and adherence to clinical practice guidelines, and providing the tools necessary to improve and facilitate quality, effective, and equitable cancer care so all patients can live better lives.

The Keynote Session at the NCCN 2021 Virtual Annual Conference continued important conversations to understand and reduce racial disparities in oncology care.

NCCN introduced the new NCCN Guidelines for Pediatric Cancers: A Webinar Series. The goal of this project was to ensure that members of the interprofessional oncology care team can apply the current standards of oncology care to optimize the management of pediatric patients with various cancer types. There was also review of new and emerging treatment strategies and how to incorporate these into the management of pediatric patients with cancer.

In addition, NCCN announced the new NCCN 2021 Virtual Congress: Biomarkers in Solid Tumors. This event addressed the increasing use of biomarker testing in the management of patients with solid tumors, the factors affecting the selection of the appropriate tests, and new developments in biomarkers testing. The congress included 8 educational sessions featuring a mix of challenging case reviews, real-time polling, and moderated Q&A sessions.
Virtual sessions to share and discuss the latest cancer therapies and provide updates on selected NCCN Guidelines, the data upon which the NCCN Guidelines are based, and quality initiatives in oncology.

**NCCN 2021 Virtual Annual Conference**  
March 18-20, 2021  
- Live virtual event attendees: 1,468  
- Recorded webcast viewers: 9,547

**NCCN 2021 Virtual Nursing Program: Advancing Oncology Nursing™**  
March 17, 2021  
- Live virtual event attendees: 655  
- Recorded webcast viewers: 3,405

**NCCN 2021 Virtual Oncology Fellows Program: New Horizons in Quality Cancer Care™**  
March 17, 2021  
- Live virtual event attendees: 57  
- Recorded webcast viewers: 1,590

Live virtual annual meeting where world-renowned experts in hematologic malignancies discuss the latest treatment advances, updates to the standard of care as recommended in NCCN Guidelines, and challenging patient cases.

**NCCN 2021 Virtual Annual Congress: Hematologic Malignancies™**  
October 14-16, 2021  
- Live webinar attendees: 533  
- Recorded webcasts launched in December 2021

**NCCN 2021 Virtual Nursing Forum: Advancing Oncology Nursing in Hematologic Malignancies™**  
October 8, 2021  
- Live webinar attendees: 198  
- Recorded webcast viewers: 668

Live meetings held by disease site to educate healthcare professionals on current and emerging scientific data that support evidence-based treatment decisions.

**NCCN 2021 Congress Series™: Virtual Breast Cancer with Updates from the 2020 San Antonio Breast Cancer Symposium™**  
February 12, 2021  
- Live webinar attendees: 751  
- Recorded webcast viewers: 8,002

**NCCN 2021 Virtual Congress: Biomarkers in Solid Tumors**  
November 12, 2021  
- Live webinar: 425  
- Recorded webcasts launched in December 2021
NCCN Continuing Education

NCCN Webinar Series

**NCCN Guidelines for Pediatric Cancers: A Webinar Series**
Series of 4 live webinars on how to effectively apply appropriate standard of care and specific recommendations in the NCCN Guidelines to optimize management of pediatric patients with various cancer types.
- Live webinar attendees: 1,010
- Recorded webcast viewers: 1,222

**NCCN Monthly Oncology Tumor Board Series™: A Multidisciplinary Approach to Individualized Patient Care**
Series of 12 multidisciplinary case-based live webinars on the management of patients with various cancer types.
- Live webinar attendees: 2,471
- Recorded webcast viewers: 4,753

**NCCN Pharmacy Updates: Webinar Series**
Webinar series designed for pharmacists and the oncology care team to review the clinical and patient considerations that influence how to effectively optimize the management of patients with various cancer types.
- Live webinar attendees: 3,263
- Recorded webcast viewers: 1,421

NCCN Guidelines® Insights

Articles published monthly in JNCCN that highlight why important decisions are made in the development of NCCN Guidelines®, and how to apply this information in clinical practice.

**Behind the Guidelines: Insights into the Standard of Care in Oncology 2021**
- Participants: 4,143

Throughout 2021, NCCN educational content covered more than 30 areas of cancer care, and participants could find options tailored by practice type and learning style.
## Additional Continuing Education Activities

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Attendees/Viewers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immuno-oncology Combinations in Advanced Renal Cell Carcinoma:</strong></td>
<td>Live community practice-based programs designed to help the oncology care team integrate recent findings into the treatment of their patients with RCC.</td>
<td>Live event attendees: 386</td>
</tr>
<tr>
<td><strong>Building on Recent Progress for Community Practices</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>HER2-Positive Breast Cancer: A Guide Through An Evolving Treatment</strong></td>
<td>Live webinar on applying practice-changing clinical data and expert recommendations to optimize clinical outcomes for their patients with HER2-positive breast cancer</td>
<td>Live webinar attendees: 403 Record webcast viewers: 1,430</td>
</tr>
<tr>
<td><strong>Landscape</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Exploring an Expanding AML Therapeutic Armamentarium: Expert Guidance</strong></td>
<td>Virtual satellite symposium at the 2021 ASCO Annual Meeting to help the oncology care team integrate recent findings into the treatment of patients with AML.</td>
<td>Live webinar attendees: 145 Record webcast viewers: 347</td>
</tr>
<tr>
<td><strong>Optimize Outcomes</strong></td>
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<tr>
<td><strong>Guideline Updates and Real-World Experiences in CLL:</strong></td>
<td>Virtual satellite symposium at the 2021 ASCO Annual Meeting to help the oncology care team integrate recent findings into the treatment of patients with CLL/SLL.</td>
<td>Live webinar attendees: 331 Record webcast viewers: 310</td>
</tr>
<tr>
<td><strong>State-of-the-Art Evidence and Next Questions</strong></td>
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<tr>
<td><strong>Combination Therapy in RCC:</strong></td>
<td>Virtual satellite symposium at the 2021 ASCO Annual Meeting to help the oncology care team integrate recent findings into the treatment of patients with RCC.</td>
<td>Live webinar attendees: 192 Record webcast viewers: 561</td>
</tr>
<tr>
<td><strong>Expert Guidance to Individualize Treatment and Improve Outcomes</strong></td>
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</tr>
<tr>
<td><strong>Urothelial Carcinoma: Novel Therapies and Strategies to Improve</strong></td>
<td>Online program to help the oncology care team integrate recent findings into the treatment of patients with urothelial carcinoma.</td>
<td>Online program viewers: 487</td>
</tr>
<tr>
<td><strong>Patient Outcomes</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Accurate Diagnosis and Personalized Treatment of NSCLC for the</strong></td>
<td>The goal of this initiative is to provide guidance to the interdisciplinary care team on how to develop practical testing protocols targeting genomic pathways for advanced NSCLC and how this information supports personalized treatment decisions for improved patient outcomes.</td>
<td>Online program viewers: 1,878</td>
</tr>
<tr>
<td><strong>Interdisciplinary Team</strong></td>
<td></td>
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</tbody>
</table>
## TARGET for NSCLC: The Advancing Research into Genomic Pathways and use of EGFR Therapies

Live community practice-based programs designed to help the oncology care team understand the latest advances in targeting genomic pathways for the treatment of NSCLC through a review of the current and ongoing research/clinical trials focused on new and emerging EGFR-based therapies.

- Live event attendees: 530
- Recorded webcast viewers: 133

## Acute Myeloid Leukemia: Evidence-Based Guidance on Current Paradigms and New Therapeutic Approaches

Satellite symposium preceding the 63rd ASH Annual Meeting and Exposition designed to help learners apply practice-changing clinical data and expert recommendations to optimize clinical outcomes for their patients with AML.

- Live event attendees: 720
- Recorded webcast launched in December 2021

## Applying Guideline Updates and Real-World Experience in CLL: Experts Review State-of-the-Art Evidence and Address Clinical Challenges

Satellite symposium preceding the 63rd ASH Annual Meeting and Exposition designed to help learners apply practice-changing clinical data and expert recommendations to optimize the use current/emerging therapeutic strategies in the care of their patients with CLL/SLL.

- Live event attendees: 394
- Recorded webcast launched in December 2021
“NCCN is known for bringing a multidisciplinary approach to oncology. Where a lot of other educational venues might focus on urology, or medical oncology, or radiation, NCCN brings together experts from all the fields to engage in a 360 approach to complex cancer cases, and that’s the gap I think that NCCN educational programs can fill.”

