

**CENTER FOR POPULATION
HEALTH AND HEALTH
DISPARITIES**

**TO ASSESS SOCIAL, BIOLOGICAL
AND ENVIRONMENTAL ELEMENTS
THAT CONTRIBUTE TO DISPARITIES
IN CANCER OUTCOMES RELATED
TO RACE AND ETHNICITY**

CENTER FOR THE STUDY OF HEALTH DISPARITIES

- **NEED TO DETERMINE BEST WAYS TO ADDRESS DISPARITIES**
- **NEED TO DEFINE “BEST PRACTICES” AND THEN IDENTIFY HOW BEST TO INTRODUCE THEM INTO COMMUNITIES WHERE THE DISPARITIES EXIST**
- **NEED TO UNDERSTAND HOW RESOURCES THAT ARE AVAILABLE ARE CURRENTLY USED.**
- **NEED TO SUSTAIN WHAT IS SHOWN TO BE EFFECTIVE.**

BERKMAN AND GLASS MODEL (MODIFIED)

UPSTREAM

DOWNSTREAM

**CONTEXTUAL VARIABLES
(NEIGHBORHOOD)**

**MICROENVIRONMENT
(SOCIAL NETWORKS)**

**INDIVIDUAL EFFECTS RELATED
TO DELAY
(BELIEFS, CULTURE)**

**SYSTEM EFFECTS
(MEDIATORS OF ETHNIC
DISPARITY ON
BREAST CANCER PROGNOSIS)**

THE IMMEDIATE PROBLEM

- **WELL-KNOWN DISPARITIES IN SURVIVAL RATES FROM BREAST CANCER BY RACE, ETHNICITY AND SOCIOECONOMIC STATUS.**
- **MAMMOGRAPHY RATES ARE EQUAL AMONG AFRICAN AMERICAN, HISPANIC AND WHITE WOMEN**

COMMUNITY PARTNERS

- **HEALTHCARE CONSORTIUM OF ILLINOIS (HEALTHY SOUTH CHICAGO AND THE GREATER ROSELAND DISTRICT HEALTH COUNCIL)**
- **CHICAGO BREAST HEALTH TASK FORCE—
CHICAGO DEPARTMENT OF PUBLIC HEALTH**
- **ILLINOIS STATE CANCER REGISTRY--
ILLINOIS DEPARTMENT OF PUBLIC HEALTH**

AIMS OF PROJECT 1

- **EXAMINE THE EFFECTS OF THE PATIENTS' SOCIAL ENVIRONMENT ON ACCESS TO EARLY DETECTION AND DIAGNOSIS.**
 - **EXAMINE WHETHER AFTER TAKING INTO ACCOUNT INDIVIDUAL CHARACTERISTICS THE SOCIAL ENVIRONMENT HAS ANY ADDITIONAL EFFECT**
- **EFFECT OF AGE**
- **PLAN INTERVENTION WITH COMMUNITY PARTNERS**

AIMS OF PROJECT 2

- **EXAMINE THE SOURCES OF SUPPORT PATIENTS RECEIVE**
 - **ASSESS THE KINDS OF SOCIAL NETWORKS WITH WHICH THE PATIENT INTERACTS.**
 - **ASSESS THE EFFECTS OF THE PATIENTS' SOCIAL NETWORKS ON**
 - **PATTERNS OF SERVICE USE**
 - **ON BELIEFS AND ATTITUDES ABOUT THE VALUE OF USING SERVICES**
 - **ASSESS THE EFFECTS OF NETWORKS ON PATIENTS' SCREENING BEHAVIOR AND RESPONSE TO SYMPTOMS**
 - **EXAMINE EFFECT OF NEIGHBORHOOD ON NETWORK STRUCTURE**

AIMS OF PROJECT 3

- **IDENTIFY AFFECTS OF PATIENTS' BELIEFS AND ATTITUDES ABOUT THE HEALTH CARE DELIVERY SYSTEM ON OBTAINING DIAGNOSIS.**
- **EXAMINE EFFECTS OF NETWORK INPUT ON THESE ATTITUDES AND BELIEFS.**
- **ASSESS MEASURES FOR VALIDITY**
- **WORK WITH COMMUNITY PARTNERS ON INTERVENTION TO IMPROVE WILLINGNESS TO OBTAIN DIAGNOSIS**

AIMS OF PROJECT 4

- **ASSESS THE EFFECT OF THREE “INTERVENTING VARIABLES HYPOTHESIZED TO AFFECT SURVIVAL:**
 - **PATHWAY TO DETECTION (WAY IN WHICH CANCER WAS DISCOVERED),**
 - **TIMING OF DIAGNOSIS (INTERVAL BETWEEN DISCOVERY AND DIAGNOSIS), AND**
 - **TIMING OF TREATMENT (INTERVAL BETWEEN DIAGNOSIS AND TREATMENT)**

AIMS OF PROJECT 4

(Continued)

- **EXPLORE RELATION OF ETHNICITY TO PROGNOSTIC FACTORS.**
- **EXAMINE THE RELATIONSHIP BETWEEN INTERVENING VARIABLE AND PROGNOSTIC FACTORS.**
- **EXAMINE ETHNIC EFFECTS ON INTERVEINING VARIABLES**
- **ASSESS THE EFFECTS OF VARIABLES CONSIDERED IN PROJECTS 1-3 ON TREATMENT**

DATA SOURCES-1

- **INTERVIEWS WITH 1,200 CANCER PATIENTS, DIAGNOSED BETWEEN 2003 AND 2006 AND CHART DATA ON DIAGNOSIS AND TREATMENT.**
- **INTERVIEWS WITH 450 WOMEN WAITING FOR DIAGNOSTIC MAMMOGRAMS**
- **INTERVIEWS WITH 6,000 NETWORK MEMBERS**

DATA SOURCES-2

- **CENSUS DATA—1990-2000**
- **INTERVIEW DATA FROM PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS**
- **DATA FROM ILLINOIS STATE CANCER REGISTRY FOR 1996-2000—AVERAGE BREAST CANCER MORTALITY FOR 343 NEIGHBORHOOD AREAS**
- **MAMMOGRAPHY ACCESS DATA**
- **RTA DATA ON TRANSPORTATION TO MAMMOGRAPHY SITES.**