

**Cancer Prevention  
Fellowship Program**

**NCI Summer Curriculum in  
Cancer Prevention**

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**Principles and Practice of  
Cancer Prevention and Control  
Course**

**July 6 – July 31, 2015**

**Course Syllabus  
2015**

**6001 Executive Boulevard  
Rockville, MD 20852**

*U.S. Department of Health and Human Services  
National Institutes of Health  
National Cancer Institute  
Division of Cancer Prevention  
Cancer Prevention Fellowship Program*

## Principles and Practice of Cancer Prevention and Control Course

Date: July 6 – July 31, 2015

Location: 6001 Executive Boulevard  
Rooms C & D  
Rockville, MD 20852  
Security/Check-in Desk – (301) 435-1470

Course Director: Lisa B. Signorello, ScD, ScM  
Deputy Director, Cancer Prevention Fellowship Program

Course Coordinators: Aili Ellen Evert  
Lindsay Levine

Course presented by:

Cancer Prevention Fellowship Program

David E. Nelson, MD, MPH  
Director

Division of Cancer Prevention

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Program Staff:  
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**Monday, July 6**

8:30 a.m.-9:00 a.m.	Welcome	David E. Nelson, MD, MPH
9:00 a.m.-10:15 a.m.	The Science of Cancer Prevention	Barry Kramer, MD, MPH
10:15 a.m.-10:45 a.m.	<b>Break</b>	
10:45 a.m.-12:15 p.m.	Cancer Prevention from a Biologist's Perspective	Jessica Faupel-Badger, PhD, MPH
12:15 p.m.-1:30 p.m.	<b>Lunch</b>	
1:30 p.m.-3:00 p.m.	Overview of Cancer Prevention from a Behavioral Perspective	Linda Nebeling, PhD, MPH, RD
3:00 p.m.-3:45 p.m.	NCI's Role in Cancer Control	Robert Croyle, PhD
4:00 p.m.	International Participants' Orientation	Center for Global Health (CGH) Staff

**Tuesday, July 7**

8:30 a.m.-10:00 a.m.	Introduction to Epidemiology and Descriptive Statistics	Lisa B. Signorello, ScD, ScM
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Observational and Experimental Study Design	Elizabeth D. Kantor, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Analysis and Bias in Epidemiologic Studies	Ronald Eldridge, PhD, MPH
2:30 p.m.-3:00p.m.	Small Group Session Intro	Lisa B. Signorello, ScD, ScM

**Wednesday, July 8**

8:30 a.m.-10:00 a.m.	Questionnaire Design in Cancer Control and Prevention	Gordon Willis, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Interpreting Scientific Evidence for Cancer Prevention	Douglas Weed, MD, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Pathogens and Cancer, including HIV and AIDS	Charles Rabkin, MD

**Thursday, July 9**

8:30 a.m.-10:00 a.m.	Liver Cancer	Christopher Loffredo, PhD, MS
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Cervical Cancer	Phil Castle, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Gastric Cancer	Gwen Murphy, PhD, MPH

**Friday, July 10**

8:30 a.m.-10:00 a.m.	Role of NCI in Global Cancer Prevention	Tom Gross, MD, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	International Cancer Resource Networks	Tom Gross, MD, PhD
12:00 p.m.-1:00 p.m.	<b>Group Photo and Lunch</b>	

### International Day Presentations

**Europe/Eurasia**

1:00 p.m.-1:10 p.m.	Northern Ireland
1:10 p.m.-1:20 p.m.	Republic of Ireland
1:20 p.m.-1:30 p.m.	Italy
1:30 p.m.-1:40 p.m.	Turkey

**Asia**

1:40 p.m.-1:50 p.m.	China
1:50 p.m.-2:00 p.m.	India
2:00 p.m.-2:10 p.m.	Indonesia
2:10 p.m.-2:20 p.m.	Japan
2:20 p.m.-2:30 p.m.	Malaysia

2:30 p.m.-2:45 p.m.      **Break**

**Asia (cont.)**

2:45 p.m.-2:55 p.m.	Myanmar
2:55 p.m.-3:05 p.m.	Philippines
3:05 p.m.-3:15 p.m.	Sri Lanka
3:15 p.m.-3:25 p.m.	Uzbekistan
3:25 p.m.-3:35 p.m.	Vietnam

**Sub-Saharan Africa**

3:35 p.m.-3:45 p.m.	Nigeria
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**Middle East**

3:45 p.m.-3:55 p.m.	Iran
3:55 p.m.-4:05 p.m.	Lebanon
4:05 p.m.-4:15 p.m.	Saudi Arabia

**South America**

4:15 p.m.-4:25 p.m.	Peru
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**Monday, July 13**

8:30 a.m.-10:00 a.m.	Nutritional Epidemiology of Cancer	Demetrius Albanes, MD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Dietary Patterns	Jill Reedy, PhD, MPH, RD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Nutrigenomics and Cancer Prevention	Sharon Ross, PhD

**Tuesday, July 14**

8:30 a.m.-10:00 a.m.	Physical Activity in the Prevention and Control of Cancer	Charles Matthews, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Translating Evidence into Diet and Physical Activity Guidelines	Sue Krebs-Smith, PhD Rick Troiano, PhD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Obesity Policy Research	Robin McKinnon, PhD, MPA
2:30 p.m.-3:30 p.m.	Navigating the Grants Process	Damali Martin, PhD

**Wednesday, July 15**

8:30 a.m. – 10:00 a.m.	Small Group Discussion (Primary Prevention of Cancer)	
10:00 a.m. – 10:30 a.m.	<b>Break</b>	
10:30 a.m. – 12:00 p.m.	Head and Neck Cancer	Aimée Kreimer, PhD
12:00 p.m. – 1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Radiation and Cancer	Alina Brenner, MD, PhD, MPH