- Tanya Dorff, MD
  City of Hope National Medical Center
  Member, NCCN Prostate Cancer Panel
  2021 NCCN CE Participant
NCCN Foundation®
Report

60 total
NCCN Guidelines for Patients

7 new
NCCN Guidelines for Patients

23 updated
NCCN Guidelines for Patients

18 new
Webinar sessions and 2 new patient animations

13 new
Language translations of NCCN Guidelines for Patients

>6,000
In-person attendees and archive views of 2021 webinar sessions

183
Collaborations with Patient Advocacy Groups to promote access to and utilization of NCCN Guidelines for Patients

>1.4 million
Individual users of the NCCN Guidelines for Patients

>2.1 million
Downloads of the NCCN Guidelines for Patients
In 2021, the NCCN Foundation, the philanthropic arm of NCCN, made new strides in empowering people living with cancer and advancing oncology innovation by supporting the publication of more NCCN Guidelines for Patients®, securing funds to expand resources for patients, and funding a new group of promising young investigators through the NCCN Foundation Young Investigator Awards (YIA) Program.

In 2021, the NCCN Foundation made it possible for NCCN to publish 7 new NCCN Guidelines for Patients, 23 updated patient guidelines, 18 webinar sessions, 2 new patient animations, and 13 language translations.

NCCN also appointed Patrick Delaney as executive director for the NCCN Foundation in 2021. He continues to grow individual and corporate support for the NCCN Guidelines for Patients and other resources to empower people with cancer. Delaney also leads fundraising to support some of the nation’s top next-generation cancer researchers through the NCCN Foundation Young Investigators Awards.

Funding the NCCN Guidelines for Patients

NCCN Guidelines for Patients are patient-friendly versions of the NCCN Guidelines. They are based on the same treatment information doctors use and help patients, families, and caregivers talk with their clinicians about the best treatment options.

These step-by-step guides to the latest advances in cancer care feature:

- Questions to ask doctors
- Patient-friendly illustrations
- Glossaries of terms and acronyms
In 2021, NCCN Guidelines for Patients had more than 2.1 million downloads by over 1.4 million individuals.

<table>
<thead>
<tr>
<th>NCCN Guidelines for Patients: Invasive Breast Cancer</th>
<th>156,253 Downloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCCN Guidelines for Patients: Colon Cancer</td>
<td>113,948 Downloads</td>
</tr>
<tr>
<td>NCCN Guidelines for Patients: Stomach Cancer</td>
<td>77,127 Downloads</td>
</tr>
<tr>
<td>NCCN Guidelines for Patients: Metastatic Breast Cancer</td>
<td>75,240 Downloads</td>
</tr>
</tbody>
</table>

NEW NCCN Guidelines for Patients Published in 2021

- Anal Cancer
- Anemia and Neutropenia
- Basal Cell Skin Cancer
- Cervical Cancer
- Colorectal Cancer Screening
- Primary Cutaneous Lymphomas
- Small Cell Lung Cancer
# Patient and Caregiver Resources

## NCCN Guidelines for Patients®
Adapted NCCN Guidelines written in plain language to help patients, families, and caregivers talk to clinicians about the best treatment options
- Comprehensive library of 60 Guidelines for Patients

*Free online at [NCCN.org/patientguidelines](http://NCCN.org/patientguidelines) and via the NCCN Patient Guides for Cancer App*

## Global Language Translations
NCCN Guidelines for Patients translated from English
- NCCN Guidelines for Patients are translated into 13 languages
- Used by organizations around the world

*Free online at [NCCN.org/patientguidelines](http://NCCN.org/patientguidelines) and via the NCCN Patient Guides for Cancer App*

## Patient Webinars
NCCN Guidelines for Patients presented in a live online informational program
- 18 patient webinar sessions were held in 2021
- Presenters from multiple disciplines including providers, advocates, and patients
- Q&A section allows audience engagement

* Archived programs available free online at [NCCN.org/patientwebinars](http://NCCN.org/patientwebinars)*

## Patient Animations
NCCN Patient Animations take important concepts from the NCCN Guidelines for Patients and make them easier to comprehend by explaining them via animated videos
- 2 patient animations were created in 2021: Ovarian Cancer and Multiple Myeloma

*Available free online at [NCCN.org/patients](http://NCCN.org/patients)*
NCCN Foundation Executive Director Patrick Delaney (left) is pictured with Dottie Shead, NCCN Senior Director, Patient Information Operations.

“I am thrilled to join the team at NCCN as Executive Director of the NCCN Foundation,” said Delaney upon joining NCCN in February 2021. “I look forward to supporting initiatives that deliver true insight for people living with the challenges and complexities of a cancer diagnosis so they can take an active and informed role in their care and the care of their loved ones.”
NCCN Foundation

Educating Patients with Free Webinars

NCCN expanded its series of free *Know What Your Doctors Know* webinars for people living with cancer and their caregivers. These live informational programs are created in conjunction with NCCN Guidelines for Patients and supported by the NCCN Foundation. The webinars are also recorded and posted for anyone to view afterward as a value to future patients.

Growing Outreach with Collaborators

NCCN Foundation works with more than 180 patient advocacy organizations to collaborate on and promote the NCCN Guidelines for Patients.

Young Investigator Awards (YIA) Program

Since the program’s inception in 2011, the NCCN Foundation has awarded more than $8.7 million to 59 early career investigators from NCCN Member Institutions.

The NCCN Foundation YIA Program works with the NCCN Oncology Research Program to identify and nominate the most promising young investigators representing NCCN Member Institutions. Selected young investigators receive vital funding for cancer research to spur treatment innovation and career advancement. Awardee research is highlighted in many scientific healthcare publications and journals.

In 2021, YIA funders included AbbVie; Amgen Inc.; AstraZeneca; Merck & Co., Inc.; Pfizer Inc; Pharamcyclics, An AbbVie Company; and Sanofi Genzyme. The NCCN Foundation YIA Program was also supported by a grant from Genentech, a member of the Roche Group.

Together, the 2021 YIA program was granted over $1.2 million to support promising oncology researchers in the early stages of their careers.
2021 YIA Awardees

**Esra Akbay, PhD**  
*UT Southwestern Simmons Comprehensive Cancer Center*

Activating Anti-Tumor Innate Immunity to Overcome Checkpoint Blockade Resistance in NSCLC

**William C. Jackson, MD**  
*University of Michigan Rogel Cancer Center*

A Phase II Randomized Trial of Moderate versus Ultra-Hypofractionated Post-Prostatectomy Radiation Therapy

**Everett Moding, MD, PhD**  
*Stanford Cancer Institute*

Resolving Sarcoma Evolution During Tumor Development and Radiation Therapy

**Neelima Navuluri, MD, MPH**  
*Duke Cancer Institute*

Intervention Mapping to Improve Lung Cancer Screening Among Black Veterans

**Ravi Parikh, MD, MPP**  
*The Abramson Cancer Center at the University of Pennsylvania*

Machine Learning and Behavioral Nudges to Improve Palliative Care Utilization in Advanced Cancer

**Deborah Stephens, DO**  
*Huntsman Cancer Institute at the University of Utah*

Non-melanoma Skin Cancer (NMSC) in Patients with Chronic Lymphocytic Leukemia (CLL): Biology and Prevention

**Caitlin Zebley, MD, PhD**  
*St. Jude Children’s Research Hospital*

Epigenetic Reprogramming of Car T-Cell Therapy
NCCN Foundation Leadership

NCCN Foundation Board of Directors

The NCCN Foundation Board of Directors comprises volunteers with diverse backgrounds and experiences, all of whom share a passion for the mission of the NCCN Foundation.

They generously volunteer their time to make a difference in the lives of people with cancer.

Gena Cook / Chair
Concure Oncology

Heather J. Kopecky, PhD, MBA / Vice-Chair
Korn Ferry International

Jack Gentile / Secretary
Harborside Press, LLC

Ray Lynch, CPA, MBA / Treasurer
Fox Chase Cancer Center

Al B. Benson III, MD, FACP, FASCO
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Thomas A. D’Amico, MD
Duke Cancer Institute

Patrick J. O’Brien, MBA
Fox Chase Cancer Center

Denise Reinke, MS, NP, MBA
University of Michigan

Marc Samuels, JD, MPH
ADV1

Sara Silacci
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

Susan Stein, MPH
Turning Point Therapeutics

NCCN Foundation Finance Committee

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Concure Oncology

Ray Lynch, CPA, MBA
Fox Chase Cancer Center

Patrick J. O’Brien, MBA
Fox Chase Cancer Center

Denise Reinke, MS, NP, MBA
University of Michigan

Susan Stein, MPH
Turning Point Therapeutics

2021 Individual Donors

NCCN Foundation gratefully recognizes support from the following individuals.

