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Background

- Little is known about cancer survivors' beliefs about the environmental, non-hereditary factors associated with developing cancer and how those beliefs impact lifestyle choices and behaviors.
- In April 2007, leaders representing cancer education, advocacy & research convened at Commonweal, a nonprofit health and environmental research institute, to support education, research and public policy associated with cancer prevention.
- As an outgrowth of this meeting, Cancer Support Community (CSC), previously known as The Wellness Community (TWC), launched a survey in collaboration with the University of Massachusetts-Lowell, Commonweal, and the Collaborative on Health & the Environment to understand cancer survivors' beliefs about the environmental causes of cancer.



In 2012, CSC launched *The Cancer Survivor* Registry: the Breast Cancer M.A.P. (Mind Affects the *Physical*) *Project*, an online registry examining the psychosocial impact of breast cancer among survivors, with three main goals in mind:

- 1. To better *understand* and *meet* the ongoing social and emotional needs of breast cancer survivors
- 2. To develop and disseminate effective programs resulting in improved long-term quality of life
- 3. To provide a vehicle for these survivor voices to be heard and positively impact health care policy through advocacy

To date, over 3,400 breast cancer survivors have joined the Breast Cancer M.A.P. Project.

To download the Annual Index, please visit: www.cancersupportcommunity.org/BreastCancerMAP To join the Cancer Survivor Registry, please visit: https://csc.breastcancerregistry.org/

Breast Cancer Survivors' Beliefs about Environmental Risk Factors: Results from a National Cancer Survivor Registry

²Commonweal, Bolinas, CA

Purpose

- To explore breast cancer survivors' beliefs about environmental causes of cancer
- To understand and describe breast cancer survivors' prevention behaviors related to environmental risk
- To ascertain survivors' interest in learning more about environmental contributors to cancer

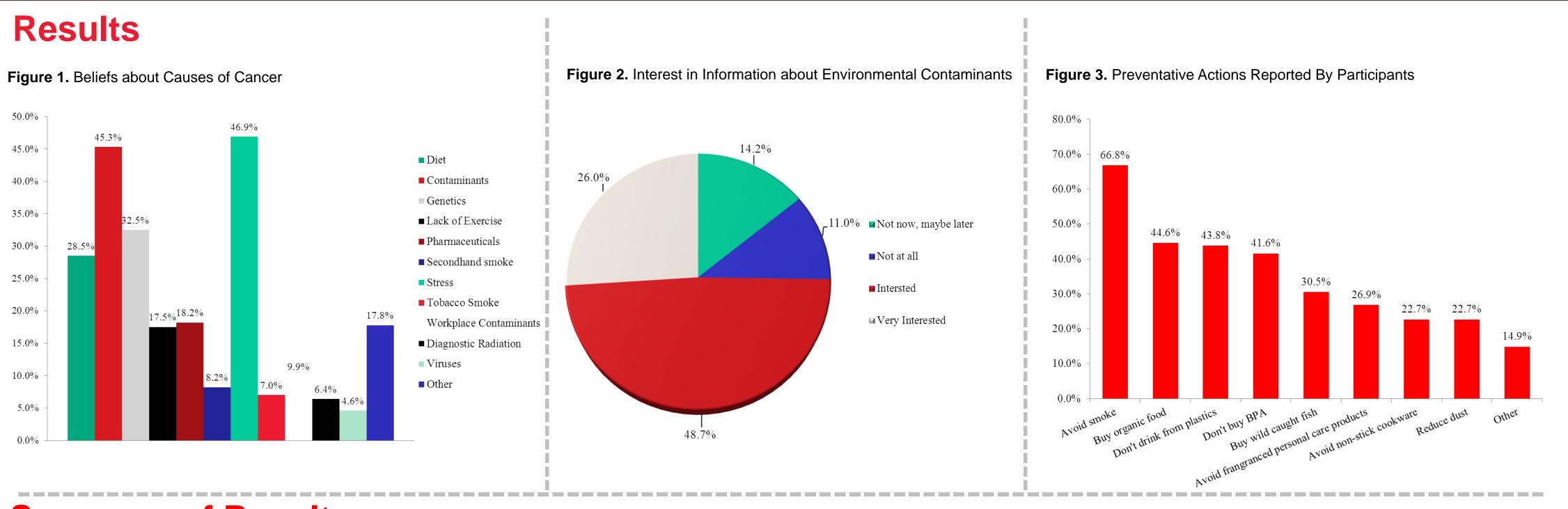
Methods

- Building on the previous survey conducted in 2007 in collaboration with TWC, Commonweal, U of MA, and the Collaborative on Health & the Environment, CSC generated a series of questions focusing on breast cancer and the environment.
- In Fall 2010, a subset of *M.A.P. Project* registrants (N= 825) responded to questions about:
- factors they believe contributed to their cancer
- self-reported behaviors related to their beliefs around environmental contributors to cancer
- interest in learning about environmental contributors to cancer
- Questions and response options derived from:
 - . The 2007 Commonweal Survey
 - 2. Commonly known toxins as reported in *"Toxic*" America" by Sanjay Gupta, MD in 2010
- 3. Free response options provided to ascertain additional perceptions of survivors

Sample Characteristics (N=825)

Characteristic	Proportion
Race Caucasian African-American Asian	- 88.3% 5.9% 1.2%
Sex Female	99.4%
Education Bachelors degree and above	72%
Total annual income Less than 40k Over 100k	18% 38%
Breast Cancer Recurrence	13%
	Mean
Age	55 (SD=9.5)
Years since diagnosis	5.7 (SD= 5.4)





Summary of Results

• Top 3 reasons reported for engaging in perceived preventative behaviors:

- Prevent Recurrence (81.9%)
- 2. Prevent Cancer in Society (79.5%)
- 3. Prevent Cancer Among my Family (76.2%)

Registrants reported a variety of factors that they believe contributed to their cancer. 45.3% of breast cancer survivors believe that their cancer was caused by environmental contaminants while 42.9% report that they are unsure whether they got cancer because of environmental contaminants Most registrants (73.9%) expressed interest in learning how environmental contaminants can affect cancer More than half (54.9%) expressed interest in participating in educational workshops concerning prevention policies and environmental contaminants.

Breast cancer survivors endorse taking preventive action against known environmental toxins. - Over half report buying organic foods, refraining from drinking from plastics or buying BPA plastics, and 80% avoid smoke.

Conclusion

These data indicate that the majority of breast cancer survivors:

- believe environmental factors are important in cancer development and recurrence
- have taken action based on these beliefs
- would like more information about potential environmental contaminants

While there is little information available about the environmental causes of cancer, some individuals are motivated to make lifestyle changes based on their beliefs.

These results support the need for the development of evidence-based information and educational materials and programs for survivors around cancer and the environment.

Future Directions

- communities

- prevention

More research on the beliefs and knowledge of cancer survivors' understanding of the environmental causes of cancer with a greater focus on understudied, diverse

Support additional public policy discussion about cancer and the environment

The development of cancer advocate training, and evidence-based educational materials and programs for cancer survivors

Research that focuses on physician attitudes and understanding of the environmental causes of cancer and what they communicate to their patients about



National Philanthropic