Patient Perspectives on Post-treatment Surveillance

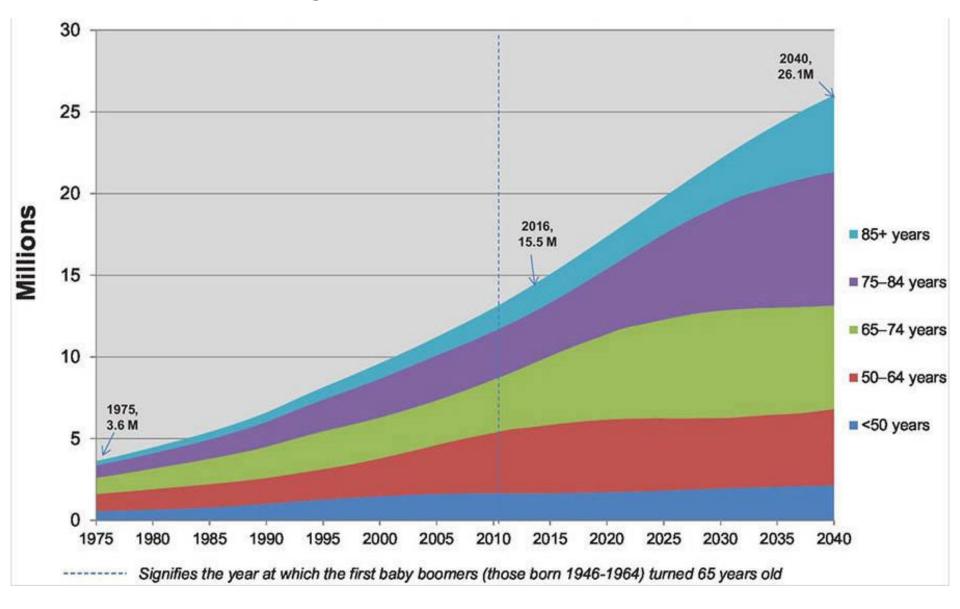
Overview of Follow-up Care for Cancer Survivors

Paul Jacobsen, PhD

Healthcare Delivery Research Program

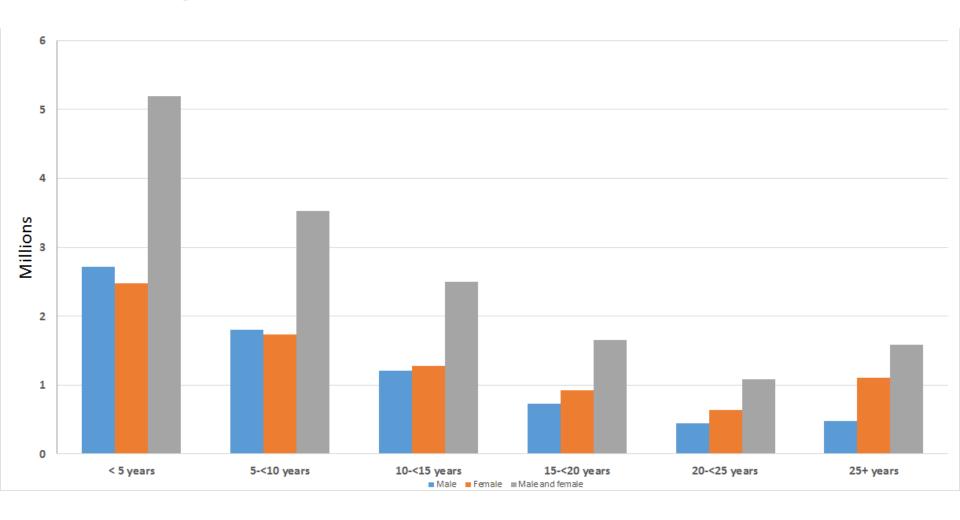
Division of Cancer Control and Population Sciences