$10,000 or more
Dawn and Jeff Byers
Wui-Jin Koh, MD
Sara Silacci
Stacey Starcher & Robert W. Carlson, MD

$5,000 - $9,999
Anthony Cutrone
Gerry & Jack Gentile
Kristina Gregory, MSN, RN, OCN
Conor Lynch
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Yvonne A. Efebera, MD, MPH

Gaffney-Mohr Family
Reverend Sean & Dr. Laura Slack
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Linda Leach
Alice Mims, MD, MS
Marilyn & James L. Mohler, MD
Lisle M. Nabell, MD
Miggie and Tom Olsson
Denise Reinke, MS, NP, MBA
Piotr Rutkowski
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Ahmad Shabsigh, MD
Dottie Shead, MS
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Peter D. Stetson, MD, MA
Jocelyn Ulrich, MPH
Thomas K. Varghese, Jr., MD, MS
Ronald S. Walters, MD, MBA, MHA, MS
Randal S. Weber, MD
Gerren K. Wilson, PharmD

$500 - $999
Pamela Becker and F. Marc Stewart
Alanah Fitch, PhD & Al Benson III, MD, FACP, FASCO
Richard Bold, MD, MBA
Charles Brown
Rebecca Caires, MBA
Wei Huang Chen
Crystal S. Denlinger, MD, FACP
Lawrence Fagan, MD, PhD
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Recognizes an individual on NCCN Staff who has made major contributions to the success of NCCN.

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National Comprehensive Cancer Network
# NCCN Leadership

## NCCN Executive Committee

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<thead>
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<th>Name</th>
<th>Institution</th>
</tr>
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<tbody>
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<tr>
<td>Catherine Sutherland, CIP</td>
<td>University of Colorado Cancer Center</td>
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<tr>
<td>John Tupin, JD</td>
<td>UC Davis Comprehensive Cancer Center</td>
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<tr>
<td>Jeanne Velders, JD, CIP</td>
<td>Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine</td>
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<td>Jessica L. Yoos, MA, MPhilEd, CIP</td>
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<td>David Freberg, MPA</td>
<td>Memorial Sloan Kettering Cancer Center</td>
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<td>Armen Gallucci, FACHE</td>
<td>Roswell Park Comprehensive Cancer Center</td>
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<td>Yolanda Garces, MD</td>
<td>Mayo Clinic Cancer Center</td>
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<td>Deborah Gentzen, MBA, BS</td>
<td>Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance</td>
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<td>Amy Hay</td>
<td>The University of Texas</td>
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<td>Katie Hoey</td>
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<td>Heidi Hesborn, MPH</td>
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<td>Steven C. Plaxe, MD, FACOG, FACS</td>
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<td>Henry Reyes</td>
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<td>Eben L. Rosenthal, MD</td>
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<tr>
<td>Terri Salter, MBA, RN, MSNA</td>
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<td>Joel Schwartz, MD</td>
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<td>Mark Sobczak, MD</td>
<td>Fox Chase Cancer Center</td>
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<td>Rob Stevenson, MBA</td>
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<td>Linda Sutton, MD</td>
<td>Duke Cancer Institute</td>
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City of Hope National Medical Center

Sameer A. Patel, MD, FACS
Fox Chase Cancer Center

Lori J. Pierce, MD
University of Michigan Rogel Cancer Center

Laura H. Rosenberger, MD, MS
Duke Cancer Institute

Hope S. Rugo, MD
UCSF Helen Diller Family Comprehensive Cancer Center
NCCN Leadership, Committees, Groups, and Panels

Central Nervous System Cancers Panel

Louis B. Nabors, MD / Chair
O'Neal Comprehensive Cancer Center at UAB

Jana Portnow, MD / Vice-Chair
City of Hope National Medical Center

Cervical/Uterine Cancers Panel

Nadeem R. Abu-Rustum, MD / Chair
Memorial Sloan Kettering Cancer Center

Cathryn M. Yashar, MD / Vice-Chair
UC San Diego Moores Cancer Center

Katherine B. Peters, MD, PhD, FAAN
Duke Cancer Institute

Vinay Puduvalli, MD
The University of Texas MD Anderson Cancer Center

Ian Robins, MD, PhD
University of Wisconsin Carbone Cancer Center

Jason Rockhill, MD, PhD
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

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University of Colorado Cancer Center

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St. Jude Children's Research Hospital/ The University of Tennessee Health Science Center

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Patrick Y. Wen, MD
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Nicole E. Willmarth, PhD
American Brain Tumor Association

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Karen Lisa Smith, MD, MPH
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Mary Lou Smith, MBA, JD
Research Advocacy Network

Hatem Soliman, MD
Moffitt Cancer Center

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O'Neal Comprehensive Cancer Center at UAB

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Stanford Cancer Institute

John H. Ward, MD
Huntsman Cancer Institute at the University of Utah

Kari B. Wisinski, MD
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Roswell Park Comprehensive Cancer Center

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Pierre Giglio, MD
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at the University of Utah

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at the University of Pennsylvania

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Warner K. Huh, MD
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Andrea Mariani, MD
Mayo Clinic Cancer Center

Katherine M. Moxley, MD, MS
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David G. Mutch, MD
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Pamela T. Soliman, MD, MPH
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at the University of Pennsylvania

Iskra Pusic, MD, MSCI
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

Michal G. Rose, MD
Yale Cancer Center/
Smilow Cancer Hospital

Chronic Myeloid Leukemia Panel

Neil P. Shah, MD, PhD / Chair
UCSF Helen Diller Family Comprehensive Cancer Center

Ravi Bhatia, MD / Vice-Chair
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Jessica K. Altman, MD
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Maria Amaya, MD, PhD
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Yale Cancer Center/
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James Thompson, MD, MS
*Roswell Park Comprehensive Cancer Center*

Jennifer Vaughn, MD, MSPH
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Jeanna Welborn, MD
*UC Davis Comprehensive Cancer Center*

David T. Yang, MD
*University of Wisconsin Carbone Cancer Center*

Asher A. Chanan-Khan, MD
*Mayo Clinic Cancer Center*

Steven E. Coutre, MD
*Stanford Cancer Institute*

Randall S. Davis, MD
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Armin Ghobadi, MD
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Muhammad Saad Hamid, MD
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Francisco J. Hernandez-Ilizaliturri, MD
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Manali Kamdar, MD
*University of Colorado Cancer Center*

Lawrence D. Kaplan, MD
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Nadia Khan, MD
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Thomas J. Kipps, MD, PhD
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Shuo Ma, MD, PhD
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Anthony Mato, MD
*Memorial Sloan Kettering Cancer Center*

Claudio Mosse, MD, PhD
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Jennifer A. Woyach, MD
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J. Christine Ye, MD, MSc
*University of Michigan Rogel Cancer Center*

**CLL/SLL/Hairy Cell Leukemia Panel**

William G. Wierda, MD, PhD / Chair
*The University of Texas MD Anderson Cancer Center*

**Jennifer R. Brown, MD, PhD / Vice-Chair**
*Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center*

Jeremy S. Abramson, MD, MMSc
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Farrukh Awan, MD
*UT Southwestern Simmons Comprehensive Cancer Center*

Syed F. Bilgrami, MD
*Yale Cancer Center/ Smilow Cancer Hospital*

Greg Bociek, MD, MSc
*Fred & Pamela Buffett Cancer Center*

Danielle Brander, MD
*Duke Cancer Institute*

**Colon/Rectal/Anal Cancers Panel**

Al B. Benson III, MD, FACP, FASCO / Chair
*Robert H. Lurie Comprehensive Cancer Center of Northwestern University*

**Alan P. Venook, MD / Vice-Chair**
*UCSF Helen Diller Family Comprehensive Cancer Center*

Mahmoud M. Al-Hawary, MD
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Nilofer Azad, MD
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Dustin A. Deming, MD  
*University of Wisconsin Carbone Cancer Center*

Linda M. Farkas, MD  
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Ignacio Garrido-Laguna, MD, PhD  
*Huntsman Cancer Institute at the University of Utah*

Jean L. Grem, MD  
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Andrew J. Gunn, MD  
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J. Randolph Hecht, MD  
*UCLA Jonsson Comprehensive Cancer Center*

Sarah E. Hoffe, MD  
*Moffitt Cancer Center*

Joleen Hubbard, MD  
*Mayo Clinic Cancer Center*

Steven Hunt, MD  
*Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine*

William Jeck, MD  
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Kimberly L. Johung, MD, PhD  
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Wells A. Messersmith, MD  
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Elizabeth Raskin, MD, FACS  
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*Memorial Sloan Kettering Cancer Center*

Charles J. Schneider, MD, FACP  
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John M. Skibber, MD  
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Eden Stotsky-Himelfarb, BSN, RN  
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Christopher G. Willett, MD  
*Duke Cancer Institute*

Esophageal/Gastric Cancers Panel

Jaffer A. Ajani, MD / Chair  
*The University of Texas MD Anderson Cancer Center*

Thomas A. D’Amico, MD / Vice-Chair  
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Farhood Farjah, MD  
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Hans Gerdes, MD  
*Memorial Sloan Kettering Cancer Center*

Michael Gibson, MD, PhD, FACP  
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Steven Hochwald, MD  
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Jill Lacy, MD  
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Cristina P. Rodriguez, MD  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Panayiotis S. Savvides, MD, PhD  
Mayo Clinic Cancer Center

