Division of Cancer Prevention: Population Science, Epidemiology, & Disparities Research

Report to the NCAB Subcommittee

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NIH NATIONAL CANCER INSTITUTE

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Population/Community-Based Research and Health Disparities

NCI Community Oncology Research Program (NCORP)

- Health disparities research through 12 minority/underserved community sites and 34 community sites
  - 52% of MB-NCORP accruals; 20% of NCORP accruals overall
- Cancer Care Delivery Research in collaboration with DCCPS
- Access to cancer therapy trials in the local community
- **Planned**: New onset diabetes (NOD) cohort for diagnosis of pancreatic cancer
  - 10,000 newly diagnosed patients
  - Blood samples over 3 years to establish probability of pancreatic cancer development
  - Biobank of annotated specimens: Use samples for validation of emerging early detection tests
Primary Prevention Research: Large Trials and Cohorts

Aspirin in Reducing Events in the Elderly (ASPREE) with the National Institute on Aging (NIA)

- Age 70+ (65+ for African-Americans)
- Examining whether the potential benefits of low-dose aspirin (i.e., preventing heart disease, stroke, cancers, and dementia) outweigh the risks (particularly bleeding).

Diabetes Prevention Program Outcome Study (DDPOS) with the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

- A population at risk of diabetes
- Examining if metformin or lifestyle intervention used to prevent development of diabetes can also modify cancer incidence.
- Obesity-related cancers (breast, colon & rectum, endometrium, pancreas, esophagus, gall bladder, and kidney).
Screening Trials

Tomosynthesis Mammographic Imaging Screening Trial (TMIST)

- Plan to begin patient recruitment summer 2017
- 165,000 women ages 45-74
- Randomized to 2D digital mammography ± 3D tomosynthesis mammography for 4 years
- Primary endpoint: reduction in advanced cancers
  - Will address overdiagnosis clinically

Screening at Clinical and Molecular Levels

- Consortium on Molecular and Cellular Characterization of Screen-Detected Lesions (MCL)
Biorepositories and Post-Trial Analyses

- National Lung Screening Trial and Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trials
  - Ongoing post-trial follow-up analyses

- Cancer Data Access System website
  - NLST, PLCO, IDATA: Data and specimens available for investigator use (not funding)

- PAR 15-297 for utilizing the PLCO biospecimens
  - Resource to bridge gaps in cancer etiology and early detection research PLCO data
Epidemiology and Biometry

- Development of new research methods and behavioral intervention programs
- Measurement error in lifestyle studies (diet & exercise)
- Interactive Diet and Activity Tracking in AARP (IDATA) Study
  - Methodologic study of device-based, internet-based, and conventional self-report instruments for assessing physical activity and diet in epidemiologic research
  - Data collected in 2013 are available to all qualified investigators for studies of physical activity and nutrition
  - Interested investigators can request access to IDATA Study data via the NCI Cancer Data Access System
Training the Next Generation of Cancer Prevention Scientists

- **NCI Cancer Prevention Fellowship Program**
  - Celebrated its 30th anniversary in 2017
  - Multidisciplinary training for post-doctoral fellows in basic, quantitative, social and behavioral sciences, clinical cancer prevention
  - 40 current fellows work in several NCI divisions and at the Food and Drug Administration
  - Two summer courses:
    - Principles and Practice of Cancer Prevention Control Course
    - Molecular Prevention Course