# 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

## DRAFT Workshop Agenda

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

**October 28, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:30 am</td>
<td>Registration and Breakfast</td>
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| 8:00 am    | Welcome from the National Cancer Policy Forum and Board on Mathematical Sciences and Analytics  
Robert Winn, University of Illinois at Chicago  
Planning Committee Chair  
Nicholas Horton, Amherst College  
Committee on Applied and Theoretical Statistics |
| 8:15 am    | Session 1: Workshop Overview  
*Moderator: Victoria Seewaldt, City of Hope*  
The Social Determinants of Health and their Influence on Cancer Risk and Outcomes  
- John Ayanian, University of Michigan  
- Chanita Hughes-Halbert, Medical University of South Carolina  
Opportunities to Leverage Big Data and Analytic Methods to Promote the Health of Individuals and Communities  
- Paul Tang, IBM Watson Health  
- Dave Steiner, Google Health  
- Beth Virnig, ResDAC and University of Minnesota  
Advancing Health Equity and Fairness in Big Data Applications in Oncology  
- Scarlett Lin Gomez, UCSF Helen Diller Family Comprehensive Cancer Center  
Panel Discussion  
Speakers plus:  
- 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  |  Session 2: Highlighting Novel Data Sources and Methodologies  
Co-Moderators: Rebecca Miksad, Flatiron Health and Nicholas Horton, Amherst College

- **Lightning Presentations**
  - **Geospatial Mapping**
    - Marta Jankowska, University of California, San Diego
  - **Opportunities for Real World Data**
    - Blythe Adamson, Flatiron Health
  - **Observational Health Data Sciences and Informatics (OHDSI)**
    - David Madigan, Columbia University
  - **Neighborhood-level Social Determinants and Cancer Outcomes**
    - Loretta Erhunmwunsee, City of Hope
  - **Citizen Science and Digital Health Data**
    - Abby King, Stanford University
  - **Applying Environmental Data in Cancer Research**
    - Jaime Hart, Harvard T.H. Chan School of Public Health
  - **Regulatory Considerations with Novel Data Sources and Methods**
    - Sean Khozin, Food and Drug Administration Oncology Center of Excellence

Panel Discussion

12:15 pm  |  Lunch Break & Poster Session

1:15 pm   |  Session 3: Data Policy and Ethical Considerations  
Moderator: Timothy Rebbeck, Dana-Farber Cancer Institute

- **Ensuring Equity and Representativeness in Oncology Research**
  - Augusto Ochoa, Louisiana State University Stanley S. Scott Cancer Center

- **Data Security and Patient Privacy Issues with the Use of Big Data**
  - I. Glenn Cohen, Harvard Law School (presenting remotely)
  - Kristen Rosati, Coppersmith Brockelman PLC

- **Technical Algorithmic Perspective**
  - Osonde Osoba, RAND

Panel Discussion
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| 3:30 pm | Session 4: Priorities and Opportunities for Collaboration and Data Sharing to Promote Health Equity  
Moderator: Karen Basen-Engquist, MD Anderson Cancer Center |
|        | State-wide Cancer Consortia Efforts  
- Scott Ramsey, Hutchinson Institute for Cancer Outcomes Research |
|        | GRAVITY Project: Standardizing Social Determinants of Health Data in EHRs to Facilitate Interoperability  
- Caroline Fichtenberg, University of California, San Francisco and Social Interventions Research & Evaluation Network (presenting remotely) |
|        | Health Care Organizations  
- John Steiner, Kaiser Permanente Social Needs Network for Evaluation and Translation |
|        | Cancer Centers  
- Cornelia Ulrich, Huntsman Cancer Institute |
|        | Opportunities to Leverage and Link Cancer Registry Data with Other Sources  
- Lynne Penberthy, National Cancer Institute |
|        | Panel Discussion  
Speakers plus:  
- 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**

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| 8:00 am | Session 5: Identifying Research Gaps and Setting a Research Agenda  
Moderator: Robin Yabroff, American Cancer Society |
|        | Panelists:  
- 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 Bioinformatics & Information Technology  
- Cara James, Office of Minority Health, Centers for Medicare & Medicaid Services |
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| 10:15 am   | **Session 6: Panel Discussion: Participant Recommendations for the Path Forward**  
**Moderator:** Stanton Gerson, Case Comprehensive Cancer Center  
**Panelists:**  
- 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   | **Workshop Wrap Up**  
Robert Winn, University of Illinois at Chicago |
| 11:45 am   | Adjourn                                                              |