---

**Head and Neck Cancers Panel**

**David G. Pfister, MD / Chair**  
Memorial Sloan Kettering Cancer Center

**Sharon Spencer, MD / Vice-Chair**  
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Douglas R. Adkins, MD  
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Anthony Cmelak, MD  
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A. Dimitrios Colevas, MD  
Stanford Cancer Institute
### NCCN Leadership, Committees, Groups, and Panels

**Hepatobiliary Cancers Panel**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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</thead>
<tbody>
<tr>
<td>Al B. Benson III, MD, FACP, FASCO</td>
<td>Chair</td>
</tr>
<tr>
<td>Robert H. Lurie Comprehensive Cancer Center of Northwestern University</td>
<td></td>
</tr>
<tr>
<td>Michael I. D’Angelica, MD</td>
<td>Vice-Chair</td>
</tr>
<tr>
<td>Memorial Sloan Kettering Cancer Center</td>
<td></td>
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<tr>
<td>Daniel E. Abbott, MD</td>
<td>University of Wisconsin Carbone Cancer Center</td>
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<tr>
<td>Daniel A. Anaya, MD</td>
<td>Moffitt Cancer Center</td>
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<tr>
<td>Robert Anders, MD, PhD</td>
<td>The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins</td>
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<tr>
<td>Chandrakanth Are, MBBS, MBA, FACS, FRCS</td>
<td>Fred &amp; Pamela Buffett Cancer Center</td>
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<tr>
<td>Melinda Bachini</td>
<td>Cholangiocarcinoma Foundation</td>
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<tr>
<td>Mitsesh J. Borad, MD</td>
<td>Mayo Clinic Cancer Center</td>
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<tr>
<td>Daniel B. Brown, MD, FSIR</td>
<td>Vanderbilt-Ingram Cancer Center</td>
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<td>Adam Burgoyne, MD, PhD</td>
<td>UC San Diego Moores Cancer Center</td>
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<td>Prabhleen Chahal, MD</td>
<td>Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute</td>
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<td>Daniel T. Chang, MD</td>
<td>Stanford Cancer Center</td>
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<td>Jordan M. Cloyd, MD</td>
<td>The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute</td>
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<tr>
<td>Sepideh Gholami, MD, FACS</td>
<td>UC Davis Comprehensive Cancer Center</td>
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<td>Evan S. Glazer, MD, PhD, FACS</td>
<td>St. Jude Children’s Research Hospital/ The University of Tennessee Health Science Center</td>
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<tr>
<td>Lipika Goyal, MD</td>
<td>Dana-Farber/Brigham and Women’s Cancer Center</td>
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<tr>
<td>William G. Hawkins, MD</td>
<td>Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine</td>
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<tr>
<td>Renuka Iyer, MD</td>
<td>Roswell Park Comprehensive Cancer Center</td>
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<td>Roijymon Jacob, MD</td>
<td>O’Neal Comprehensive Cancer Center at UAB</td>
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<td>Lawrence Jennings, MD, PhD</td>
<td>Robert H. Lurie Comprehensive Cancer Center of Northwestern University</td>
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<td>Robin K. Kelley, MD</td>
<td>UCSF Helen Diller Family Comprehensive Cancer Center</td>
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<td>Robin Kim, MD</td>
<td>Huntsman Cancer Institute at the University of Utah</td>
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<tr>
<td>Matthew H. Levine, MD, PhD</td>
<td>Abramson Cancer Center at the University of Pennsylvania</td>
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<td>Manisha Palta, MD</td>
<td>Duke Cancer Institute</td>
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<td>James O. Park, MD</td>
<td>Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance</td>
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<td>Steven S. Raman, MD</td>
<td>UCSF Helen Diller Family Comprehensive Cancer Center</td>
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<tr>
<td>Sanjay S. Reddy, MD, FACS</td>
<td>Fox Chase Cancer Center</td>
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<tr>
<td>Vaibhav Sahai, MBBS, MS</td>
<td>University of Michigan Rogel Cancer Center</td>
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<tr>
<td>Tracey Schefter, MD</td>
<td>University of Colorado Cancer Center</td>
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<tr>
<td>Gagandeep Singh, MD</td>
<td>City of Hope National Medical Center</td>
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<tr>
<td>Stacey M. Stein, MD</td>
<td>Yale Cancer Center/Smilow Cancer Hospital</td>
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<td>Jean-Nicolas Vauthey, MD</td>
<td>The University of Texas MD Anderson Cancer Center</td>
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<td>UCSF Helen Diller Family Comprehensive Cancer Center</td>
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<tr>
<td>Adam Yopp, MD</td>
<td>UT Southwestern Simmons Comprehensive Cancer Center</td>
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</table>

### Histiocytic Neoplasms Panel

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Ronald S. Go, MD</td>
<td>Chair</td>
</tr>
<tr>
<td>Mayo Clinic Cancer Center</td>
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<tr>
<td>Eric Jacobsen, MD</td>
<td>Vice-Chair</td>
</tr>
<tr>
<td>Dana-Farber/Brigham and Women’s Cancer Center</td>
<td>Massachusetts General Hospital Cancer Center</td>
</tr>
<tr>
<td>Robert Baiocchi, MD, PhD</td>
<td>The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute</td>
</tr>
</tbody>
</table>
NCCN Leadership, Committees, Groups, and Panels

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Hodgkin Lymphoma Panel

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University of Colorado Cancer Center

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Stuart Seropian, MD
Yale Cancer Center/Smilow Cancer Hospital
# Kidney Cancer Panel

**Robert J. Motzer, MD / Chair**  
Memorial Sloan Kettering Cancer Center

**Eric Jonasch, MD / Vice-Chair**  
The University of Texas  
MD Anderson Cancer Center

Neeraj Agarwal, MD  
Huntsman Cancer Institute at the University of Utah

Ajai Alva, MBBS  
University of Michigan  
Rogel Cancer Center

Michael Baine, MD, PhD  
Fred & Pamela Buffett Cancer Center

Kathryn Beckermann, MD, PhD  
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Elaine T. Lam, MD  
University of Colorado Cancer Center

Primo N. Lara, Jr., MD  
UC Davis Comprehensive Cancer Center

Clayton Lau, MD  
City of Hope National Medical Center

Bryan Lewis, JD  
Kidney Cancer Coalition

David C. Madoff, MD  
Yale Cancer Center | Smilow Cancer Hospital

Brandon Manley, MD  
Moffitt Cancer Center

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Sundhar Ramalingam, MD  
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Brian Shuch, MD  
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Zachary L. Smith, MD  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

Jeffrey A. Sosman, MD  
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

# Melanoma Panel

**Susan M. Swetter, MD / Chair**  
Stanford Cancer Institute

**John A. Thompson, MD / Vice-Chair**  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Mark R. Albertini, MD  
University of Wisconsin Carbone Cancer Center

Christopher A. Barker, MD  
Memorial Sloan Kettering Cancer Center

Joel Baumgartner, MD  
UC San Diego Moores Cancer Center

Genevieve Boland, MD, PhD  
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Bartosz Chmielowski, MD, PhD  
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Dominick DiMaio, MD  
Fred & Pamela Buffett Cancer Center

Alison B. Durham, MD  
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Ryan C. Fields, MD  
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The University of Tennessee Health Science Center

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Smilow Cancer Hospital

Brian Gastman, MD
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University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

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AIM at Melanoma

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Evan Wuthrich, MD
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Yan Xing, MD, PhD
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Multiple Myeloma/
Systemic Light Chain Amyloidosis/Waldenström Macroglobulinemia Panel

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UCLA Jonsson Comprehensive Cancer Center

Hans C. Lee, MD
The University of Texas MD Anderson Cancer Center
### NCCN Leadership, Committees, Groups, and Panels

**Myelodysplastic Syndromes Panel**

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<tr>
<th>Chair</th>
<th>Vice-Chair</th>
<th>Institution</th>
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<tr>
<td>Peter L. Greenberg, MD</td>
<td>Richard M. Stone, MD</td>
<td>Stanford Cancer Institute</td>
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<tr>
<td>Aref Al-Kali, MD</td>
<td>Mayo Clinic Cancer Center</td>
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<tr>
<td>John M. Bennett, MD</td>
<td>University of Rochester</td>
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<tr>
<td>Uma M. Borate, MD</td>
<td>The Ohio State University</td>
<td>Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute</td>
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<tr>
<td>Andrew M. Brunner, MD</td>
<td>Dana-Farber/Brigham and Women's Cancer Center</td>
<td>Massachusetts General Hospital Cancer Center</td>
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<td>Wanxing Chai-Ho, MD</td>
<td>UCLA Jonsson</td>
<td>Comprehensive Cancer Center</td>
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<tr>
<td>Peter T. Curtin, MD</td>
<td>City of Hope National Medical Center</td>
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<tr>
<td>Carlos M. De Castro, MD</td>
<td>Duke Cancer Institute</td>
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**Myeloproliferative Neoplasms Panel**

