Islands in the Stream:
Utilizing near-time data streams to deliver and evaluate a lifestyle intervention for breast cancer survivors

Introduction:
The Cancer and Lifestyle Medicine Project includes the Public Health Institute’s, Cancer Registry of Greater California (CRGC), Kaiser Permanente Lifestyle Medicine Department (KPLMD), and the California Cancer Registry (CCR). This collaboration for Breast Cancer Survivors has partnered for a 2-year clinical trial for breast cancer survivors in Kaiser Permanente South Sacramento service area. Building on the 2017-2018 clinical trial that showed significant improvements in targeted diabetic and cardiac patients, CCR and KPLMD will utilize real-time qualitative and quantitative data to design, develop, and deliver effective lifestyle intervention that improves quality of care and long-term outcomes of breast cancer survivors.

Aims: The project will undertake systematic investigation of the following questions:
• Do patient reported outcome measures help with cancer recurrence monitoring and patient care?
• Does technology (such as tablets and handheld devices) help in preparing medical health records?
• Are cancer patients and survivors likely to experience a benefit from patient reported outcome measures?

Methods: Through its collaboration, the team will pair the methods of the behavioral intervention clinical trial with data resources of the Greater California Cancer Registry, and a comprehensive literature review to:
• Review successful practices and identification of standard setting interventions;
• Align collaboration with California Cancer Registry (CCR) goals to demonstrate effective utilization of near and real time qualitative and quantitative data to impact cancer survivor’s quality of care, health and outcomes;
• Align CRGC resources to enhance the Kaiser Permanente Division of Research clinical trial activities and services to breast cancer survivors in Kaiser Permanente South Sacramento area.

Planned Analyses:
• The CRGC will provide cancer registry data of concurrent breast cancer cases, matched on demographics as a control population for evaluation of the Kaiser Clinical Trial with the Kaiser Department of Research.
• The CRGC will provide cancer registry data to Kaiser on the cases involved in the intervention with the purpose of ensuring completeness of case data among patients who have received relevant prior care outside of the Kaiser system; California’s recent shift toward mandated electronic pathology reporting will result in near time cancer reporting, enabling the availability of these data.
• Kaiser will include a modest number of question prompts in the survey materials that participants complete that respond to quality of life, sustained behavior change, and residential histories, and will convey response data to CRGC. These topics are priorities of interest within both the California statewide cancer surveillance program, and the federal Surveillance Epidemiology and End Results Program in which the CRGC participates. Data from the cohort of participants will be paired to traditional cancer case data.
• The evaluation of the program will provide information about the number and nature of interactions and interventions, patient adherence to intervention protocol, and will demonstrate the capacity of patients for post-treatment, real time, cancer research on quality of life, outcomes, and survivorship (in contrast to more time-consuming survey research previously conducted using cancer registry data resources).

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