

Applying Big Data to Address the Social Determinants of Health in Oncology

A National Cancer Policy Forum Workshop

In Collaboration with the Committee on Applied and Theoretical Statistics

The National Academies of Sciences
2101 Constitution Avenue, NW, Lecture Room
Washington, DC 20418

October 28, 2019	
7:30 am	Registration and Breakfast
8:00 am	<p>Welcome from the National Cancer Policy Forum and Board on Mathematical Sciences and Analytics Robert Winn, University of Illinois at Chicago Planning Committee Chair</p> <p>Nicholas Horton, Amherst College Committee on Applied and Theoretical Statistics</p>
8:10 am	<p>Session 1: Workshop Overview <i>Moderator:</i> Victoria Seewaldt, City of Hope</p> <p>The Social Determinants of Health and their Influence on Cancer Risk and Outcomes</p> <ul style="list-style-type: none"> John Ayanian, University of Michigan Chanita Hughes-Halbert, Medical University of South Carolina <p>Opportunities to Leverage Big Data and Analytic Methods to Promote the Health of Individuals and Communities</p> <ul style="list-style-type: none"> Paul Tang, IBM Watson Health David Steiner, Google Health Beth Virnig, ResDAC and University of Minnesota <p>Advancing Health Equity and Fairness in Big Data Applications in Oncology</p> <ul style="list-style-type: none"> Scarlett Lin Gomez, UCSF Helen Diller Family Comprehensive Cancer Center <p>Panel Discussion Speakers plus:</p> <ul style="list-style-type: none"> Gwen Darien, National Patient Advocate Foundation Mary Jackson Scroggins, Pinkie Hugs, LLC Nicole Stern, Association of American Indian Physicians
10:15 am	Break

10:30 am	<p>Session 2: Highlighting Novel Data Sources and Methodologies <i>Co-Moderators:</i> Rebecca Miksad, Flatiron Health and Nicholas Horton, Amherst College</p> <p><u>Lightning Presentations</u></p> <p>Geospatial Mapping</p> <ul style="list-style-type: none"> • Marta Jankowska, University of California, San Diego <p>Opportunities for Real World Data</p> <ul style="list-style-type: none"> • Blythe Adamson, Flatiron Health <p>Observational Health Data Sciences and Informatics (OHDSI)</p> <ul style="list-style-type: none"> • David Madigan, Columbia University <p>Neighborhood-level Social Determinants and Cancer Outcomes</p> <ul style="list-style-type: none"> • Loretta Erhunmwunsee, City of Hope <p>Citizen Science and Digital Health Data</p> <ul style="list-style-type: none"> • Abby King, Stanford University <p>Applying Environmental Data in Cancer Research</p> <ul style="list-style-type: none"> • Jaime Hart, Harvard T.H. Chan School of Public Health <p>Regulatory Considerations with Novel Data Sources and Methods</p> <ul style="list-style-type: none"> • Sean Khozin, Food and Drug Administration Oncology Center of Excellence <p>Panel Discussion</p>
12:15 pm	Lunch Break & Poster Session
1:15 pm	<p>Session 3: Data Policy and Ethical Considerations <i>Moderator:</i> Timothy Rebbeck, Dana-Farber Cancer Institute</p> <p>Ensuring Equity and Representativeness in Oncology Research</p> <ul style="list-style-type: none"> • Augusto Ochoa, Louisiana State University Stanley S. Scott Cancer Center <p>Data Security and Patient Privacy Issues with the Use of Big Data</p> <p>Ethical Perspective</p> <ul style="list-style-type: none"> • I. Glenn Cohen, Harvard Law School (presenting remotely) <p>Privacy in the Use of Big Data for Research</p> <ul style="list-style-type: none"> • Kristen Rosati, Coppersmith Brockelman PLC <p>Technical Algorithmic Perspective</p> <ul style="list-style-type: none"> • Osonde Osoba, RAND <p>Panel Discussion Speakers plus:</p>

	<ul style="list-style-type: none"> Monica Webb Hooper, Case Comprehensive Cancer Center
3:15 pm	Break
3:30 pm	<p>Session 4: Priorities and Opportunities for Collaboration and Data Sharing to Promote Health Equity Moderator: Karen Basen-Engquist, MD Anderson Cancer Center</p> <p>State-wide Cancer Consortia Efforts: The Washington State Community Cancer Report</p> <ul style="list-style-type: none"> Scott Ramsey, Hutchinson Institute for Cancer Outcomes Research <p>GRAVITY Project: Standardizing Social Determinants of Health Data in EHRs to Facilitate Interoperability</p> <ul style="list-style-type: none"> Caroline Fichtenberg, University of California, San Francisco and Social Interventions Research & Evaluation Network (presenting remotely) <p>Health Care Organizations</p> <ul style="list-style-type: none"> John Steiner, Kaiser Permanente Social Needs Network for Evaluation and Translation <p>Cancer Centers</p> <ul style="list-style-type: none"> Cornelia Ulrich, Huntsman Cancer Institute <p>Opportunities to Leverage and Link Cancer Registry Data with Other Sources</p> <ul style="list-style-type: none"> Lynne Penberthy, National Cancer Institute <p>Panel Discussion Speakers plus:</p> <ul style="list-style-type: none"> John Michael Gaziano, Veterans Health Administration's Million Veteran Program
5:45 pm	Wrap up Day 1 Reception with Continued Poster Session
October 29, 2019	
7:30 am	Registration and Breakfast
8:00 am	<p>Session 5: Identifying Research Gaps and Setting a Research Agenda Moderator: Robin Yabroff, American Cancer Society</p> <p>Panelists:</p> <ul style="list-style-type: none"> Lisa Richardson, Centers for Disease Control and Prevention Eliseo Pérez-Stable, National Institute on Minority Health and Health Disparities Tony Kerlavage, National Cancer Institute Center for Biomedical Informatics & Information Technology Cara James, Office of Minority Health, Centers for Medicare & Medicaid Services

	<ul style="list-style-type: none"> • Arlene Ash, University of Massachusetts Medical School • Clifford Hudis, American Society of Clinical Oncology • Deborah Schrag, Dana-Farber Cancer Institute and JAMA Associate Editor • Katherine Hempstead, Robert Wood Johnson Foundation • J. Leonard Lichtenfeld, American Cancer Society <p>Panel Discussion</p>
10:00 am	Break
10:15 am	<p>Session 6: Panel Discussion: Participant Recommendations for the Path Forward Moderator: Stanton Gerson, Case Comprehensive Cancer Center</p> <p>Panelists:</p> <ul style="list-style-type: none"> • Scarlett Lin Gomez, UCSF Helen Diller Family Comprehensive Cancer Center • Clifford Hudis, American Society of Clinical Oncology • Osonde Osoba, RAND • Deborah Schrag, Dana-Farber Cancer Institute and JAMA Associate Editor • John Steiner, Kaiser Permanente Social Needs Network for Evaluation and Translation • Beth Virnig, ResDAC and University of Minnesota • George Weiner, University of Iowa Holden Comprehensive Cancer Center
11:30 am	<p>Workshop Wrap Up Robert Winn, University of Illinois at Chicago</p>
11:45 am	Adjourn