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<th>Institution</th>
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<td>Aaron T. Gerds, MD, MS</td>
<td>Jason Gottlib, MD, MS</td>
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<tr>
<td>Prithviraj Bose, MD</td>
<td>City of Hope National Medical Center</td>
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<tr>
<td>Andrew Dunbar, MD</td>
<td>Memorial Sloan Kettering Cancer Center</td>
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<tr>
<td>Amro Elshoury, MD</td>
<td>Roswell Park Comprehensive Cancer Center</td>
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<tr>
<td>Tracy I. George, MD</td>
<td>Huntsman Cancer Institute at the University of Utah</td>
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<tr>
<td>Krishna Gundabolu, MBBS, FACP</td>
<td>Fred &amp; Pamela Buffett Cancer Center</td>
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NCCN Leadership, Committees, Groups, and Panels

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Neuroendocrine Tumors Panel

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Valencia Thomas, MD
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Yaohui G. Xu, MD, PhD
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Mehran Yusuf, MD
O’Neal Comprehensive Cancer Center at UAB

Non-Small Cell Lung Cancer/Malignant Pleural Mesothelioma/Thymomas and Thymic Carcinomas Panel

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Edwin Yau, MD, PhD  
Roswell Park Comprehensive Cancer Center

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Alissa Marr, MD  
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Sarbajit Mukherjee, MD, MS  
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Bradford A. Perez, MD  
*Moffitt Cancer Center*

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Asif Rashid, MD  
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*Fox Chase Cancer Center*

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*Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center*

Steven W. Remmenga, MD  
*Fred & Pamela Buffett Cancer Center*

Premal Thaker, MD  
*Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine*

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**Ovarian Cancer Panel**

**Deborah K. Armstrong, MD / Chair**  
*The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins*

**Ronald D. Alvarez, MD, MBA / Vice-Chair**  
*Vanderbilt-Ingram Cancer Center*

Floortje J. Backes, MD  
*The Ohio State University Comprehensive Cancer Center* - *James Cancer Hospital and Solove Research Institute*

Jamie N. Bakkum-Gamez, MD  
*Mayo Clinic Cancer Center*

Lisa M. Barroilhet, MD  
*University of Wisconsin Carbone Cancer Center*

Kian Behbakht, MD  
*University of Colorado Cancer Center*

Andrew Berchuck, MD  
*Duke Cancer Institute*

Lee-May Chen, MD  
*UCSF Helen Diller Family Comprehensive Cancer Center*

Mihaela Cristea, MD  
*City of Hope National Medical Center*

Marie T. DeRosa, RN  
*Retired*

Eric L. Eisenhauer, MD  
*Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center*

David M. Gershenson, MD  
*The University of Texas MD Anderson Cancer Center*
NCCN Leadership, Committees, Groups, and Panels

Pancreatic Adenocarcinoma Panel

Margaret A. Tempero, MD / Chair
UCSF Helen Diller Family Comprehensive Cancer Center

Mokenge P. Malafa, MD, FACS / Vice-Chair
Moffitt Cancer Center

Mahmoud M. Al-Hawary, MD
University of Michigan
Rogel Cancer Center

Stephen W. Behrman, MD
St. Jude Children’s Research Hospital/
The University of Tennessee Health Science Center

Al B. Benson III, MD, FACP, FASCO
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Dana B. Cardin, MD
Vanderbilt-Ingram Cancer Center

E. Gabriela Chiorean, MD
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Vincent Chung, MD
City of Hope National Medical Center

Brian Czito, MD
Duke Cancer Institute

Marco Del Chiario, MD, PhD
University of Colorado Cancer Center

Mary E. Dillhoff, MD, MS
The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

Timothy R. Donahue, MD
UCLA Jonsson Comprehensive Cancer Center

Efrat Dotan, MD
Fox Chase Cancer Center

Cristina R. Ferrone, MD
Dana-Farber/B Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

Christos Fountzilas, MD
Roswell Park Comprehensive Cancer Center

Jeffrey Hardacre, MD
Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

William G. Hawkins, MD
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

Edward J. Kim, MD, PhD
UC Davis Comprehensive Cancer Center

Kelsey A. Klute, MD
Fred & Pamela Buffett Cancer Center

Andrew H. Ko, MD
UCSF Helen Diller Family Comprehensive Cancer Center

John W. Kunstman, MD, MHS
Yale Cancer Center/Smilow Cancer Hospital

Noelle K. LoConte, MD
University of Wisconsin Carbone Cancer Center

Andrew M. Lowy, MD
UC San Diego Moores Cancer Center

Cassadie Moravek, BS
Pancreatic Cancer Action Network

Eric K. Nakakura, MD
UCSF Helen Diller Family Comprehensive Cancer Center

Amol K. Narang, MD
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

Jorge Obando, MD
Duke Cancer Institute

Patricio M. Polanco, MD
UT Southwestern Simmons Comprehensive Cancer Center

Sushanth Reddy, MD
O’Neal Comprehensive Cancer Center at UAB

Marsha Reyngold, MD, PhD
Memorial Sloan Kettering Cancer Center

Courtney Scaife, MD
Huntsman Cancer Institute at the University of Utah

Jeanne Shen, MD
Stanford Cancer Institute

Mark J. Truty, MD, MS
Mayo Clinic Cancer Center

Charles Vollmer, Jr., MD
Abramson Cancer Center at the University of Pennsylvania

Robert A. Wolff, MD
The University of Texas MD Anderson Cancer Center

Brian M. Wolpin, MD, MPH
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

Pediatric Acute Lymphoblastic Leukemia Panel

Patrick A. Brown, MD / Chair
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

Hiroto Inaba, MD, PhD / Vice-Chair
St. Jude Children’s Research Hospital/
The University of Tennessee Health Science Center

Colleen Annesley, MD
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Jill Beck, MD
Fred & Pamela Buffett Cancer Center

Jong H. Chung, MD
UC Davis Comprehensive Cancer Center

Kevin J. Curran, MD
Memorial Sloan Kettering Cancer Center
### NCCN Leadership, Committees, Groups, and Panels

<table>
<thead>
<tr>
<th>Mari H. Dallas, MD</th>
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<tr>
<td><strong>Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute</strong></td>
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<td>Satiro N. De Oliveira, MD</td>
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<td><strong>UCLA Jonsson Comprehensive Cancer Center</strong></td>
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<td>Kara Kelly, MD</td>
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<td>Carrie L. Kitko, MD</td>
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<td><strong>Vanderbilt-Ingram Cancer Center</strong></td>
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<td>Mira Kohorst, MD</td>
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<td>Norman J. Lacayo, MD</td>
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<td>Luke D. Maese, DO</td>
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<td><strong>Huntsman Cancer Institute at the University of Utah</strong></td>
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<td>Kris M. Mahadeo, MD, MPH</td>
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<td><strong>The University of Texas MD Anderson Cancer Center</strong></td>
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<td>Valentina Nardi, MD</td>
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<td>Jenna Rossoff, MD</td>
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<td><strong>Robert H. Lurie Comprehensive Cancer Center of Northwestern University</strong></td>
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<td>Laura Schuettelpelz, MD, PhD</td>
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<td><strong>Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine</strong></td>
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<td>Bijal Shah, MD</td>
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<td><strong>Moffitt Cancer Center</strong></td>
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<td>Shilpa Shahani, MD</td>
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<td>Lewis B. Silverman, MD</td>
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<td>Jessica Sun, MD</td>
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<td>Victor Wong, MD</td>
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<td>Gregory Yanik, MD</td>
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**Pediatric Aggressive Mature B-Cell Lymphomas Panel**

**Matthew J. Barth, MD / Chair**
**Roswell Park Comprehensive Cancer Center**
**Ana C. Xavier, MD / Vice-Chair**
**O’Neal Comprehensive Cancer Center at UAB**

**Saro Armenian, DO, MPH**
**City of Hope National Medical Center**

**Anthony N. Audino, MD**
**The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute**

**David Bloom, MD**
**University of Michigan Rogel Cancer Center**

**Jong H. Chung, MD**
**UC Davis Comprehensive Cancer Center**

**Kimberly J. Davies, MD**
**Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center**

**Hilda Ding, MD**
**UC San Diego Moores Cancer Center**

**James B. Ford, DO**
**Fred & Pamela Buffett Cancer Center**

**Paul J. Galarady, MD**
**Mayo Clinic Cancer Center**

**Rabi Hanna, MD**
**Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute**

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<th>Robert Hayashi, MD</th>
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<td>Andrea Judit Machnitz, MD</td>
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<td>Kelly W. Maloney, MD</td>
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<td>Lianna Marks, MD</td>
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<td><strong>Stanford Cancer Institute</strong></td>
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<td>Paul Martin, MD, PhD</td>
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<td>David McCall, MD</td>
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<td>Anne F. Reilly, MD, MPH</td>
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<td>Mikhail Roshal, MD, PhD</td>
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<td>Sophie Song, MD, PhD</td>
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<td>Joanna L. Weinstein, MD</td>
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<td>Sara Zarnegar-Lumley, MD, MS</td>
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<td><strong>Vanderbilt-Ingram Cancer Center</strong></td>
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**Pediatric Central Nervous System Cancers Panel**

