



The FCDS/NCHS Data Linkage Project

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Outline

- The National Center for Health Statistics (NCHS) Health Surveys
- Description of the Proposed Pilot Linkage
- GO-Grant submission
- The Future

National Center for Health Statistics (NCHS)



- Responsible for conducting health surveys representative of the US population
 - Data are used to monitor health status and health trends of the (civilian) US population
- Branch of the Centers for Disease Control and Prevention (CDC)
 - NCHS modest operational budget \$116 million/yr

NCHS Surveys:
National Health Interview Survey (NHIS)

- Annual Household Survey conducted since 1957
- Collects information on a broad range of health topics, health risk & health protective behaviors, and health care utilization & access
- Each year information collected on ~ 90,000 household members



NCHS Surveys:
The National Health and Nutrition Examination Survey (NHANES)

- Annual survey includes a household interview, physical examination & nutritional assessment
- Biological information (i.e., blood and urine) collected into addition to examination data
- Each year information collected on ~ 5,000 household members



Both NCHS Surveys Linked to the National Death Index



- Allows researchers to identify factors related to an increased or decreased risk of mortality







TABLE 1
Age- and Smoking-Adjusted Lung Cancer Mortality Risk in Selected Worker Groups: The 1987, 1988, and 1990-1994 National Health Interview Supplement Surveys

Ranking ¹	Sample Size	Estimated US Workforce ²	Concordance With Longest Held Job ³	Occupation	No. of Lung Cancer Deaths	Occupational Hazard Ratio ⁴	95% Confidence Interval
All workers							
1	3159	2,245,512	48.4	Financial records processing occupations	31	1.76	1.25-2.50
2	169	176,360	54.1	Other transportation, except motor vehicles	2	1.70	0.40-7.27
3	3854	3,410,507	31.3	Freight, stock, material handlers	33	1.53	1.09-2.14
4	194	199,857	47.2	Forestry and fishing occupations	3	1.44	0.50-4.14
5	965	793,111	35.2	Other protective service occupations	20	1.41	0.84-2.37
6	4420	3,766,588	46.0	Precision production occupations	43	1.39	1.01-1.81


(JOEM 2008; 48, 823-832)

NCHS Surveys & Cancer Registries



- 2007 FCDS Christmas potluck sugar-induced “high” leads to the generation of a “brilliant” idea:
 - Same data collected for NDI linkage could be used to perform registry linkages!!!

Why is this “COOL”????



Can Study Two Distinct Nationally Representative Groups:

1. Cancer Dx ➡ NHIS/NHANES Participant
 - i.e., Cancer Survivor Study
2. Participant ➡ Cancer Dx
 - i.e., Cancer Incidence Study

Why is this “COOL”????



Combined Information Enhances the Value of the Registry and NCHS data:

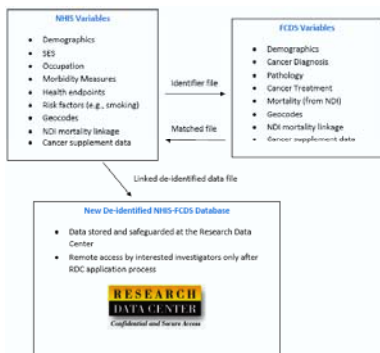
- Risk factors (smoking, occupation, etc)
- Cancer Dx/Rx & Cancer screening behaviors
- Other illnesses, insurance, demographics
- Medical examination, genetic information

Be Careful What You Wish For

- Planning with colleagues at the NCHS began in earnest in early 2008 but challenges only grew:
 - Need for interagency agreements between registries and NCHS
 - Data access issues
 - IRB issues
 - \$\$ for pilot



The “Proof of Concept” Plan



A Stimulating Opportunity

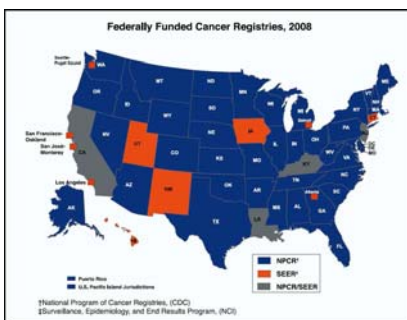
- NCI issues a call for Grand Opportunity (GO) grants in Spring 2009
 - Plan to support 3-5 large projects with budgets of \$2-4 million over a 24-month period
 - 2.5 weeks to put together!!!

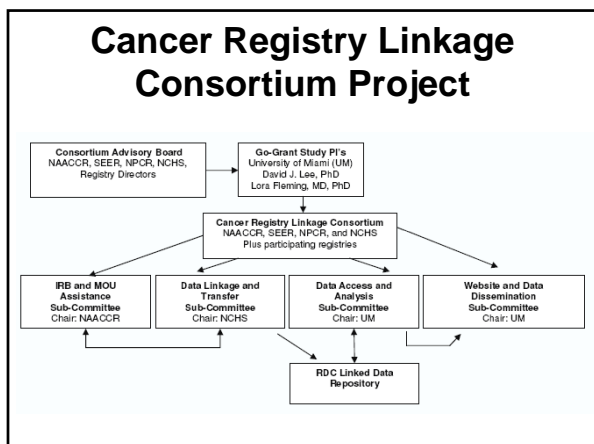


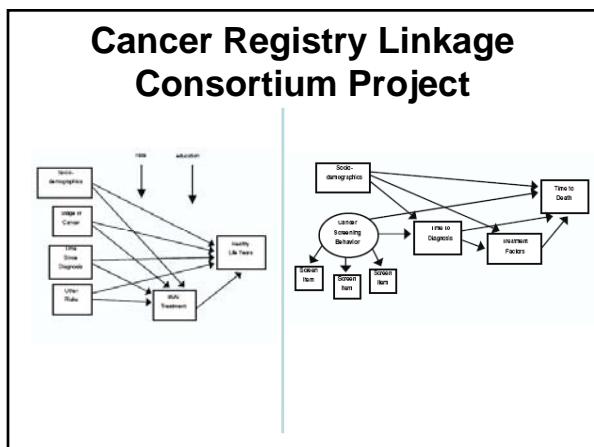
A Stimulating Opportunity

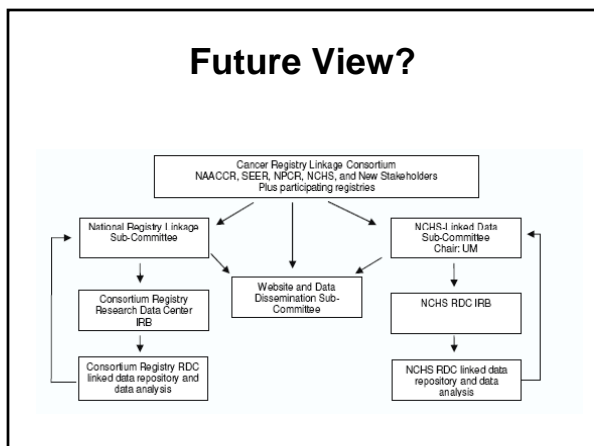
- Go-Grant Program supports large-scale research projects that accelerate critical breakthroughs, early and applied research on cutting-edge technologies, and new approaches to improve the synergy and interactions among multi and inter-disciplinary research teams.

Cancer Registry Linkage Consortium Project









Plans B and C

- Pilot linkage IRB is in place
- Partial funding secured to begin Florida pilot NHIS-FCDS linkage
- Bankhead-Coley Cancer Research Program Competition for Cancer Grants
 - Special Call for Applications for Florida RC1 Grants
 - Eligible?

Questions?

The Real Reason Dinosaurs Became Extinct!

