Evaluating preliminary outcomes among primary care and oncology providers who participated in the Cancer Survivorship E-Learning Series for Primary Care Providers

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Disclosure Information
Relationships with Companies

Harvey, Allison

No relationships to disclose
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Learning Objectives

After this presentation, the participant should be able to:

• Recognize the need for health care provider continuing education focused on post-treatment cancer survivorship care.

• Explain the preliminary outcomes among primary care and oncology providers who participated in the Cancer Survivorship E-Learning Series.
About the GW Cancer Center

“Driving innovative research, personalized patient care and cancer policy”

About the Institute for Patient-Centered Initiatives & Health Equity
• **Vision**: A cancer-free world and health care that is patient-centered, accessible and equitable

• **Mission**: To foster healthy communities, prepared patients, responsive health care professionals and supportive health care systems through applied cancer research, education, advocacy and translation of evidence to practice
Background

- It is estimated there are currently 15.5 million cancer survivors living in the U.S., continuing to increase (Siegel, Miller & Jemal, 2016).

- Post-treatment cancer survivors are at increased risk for a variety of issues due to cancer and its treatment including long-term and late effects (Andersen et al., 2014; Skolarus et al., 2014; El-Shami et al., 2015; Runowicz et al., 2015; Cohen et al., 2016).

- In recent years, there has been an increased focused on ensuring coordinated care for survivors to address these and other issues (Seeff, 2010; American College of Surgeons, 2011).
The Cancer Survivorship E-Learning Series

bit.ly/PCPE-Learning
E-Learning Series: Module Topics

Module 1 (Launched April 2013)
- The Current State of Survivorship Care and the Role of Primary Care Providers

Module 2 (Launched April 2013)
- Late Effects of Cancer and its Treatments: Managing Comorbidities and Coordinating with Specialty Providers

Module 3 (Launched April 2013)
- Late Effects of Cancer and its Treatment: Meeting the Psychosocial Health Care Needs of Survivors
E-Learning Series: Module Topics

Module 4 (Launched December 2013)
- The Importance of Prevention in Cancer Survivorship: Empowering Survivors to Live Well

Module 5 (Launched December 2013)
- A Team Approach: Survivorship Care Coordination

Module 6 (Launched April 2014)
- Cancer Recovery and Rehabilitation
E-Learning Series: Module Topics

Module 7 (Launched July 2014)
- Spotlight on Prostate Cancer Survivorship

Module 8 (Launched September 2015)
- Spotlight on Colorectal Cancer Survivorship

Module 9 (December 2015)
- Spotlight on Breast Cancer Survivorship

Module 10 (Launched March 2016)
- Spotlight on Head and Neck Cancer Survivorship
# Methods: Sample

N=730

<table>
<thead>
<tr>
<th>Module</th>
<th>Oncology (n=593)</th>
<th>Primary Care (n=137)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Role of Primary Care Providers in Survivorship Care</td>
<td>451</td>
<td>114</td>
</tr>
<tr>
<td>2: Comorbidities and Shared Care</td>
<td>338</td>
<td>87</td>
</tr>
<tr>
<td>3: Psychosocial</td>
<td>310</td>
<td>67</td>
</tr>
<tr>
<td>4: Prevention</td>
<td>218</td>
<td>45</td>
</tr>
<tr>
<td>5: Care Coordination</td>
<td>218</td>
<td>31</td>
</tr>
<tr>
<td>6: Rehabilitation</td>
<td>180</td>
<td>27</td>
</tr>
<tr>
<td>7: Prostate Cancer</td>
<td>144</td>
<td>19</td>
</tr>
<tr>
<td>8: Colorectal Cancer</td>
<td>90</td>
<td>8</td>
</tr>
<tr>
<td>9: Breast Cancer</td>
<td>96</td>
<td>8</td>
</tr>
<tr>
<td>10: Head and Neck Cancer</td>
<td>63</td>
<td>6</td>
</tr>
</tbody>
</table>
Methods: Data Analysis

• E-Learning Series data (2013-2015) were exported from Survey Monkey for each module, manually matching pre and post data, and converted in Microsoft Excel. E-Learning Series data (2016) were exported from the Learning Management System for each module, and converted using STATA®/IC 14.2.

• Statistical analysis was then conducted with STATA®/IC 14.2. Frequencies and descriptive statistics were run on demographics.
Methods: Data Analysis

- Tests for significance were conducted at 95% confidence for each bivariate analysis ($\alpha=0.05$).
  - Pre-test and post-test responses within each group (self-assessment) were conducted with paired samples t-tests and Wilcoxon Signed Rank tests. Due to low primary care provider sample size, tests for significance could only be conducted on Modules 1-7.
  - Tests of significance for comparisons between primary care providers and oncologists were conducted on Modules 1-7 with independent samples t-tests and Mann Whitney U tests.
## Learner Demographics

<table>
<thead>
<tr>
<th></th>
<th>Oncology</th>
<th>Primary Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>95.4%</td>
<td>81.0%</td>
</tr>
<tr>
<td>40-59 Years Old</td>
<td>58.7%</td>
<td>52.5%</td>
</tr>
<tr>
<td>White</td>
<td>83.9%</td>
<td>76.9%</td>
</tr>
<tr>
<td>Not Hispanic or Latino</td>
<td>88.7%</td>
<td>84.6%</td>
</tr>
<tr>
<td>Serve Primarily Rural Community</td>
<td>13.6%</td>
<td>14.2%</td>
</tr>
<tr>
<td>Physician</td>
<td>0.6%</td>
<td>35.7%</td>
</tr>
<tr>
<td>Nurse</td>
<td>67.7%</td>
<td>19.7%</td>
</tr>
<tr>
<td>Nurse practitioner</td>
<td>11.3%</td>
<td>24.8%</td>
</tr>
<tr>
<td>Previously participated in other training (yes)</td>
<td>44.1%</td>
<td>22.6%</td>
</tr>
</tbody>
</table>
Comparing Change Scores of Primary Care and Oncology Providers

Presented by: Allison Harvey, MPH, CHES
Conclusions

• Positive learning gains seen among both primary care and oncology providers.

• For most learning objectives, primary care and oncology providers had statistically equivalent gains from pre to post.

• Results indicate the E-Learning Series is effective in improving providers’ self-efficacy around meeting the needs of survivors and engaging in recommended care practices.

• There is a need for continued dissemination among providers, particularly those in primary care.
Example of Additional Dissemination Efforts: Cancer Survivorship Care Guidelines

www.cancer.org/professionals
Example of Additional Dissemination Efforts: Cancer Survivorship Care Guidelines Toolkit

Thank You!

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References