**Amar Gajjar, MD / Chair**
**St. Jude Children’s Research Hospital/The University of Tennessee Health Science Center**
**Anita Mahajan, MD / Vice-Chair**
**Mayo Clinic Cancer Center**

**Mohamed Abdelbaki, MD**
**Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine**
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UC Davis  
Comprehensive Cancer Center

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Ranjit Bindra, MD, PhD  
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Kenneth Cohen, MD, MBA  
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University of Colorado Cancer Center

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Carbone Cancer Center

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Nicholas Whipple, MD, MPH  
Huntsman Cancer Institute at the University of Utah

Wafik Zaky, MBCh  
The University of Texas  
MD Anderson Cancer Center

Vivian Chang, MD  
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The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

Don W. Coulter, MD  
Fred & Pamela Buffett Cancer Center

Branko Cuglievan, MD  
The University of Texas MD Anderson Cancer Center

Kenneth DeSantes, MD  
University of Wisconsin  
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Anusha Preethi Ganesan, MD, PhD  
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Bradford S. Hoppe, MD, MPH  
Mayo Clinic Cancer Center

Leidy Isenalumhe, MD  
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Kara Kelly, MD  
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Leslie Kersun, MD, MSCE, MEd  
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Adam Lamble, MD  
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Nicole Larrier, MD, MSc  
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Jeffrey Magee, MD, PhD  
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Martha Pacheco, MD  
UT Southwestern Simmons Comprehensive Cancer Center

Arun Ranjan Panigrahi, MD  
UC Davis  
Comprehensive Cancer Center

Anita P. Price, MD  
Memorial Sloan Kettering Cancer Center

Pediatric Hodgkin Lymphoma Panel

Jamie Flerlage, MD, MS / Chair  
St. Jude Children's Research Hospital/ 
The University of Tennessee Health Science Center

Susan M. Hiniker, MD / Vice-Chair  
Stanford Cancer Institute

Saro Armenian, DO, MPH  
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Adam J. Bobbey, MD  
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Nicole Larrier, MD, MSc  
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Martha Pacheco, MD  
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Arun Ranjan Panigrahi, MD  
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Anita P. Price, MD  
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Kenneth Roberts, MD
Yale Cancer Center/Smilow Cancer Hospital

Christine M. Smith, MD
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Aliyah R. Sohani, MD
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Emily Walling, MD, MPH
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Ana C. Xavier, MD
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Xin Gao, MD
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Abramson Cancer Center at the University of Pennsylvania

Eric M. Horwitz, MD
Fox Chase Cancer Center

Joseph E. Ippolito, MD, PhD
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Michael R. Kuettel, MD, PhD, MBA
Roswell Park Comprehensive Cancer Center

Joshua M. Lang, MD, MS
University of Wisconsin Carbone Cancer Center

Rana R. McKay, MD
UC San Diego Moores Cancer Center

Todd M. Morgan, MD
University of Michigan Rogel Cancer Center

George J. Netto, MD
O'Neal Comprehensive Cancer Center at UAB

David F. Penson, MD, MPH
Vanderbilt-Ingram Cancer Center

Julio M. Pow-Sang, MD
Moffitt Cancer Center

Robert Reiter, MD, MBA
UCLA Jonsson Comprehensive Cancer Center

Mack Roach III, MD
UCSF Helen Diller Family Comprehensive Cancer Center

Tyler P. Robin, MD, PhD
University of Colorado Cancer Center

Stan Rosenfeld
Retired

Ahmad Shabsigh, MD
The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

Benjamin A. Teply, MD
Fred & Pamela Buffett Cancer Center

Jonathan Tward, MD, PhD
Huntsman Cancer Institute at the University of Utah

Richard K. Valicenti, MD
UC Davis Comprehensive Cancer Center

Small Cell Lung Cancer Panel

Apar Kishor P. Ganti, MD / Chair
Fred & Pamela Buffett Cancer Center

Billy W. Loo, MD, PhD / Vice-Chair
Stanford Cancer Institute

Michael Bassetti, MD
University of Wisconsin Carbone Cancer Center

Collin Blakely, MD, PhD
UCSF Helen Diller Family Comprehensive Cancer Center

Anne Chiang, MD, PhD
Yale Cancer Center/Smilow Cancer Hospital

Thomas A. D'Amico, MD
Duke Cancer Institute

Christopher A. D'Avella, MD
Abramson Cancer Center at the University of Pennsylvania

Afshin Dowlati, MD
Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

Robert J. Downey, MD
Memorial Sloan Kettering Cancer Center

Martin J. Edelman, MD
Fox Chase Cancer Center

Charles Florsheim, JD
Patient Advocate

Kathryn A. Gold, MD
UC San Diego Moores Cancer Center

Jonathan Goldman, MD
UCLA Jonsson Comprehensive Cancer Center

NCCN Leadership, Committees, Groups, and Panels
### NCCN Leadership, Committees, Groups, and Panels

**John Grecula, MD**  
The Ohio State University  
Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

**Christine L. Hann, MD, PhD**  
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

**Wade T. Iams, MD**  
Vanderbilt-Ingram Cancer Center

**Puneeth Iyengar, MD, PhD**  
UT Southwestern Simmons Comprehensive Cancer Center

**Karen Kelly, MD**  
UC Davis  
Comprehensive Cancer Center

**Maya Khalil, MD**  
O’Neal Comprehensive Cancer Center at UAB

**Marianna Koczywas, MD**  
City of Hope National Medical Center

**Robert E. Merritt, MD**  
The Ohio State University  
Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

**Nisha A. Mohindra, MD**  
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

**Julian Molina, MD, PhD**  
Mayo Clinic Cancer Center

**Cesar A. Moran, MD**  
The University of Texas  
MD Anderson Cancer Center

**Saraswati Pokharel, MD**  
Roswell Park Comprehensive Cancer Center

**Sonam Puri, MD**  
Huntsman Cancer Institute at the University of Utah

**Angel Qin, MD**  
University of Michigan  
Rogel Cancer Center

**Chad Rusthoven, MD**  
University of Colorado Cancer Center

**Jacob Sands, MD**  
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

**Rafael Santana-Davila, MD**  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

**Michael Shafigue, MD**  
Moffitt Cancer Center

**Saiama N. Waqar, MD**  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

**Soft Tissue Sarcoma Panel**

**Margaret Von Mehren, MD / Chair**  
Fox Chase Cancer Center

**John M. Kane III, MD / Vice-Chair**  
Roswell Park Comprehensive Cancer Center

**Mark Agulnik, MD**  
City of Hope National Medical Center

**Marilyn M. Bui, MD, PhD**  
Moffitt Cancer Center

**Jani Carr-Asher, MD, PhD**  
UC Davis  
Comprehensive Cancer Center

**Edwin Choy, MD, PhD**  
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

**Mary Connolly, LSW**  
The Ohio State University  
Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

**Sarah Dry, MD**  
UCLA Jonsson Comprehensive Cancer Center

**Kristen N. Ganjoo, MD**  
Stanford Cancer Institute

**Ricardo J. Gonzalez, MD**  
Moffitt Cancer Center

**Ashley Holder, MD**  
O’Neal Comprehensive Cancer Center at UAB

**Jade Homsi, MD**  
UT Southwestern Simmons Comprehensive Cancer Center

**Vicki Keedy, MD, MSc**  
Vanderbilt-Ingram Cancer Center

**Ciara M. Kelly, MD, MBBCh, BAO**  
Memorial Sloan Kettering Cancer Center

**Edward Kim, MD**  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

**David Liebner, MD**  
The Ohio State University  
Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

**Rafael Santana-Davila, MD**  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

**Michael Shafigue, MD**  
Moffitt Cancer Center

**Saiama N. Waqar, MD**  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

**Martin McCarther, MD**  
University of Colorado Cancer Center

**Sean V. McGarry, MD**  
Fred & Pamela Buffett Cancer Center

**Nathan W. Mesko, MD**  
Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

**Christian Meyer, MD, PhD**  
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

**Alberto S. Pappo, MD**  
St. Jude Children’s Research Hospital/The University of Tennessee Health Science Center

**Ivy A. Petersen, MD**  
Mayo Clinic Cancer Center

**Seth Pollack, MD**  
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

**Matthew Poppe, MD**  
Huntsman Cancer Institute at the University of Utah

**Richard F. Riedel, MD**  
Duke Cancer Institute

**Scott Schuetze, MD, PhD**  
University of Michigan  
Rogel Cancer Center

**Jacob E. Shabason, MD, MTR**  
Abramson Cancer Center at the University of Pennsylvania

**Jason K. Sicklick, MD**  
UC San Diego Moores Cancer Center

**Matthew B. Spraker, MD, PhD**  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine
T-Cell/Primary Cutaneous Lymphomas Panel