**Thursday, July 16**

8:30 a.m.-10:00 a.m.	Colon Cancer	Adeyinka Laiyemo, MD, MPH
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Prostate Cancer	Howard Parnes, MD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Breast Cancer	Barbara Dunn, MD, PhD

**Friday, July 17**

8:30 a.m. – 10:00 a.m.	Health Education/Health Promotion and Their Role in Community-based Cancer Control and Prevention	Brian Rivers, PhD, MPH
10:00 a.m. – 10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Community-Based Participatory Research	Erin Kobetz, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	

1:00 p.m.-4:00 p.m.	<b>Optional Social Activity:</b> Smithsonian American Art Museum 8th and F Streets, NW, Washington, DC 20004
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**Monday, July 20**

8:30 a.m.-10:00 a.m.	Tobacco Prevention and Cessation	Erik Augustson, PhD, MPH
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Global Tobacco Control	Michele Bloch, MD, PhD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Team Science	Kara Hall, PhD
2:30 p.m.-4:00 p.m.	Cancer Drug and Clinical Trials Development in Low- and Middle-Income Countries	Jack Welch, MD, PhD

**Tuesday, July 21**

8:30 a.m.-10:00 a.m.	Lung and Upper Aerodigestive Cancers	Eva Szabo, MD
10:00 a.m.-10:30 a.m.	<b>Break</b>	

10:30 a.m.-12:00 p.m.	Occupation and Cancer	Aaron Blair, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Cancer Risk Modeling	Mitchell Gail, MD, PhD
2:30 p.m.-4:00 p.m.	Physical Activity Assessment	Heather Bowles, PhD

**Wednesday, July 22**

8:30 a.m.-10:00 a.m.	Interpreting Screening Data	Jennifer Rider, ScD, MPH
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Cancer Screening Trials	Paul Pinsky, PhD, MPH
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Small Group Discussion (Cancer Screening)	
2:30 p.m.-4:00 p.m.	The Art and Science of Presentations: How to Effectively Communicate with Health Decision Makers and Influencers	Kellie Mullen, PhD

**Thursday, July 23** – Please note all lectures this day are held in Masur Auditorium, Building 10 on the NIH main campus.

8:30 a.m.-10:00 a.m.	Cancer Survivorship: The Emerging Challenge For Cancer Prevention and Control Science	Julia Rowland, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Decision Making in the Clinical Cancer Prevention Field	Christine Holmberg, PhD, MPH
12:00 p.m.-2:00 p.m.	<b>Lunch and optional tour of the NIH Clinic Center</b>	

**Special Lecture: Annual Advances in Cancer Prevention***Masur Auditorium, Building 10*

3:00 p.m.- 4:00 p.m.	HPV Vaccination: Preventing More with Less	Douglas R. Lowy, MD
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**Friday, July 24**

8:30 a.m.-10:00 a.m.	Social Determinants of Health in Cancer Control	Shobha Srinivasan, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	

10:30 a.m.-12:00 p.m.	A Missing Piece of the Puzzle in Cancer Control: Literacy and Health Literacy	Connie Lea Arnold, PhD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-3:30 p.m.	Health Services Research in Cancer Control	Robin Yabroff, PhD, MBA Carrie Klabunde, PhD, MHS, MBA

**Monday, July 27**

8:30 a.m.-10:00 a.m.	Clinical Cancer Prevention	Ernest Hawk, MD, MPH
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Aspirin, NSAIDs, and Cancer Prevention	Asad Umar, DVM, PhD
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Metformin and Other Commonly Used Drugs As Potential Chemopreventive Agents	Brandy Heckman-Stoddard, PhD, MPH
2:30 p.m.-4:00 p.m.	The Health Disparities Calculator (HD*Calc): Measuring Health Disparities Across and Beyond the Cancer Control Continuum	Erin Kent, PhD, MS

**Tuesday, July 28**

8:30 a.m.-10:00 a.m.	Dissemination and Implementation Research in Health	Gila Neta, PhD, MPP
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Thyroid Cancer	Cari Kitahara, PhD, MHS
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	The Challenge of Cancer Avoidance and Successful Aging in a U-Shaped World	David Waters, DVM, PhD

**Wednesday, July 29**

8:30 a.m.-10:00 a.m.	Melanoma	Alan Geller, MPH, RN
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Small Group Discussions (Cancer Survivorship)	
12:00 p.m.-1:00 p.m.	<b>Lunch</b>	

1:00 p.m.-2:30 p.m.	Cancer Surveillance	Kathleen Cronin, PhD, MPH
2:30 p.m.-4:00 p.m.	Palliative Care/Pain Control	Joe Harford, PhD

**Thursday, July 30**

8:30 a.m.-10:00 a.m.	Harnessing the Power of an Intelligent Health Environment in Cancer Control and Prevention	Bradford Hesse, PhD
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Indoor Air Pollution and Risk of Lung Cancer Among Never-Smokers	Qing Lan, MD, PhD
12:00 p.m. -1:00 p.m.	<b>Lunch</b>	
1:00 p.m.-2:30 p.m.	Alcohol and Cancer: The Often Forgotten Cancer Risk Factor	David E. Nelson, MD, MPH

**Friday, July 31**

8:30 a.m.-10:00 a.m.	Cancer Screening	Otis Brawley, MD, FACP
10:00 a.m.-10:30 a.m.	<b>Break</b>	
10:30 a.m.-12:00 p.m.	Cancer Prevention in the 21st Century: The Cancer Preventorium Idea	Elmer Huerta, MD, MPH
12:00 p.m. -12:15 p.m.	Closing Remarks	David E. Nelson, MD, MPH