**Melissa Zimel, MD**
UCSF Helen Diller Family Comprehensive Cancer Center

**Steven Horwitz, MD / Chair**
Memorial Sloan Kettering Cancer Center

**Stephen Ansell, MD, PhD / Vice-Chair**
Mayo Clinic Cancer Center

**Jeffrey Barnes, MD, PhD**
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

**Jonathan E. Brammer, MD**
The Ohio State University Comprehensive Cancer Center - James Cancer Hospital and Solove Research Institute

**Mark W. Clemens, MD**
The University of Texas MD Anderson Cancer Center

**Ahmet Dogan, MD, PhD**
Memorial Sloan Kettering Cancer Center

**Francine M. Foss, MD**
Yale Cancer Center/Smilow Cancer Hospital

**Paola Ghione, MD**
Roswell Park Comprehensive Cancer Center

**Aaron M. Goodman, MD**
UC San Diego Moores Cancer Center

**Joan Guitart, MD**
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

**Ahmad Halwani, MD**
Huntsman Cancer Institute at the University of Utah

**Bradley M. Haverkos, MD, MPH, MS**
University of Colorado Cancer Center

**Richard T. Hoppe, MD**
Stanford Cancer Institute

**Eric Jacobsen, MD**
Dana-Farber/Brigham and Women’s Cancer Center | Massachusetts General Hospital Cancer Center

**Deepa Jagadeesh, MD, MPH**
Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

**Allison V. Jones, MD, FAAD**
St. Jude Children's Research Hospital/The University of Tennessee Health Science Center

**Avyakta Kallam, MD, MBBS**
Fred & Pamela Buffett Cancer Center

**Youn H. Kim, MD**
Stanford Cancer Institute

**Kiran A. Kumar, MD, MBA**
UT Southwestern Simmons Comprehensive Cancer Center

**Neha Mehta-Shah, MD, MSCI**
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

**Elise A. Olsen, MD**
Duke Cancer Institute

**Saurabh A. Rajguru, MD**
University of Wisconsin Carbone Cancer Center

**Sima Rozati, MD, PhD**
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

**Jonathan Said, MD**
UCLA Jonsson Comprehensive Cancer Center

**Aaron C. Shaver, MD, PhD**
Vanderbilt-Ingram Cancer Center

**Lauren K. Shea, MD**
O’Neal Comprehensive Cancer Center at UAB

**Michi M. Shinohara**
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

**Lubomir Sokol, MD, PhD**
Moffitt Cancer Center

**Carlos Torres-Cabala, MD**
The University of Texas MD Anderson Cancer Center

**Ryan A. Wilcox, MD, PhD**
University of Michigan Rogel Cancer Center

**Peggy A. Wu, MD, MPH**
UC Davis Comprehensive Cancer Center

**Jasmine Zain, MD**
City of Hope National Medical Center

Testicular Cancer Panel

**Timothy D. Gilligan, MD, MS / Chair**
Case Comprehensive Cancer Center/University Hospitals Seidman Cancer Center and Cleveland Clinic Taussig Cancer Institute

**Daniel W. Lin, MD / Vice-Chair**
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

**Rahul Aggarwal, MD**
UCSF Helen Diller Family Comprehensive Cancer Center

**Nicholas G. Cost, MD**
University of Colorado Cancer Center

**Daniel N. Costa, MD**
UT Southwestern Simmons Comprehensive Cancer Center

**Nancy B. Davis, MD**
Vanderbilt-Ingram Cancer Center

**Ithaar H. Derweesh, MD**
UC San Diego Moores Cancer Center

**Alexandra Drakaki, MD, PhD**
UCLA Jonsson Comprehensive Cancer Center

**Hamid Emamekhoo, MD**
University of Wisconsin Carbone Cancer Center

**Christopher Evans, MD**
UC Davis Comprehensive Cancer Center

**Darren R. Feldman, MD**
Memorial Sloan Kettering Cancer Center

**Daniel M. Geynisman, MD**
Fox Chase Cancer Center

**Peter Humphrey, MD, PhD**
Yale Cancer Center/Smilow Cancer Hospital
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Ellis G. Levine, MD
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Thomas Longo, MD
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Joel Picus, MD
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Soroush Rais-Bahrami, MD
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Nirmish Singla
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Kanishka Sircar, MD
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David C. Smith, MD
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Benjamin A. Teply, MD
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Katherine Tzou, MD
Mayo Clinic Cancer Center

David Vanderweele, MD, PhD
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

David Vaughan, MD
Abramson Cancer Center at the University of Pennsylvania

Kosj Yamoah, MD, PhD
Moffitt Cancer Center

Jonathan Yamzon, MD
City of Hope National Medical Center

Thyroid Carcinoma Panel

Robert I. Haddad, MD / Chair
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Lindsay A. Bischoff, MD / Vice-Chair
Vanderbilt-Ingram Cancer Center

Douglas W. Ball, MD
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Victor Bernet, MD
Mayo Clinic Cancer Center

Erik Blomain, MD, PhD
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Naifa L. Busaidy, MD, FACP
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Michael Campbell, MD
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Paxton V. Dickson, MD
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Quan-Yang Duh, MD
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Hormoz Ehya, MD
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Whitney S. Goldner, MD
Fred & Pamela Buffett Cancer Center

Theresa Guo, MD
UC San Diego Moores Cancer Center

Megan Haymart, MD
University of Michigan Rogel Cancer Center

Shelby Holt, MD
UT Southwestern Simmons Comprehensive Cancer Center

Jason P. Hunt, MD
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Andrei Iagaru, MD
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Fouad Kandeel, MD, PhD
City of Hope National Medical Center

Rachel M. Kelz, MD, MBA, MSCE
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Dominick M. Lamonica, MD
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Stephanie Markovina, MD, PhD
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Bryan McIver, MD, PhD
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Christopher D. Raeburn, MD
University of Colorado Cancer Center

Rod Rezaee, MD
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John A. Ridge, MD, PhD, FACS
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Mara Y. Roth, MD
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Randall P. Scheri, MD
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Jatin P. Shah, MD, PhD
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Jennifer Sipos, MD
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Rebecca S. Sippel, MD
University of Wisconsin Carbone Cancer Center

Cord Sturgeon, MD
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Thomas N. Wang, MD, PhD
O'Neal Comprehensive Cancer Center at UAB

Lori J. Wirth, MD
Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center
### Wilms Tumor Panel

**Frank M. Balis, MD / Chair**  
Abramson Cancer Center at the University of Pennsylvania

**Daniel Green, MD / Vice-Chair**  
St. Jude Children's Research Hospital / The University of Tennessee Health Science Center

Clarke P. Anderson, MD  
City of Hope National Medical Center

Amy E. Armstrong, MD  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine

Erin Brown, MD  
UC Davis Comprehensive Cancer Center

Shelly M. Cook, MD  
University of Wisconsin Carbone Cancer Center

Jasreman Dhillon, MD  
Moffitt Cancer Center

Kenneth Gow, MD, MHA  
Fred Hutchinson Cancer Research Center / Seattle Cancer Care Alliance

Susan M. Hiniker, MD  
Stanford Cancer Institute

Rama Jasty-Rao, MD  
University of Michigan Rogel Cancer Center

Chi Lin, MD, PhD  
Fred & Pamela Buffett Cancer Center

Harold N. Lovvorn III, MD  
Vanderbilt-Ingram Cancer Center

Iain MacEwan, MD  
UC San Diego Moores Cancer Center

Julian A. Martinez–Agosto, MD, PhD, FABMG  
UCLA Jonsson Comprehensive Cancer Center

Elizabeth Mullen, MD  
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Erin Murphy, MD  
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Mark A. Ranalli, MD  
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Denise Rokitka, MD, MPH  
Roswell Park Comprehensive Cancer Center

Elisabeth (Lisa) T. Tracy, MD  
Duke Cancer Institute

Tamara Vern-Gross, DO  
Mayo Clinic Cancer Center

Michael Walsh, MD  
Memorial Sloan Kettering Cancer Center

Amy L. Walz, MD  
Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Jonathan Wickiser, MD  
UT Southwestern Simmons Comprehensive Cancer Center

Matthew Zapala, MD, PhD  
UCSF Helen Diller Family Comprehensive Cancer Center

### Breast Cancer Risk Reduction Panel

**Therese B. Bevers, MD / Chair**  
The University of Texas MD Anderson Cancer Center

**John H. Ward, MD / Vice-Chair**  
Huntsman Cancer Institute at the University of Utah

Gretchen M. Ahrendt, MD  
University of Colorado Cancer Center

Banu K. Arun, MD  
The University of Texas MD Anderson Cancer Center

Joshua G. Cohen, MD  
UCLA Jonsson Comprehensive Cancer Center

Graham A. Colditz, MD, DrPH, FAFPHM  
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Laura Fejerman, PhD, MSc  
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Shipra Gandhi, MD  
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M.D. Anderson Cancer Center

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Loretta S. Loftus, MD, MBA  
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Sofia D. Merajver, MD, PhD  
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Vanderbilt-Ingram Cancer Center

Rita Mukhtar, MD  
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Catherine C. Parker, MD  
O'Neal Comprehensive Cancer Center at UAB

Frances Pritchard, MD  
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Sandhya Pruthi, MD  
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Asal Rahimi, MD  
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Pavan Kumar Tandra, MBBS  
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Anne Wallace, MD, FACS  
UC San Diego Moores Cancer Center

Lee G. Wilke, MD, FACS  
University of Wisconsin Carbone Cancer Center

Rachel Yung, MD  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Breast Cancer Screening and Diagnosis Panel

Therese B. Bevers, MD / Chair  
The University of Texas  
MD Anderson Cancer Center

Mark Helvie, MD / Vice-Chair  
University of Michigan  
Rogel Cancer Center

Jennifer L. Baker, MD  
UC Davis Comprehensive Cancer Center

Debbie L. Bennett, MD  
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Ermelinda Bonaccio, MD  
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The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

Sona Chikarmane, MD  
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Emily F. Conant, MD  
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Constance Dobbins Lehman, MD, PhD  
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Mohammad Eghtedari, MD, PhD  
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Meghan R. Flanagan, MD, MPH  
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Tamaryla L. Hoyt, MD  
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Rachael B. Lancaster, MD  
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Bethany L. Niell, MD, PhD  
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Bhavika K. Patel, MD  
Mayo Clinic Cancer Center

Mark Pearlman, MD  
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Liane Philpotts, MD  
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Donna Plecha, MD  
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Jennifer K. Plichta, MD, MS  
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Research Advocacy Network

Roberta M. Strigel, MD, MS  
University of Wisconsin  
Carbone Cancer Center

Lusine Tumyan, MD  
City of Hope National Medical Center

Nicole S. Winkler, MD  
Huntsman Cancer Institute  
at the University of Utah

Colorectal Cancer Screening Panel

Reid M. Ness, MD, MPH / Chair  
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Xavier Llor, MD, PhD / Vice-Chair  
Yale Cancer Center/  
Smilow Cancer Hospital

Benjamin Abbadessa, MD  
UC San Diego Moores Cancer Center

Shrinivas Bishu, MD  
University of Michigan  
Rogel Cancer Center

Christopher Chen, MD  
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Gregory Cooper, MD  
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Dayna S. Early, MD  
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Mark Friedman, MD  
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David Fudman, MD  
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Francis M. Giardiello, MD, MBA  
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Kathryn Glaser, PhD, MA  
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Surya R. Gurudu, MD  
Mayo Clinic Cancer Center

Michael J. Hall, MD, MS  
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Amy Halverson, MD  
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Rachel Issaka, MD, MAS  
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Jonathan Terdiman, MD  
UCSF Helen Diller Family Comprehensive Cancer Center

Jennifer M. Weiss, MD, MS  
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Genetic/Familial High-Risk Assessment: Breast, Ovarian, and Pancreatic Panel

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Fox Chase Cancer Center

Tuya Pal, MD / Vice-Chair  
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Saundra S. Buys, MD  
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Jane Churpek, MD, MS  
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Patricia Dickson, MD  
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Susan M. Domchek, MD  
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Ahmed Elkhanany, MD  
O’Neal Comprehensive Cancer Center at UAB

Susan Friedman, DVM  
FORCE: Facing Our Risk of Cancer Empowered

Michael Goggins, MD  
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Ashley A. Hendrix, MD  
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Mollie Hutton, MS, CGC  
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Seema Khan, MD  
Robert H. Lurie Comprehensive Cancer Center of Northwestern University
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Genetic/Familial High-Risk Assessment: Colorectal Panel

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Lisen Axell, MS
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Katherine M. Clayback, MS, CGC
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Andrew Wolf, MD  
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Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center

Mae Zakhour, MD  
UCLA Jonsson Comprehensive Cancer Center

Lung Cancer Screening Panel

Douglas E. Wood, MD, FACS, FRCSEd / Chair  
Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance

Ella A. Kazerooni, MD, MS / Vice-Chair  
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Denise Aberle, MD  
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Lisa M. Brown, MD, MAS  
UC Davis Comprehensive Cancer Center
Georgie A. Eapen, MD  
The University of Texas MD Anderson Cancer Center
David S. Ettinger, MD, FACP, FCCP  
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J. Scott Ferguson, MD  
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Lifang Hou, MD, PhD  
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Dipen Kadaria, MD  
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Donald Klippenstein, MD  
Moffitt Cancer Center
Ana S. Kolansky, MD  
Abramson Cancer Center at the University of Pennsylvania
Rohit Kumar, MD  
Fox Chase Cancer Center
Rudy P. Lackner, MD  
Fred & Pamela Buffett Cancer Center
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Peter Mazzone, MD, MPH  
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Mark Onaitis, MD  
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Christie Pratt, DHSc, MA  
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Varun Puri, MD, MSCI  
Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine
Dan Raz, MD, MAS  
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Chakravarthy Reddy, MD  
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Mary E. Reid, PhD  
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Kim L. Sandler, MD  
Vanderbilt-Ingram Cancer Center
Jacob Sands, MD  
Dana-Farber/Brigham and Women's Cancer Center | Massachusetts General Hospital Cancer Center
Matthew B. Schabath, PhD  
Moffitt Cancer Center

Prostate Cancer Early Detection Panel

Kelvin A. Moses, MD, PhD / Chair  
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Preston C. Sprenkle, MD / Vice-Chair  
Yale Cancer Center/ Smilow Cancer Hospital
Geoffrey Box, MD  
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Sigrid V. Carlsson, MD, PhD, MPH  
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Peter R. Carroll, MD, MPH  
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William J. Catalona, MD  
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Geoffrey Sonn, MD  
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Mark D. Tyson II, MD, MPH  
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Neha Vapiwala, MD  
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Alice Yu, MD, MPH  
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Suzanne A. Nesbit, PharmD, BCPS  
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NCCN Guidelines for Supportive Care Panels

Adult Cancer Pain Panel

Robert A. Swarm, MD / Chair  
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Jeanie M. Youngwerth, MD / Vice-Chair  
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Julia L. Agne, MD  
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Jill Sindt, MD
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Justine Yang Bruce, MD
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Caitlin Bowman, PharmD, BCOP
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Debra Brandt, DO
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Christine Hong, PharmD, MBA
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Andrea Iannucci, PharmD, BCOP
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Dean Lim, MD
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Cynthia X. Ma, MD, PhD
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Cancer-Associated Venous Thromboembolic Disease Panel

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Bjorn Holmstrom, MD / Vice-Chair
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Oxana Palesh, PhD, MPH
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Cancer-Related Fatigue Panel

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Distress Management Panel

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Hematopoietic Cell Transplantation Panel

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Management of Immunotherapy-Related Toxicity Panel

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Palliative Care Panel

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Prevention and Treatment of Cancer-Related Infections Panel

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Smoking Cessation Panel

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NCCN Guidelines for Specific Populations Panels

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O'Neal Comprehensive Cancer Center at UAB

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Katherine Clifton, MD
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Gita Suneja, MD, MSHP / Co-Chair
Huntsman Cancer Institute at the University of Utah

Rami Al-Rohil, MBBS
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<tr>
<th>Name</th>
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<tr>
<td>Cary P. Gross, MD</td>
<td>Yale Cancer Center/Smilow Cancer Hospital</td>
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<tr>
<td>Sumati Gupta, MD</td>
<td>Huntsman Cancer Institute at the University of Utah</td>
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<td>Reshma Jagsi, MD, DPhil</td>
<td>University of Michigan Rogel Cancer Center</td>
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<td>Beatrix Korc-Grodzicki, MD, PhD</td>
<td>Memorial Sloan Kettering Cancer Center</td>
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<td>Mary Pat Lynch, DNP, RN, NEA-BC, AOCN</td>
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<td>June M. McKoy, MD, MBA, JD, MPH</td>
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“The NCCN Guidelines aren’t just the recognized standard for clinical direction and policy in cancer care and the most thorough and frequently updated clinical practice guidelines available in any area of medicine—they also represent how we want our own loved ones and ourselves to be treated.”

- Robert W. Carlson, MD, CEO

2021 World Cancer Day campaign

where NCCN employees shared personal stories about loved ones with cancer.

NCCN.org/home/world-cancer-day