Estimated and Projected Number of U.S. Cancer Survivors

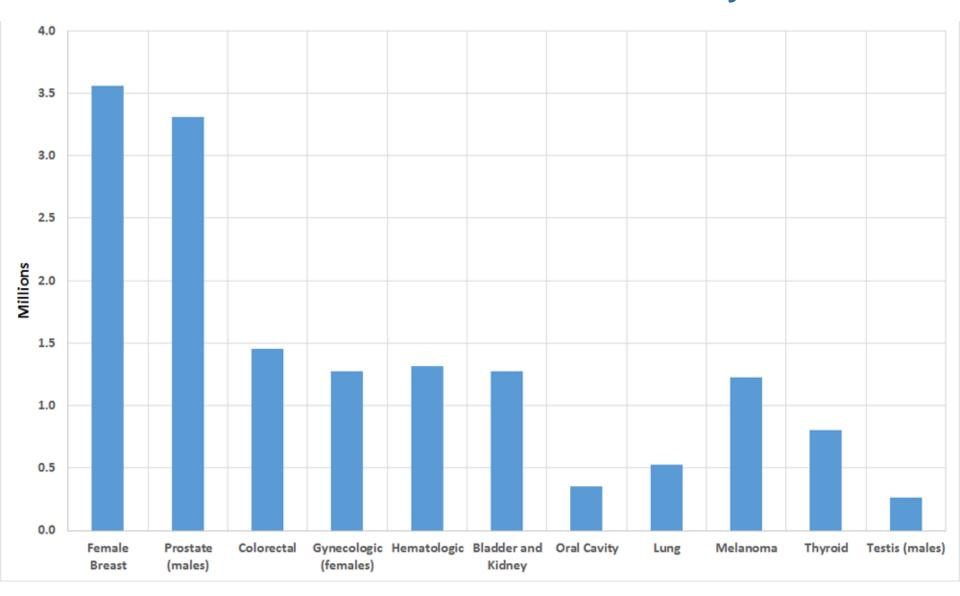


Bluethmann et al, Cancer Epidemiol Biomarkers Prev 2016:25:1029-36

Estimated Number of U.S. Cancer Survivors By Years Since Diagnosis



Estimated Number of U.S. Cancer Survivors by Site



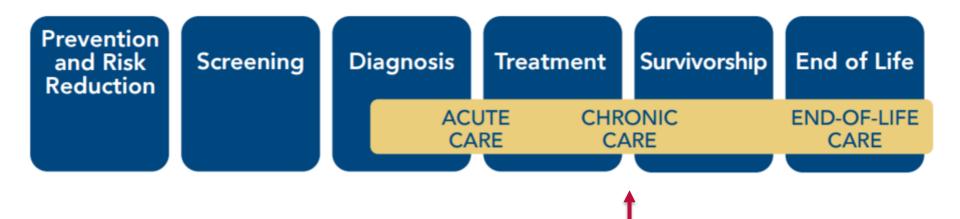
Different Ways of Defining Cancer Survivor

- Individuals living with a cancer diagnosis
- Individuals surviving 5 years or more postdiagnosis (long-term survivors)
- Individuals who have completed active treatment (surgery, chemotherapy, radiotherapy, transplantation)

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- Individuals who have completed active treatment (surgery, chemotherapy, radiotherapy, transplantation)
- Individuals receiving extended treatment to control disease

Cancer Prevention and Control Continuum



Cancer Survivorship Research

Rise in publications

2000: 23

2016: 488

Lines of Research

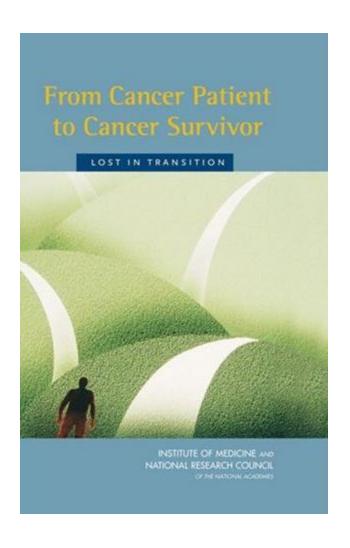
Disease recurrence

Late effects

Quality of life

Delivery of care

Lost in Transition



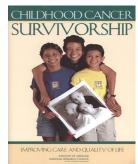
- Transition from active treatment to post-treatment care is critical to the long-term health of cancer survivors
- Unfortunately, many patients are "lost in transition" and do not receive the care they should

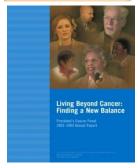
Institute of Medicine, 2006

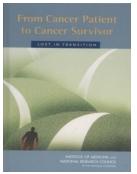
Recommendations from the President's Cancer Panel and IOM Reports

- When treatment ends, all survivors should receive a summary record that includes important disease characteristics and treatments received
- In addition, they should be provided with a follow-up care plan incorporating available evidence-based standards of care

Treatment summary + Follow-up care plan = Survivorship Care Plan (SCP)







Follow-up Care Plan

- Prevention of recurrent and new cancers and late effects
- Surveillance for disease progression or recurrence and for second cancers; screening for medical and psychosocial late effects
- Intervention for consequences of cancer and its treatment (e.g., lymphedema, pain, fatigue, employment, and financial issues)
- Coordination of care (e.g., frequency of visits, tests, and who is performing these)

Surveillance Among Colorectal Cancer Survivors

- Recommended surveillance first 12-18 months post-treatment
 - Colonoscopy: 18% 61%
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- Correlates of adherence
 - Focus largely on nonmodifiable (e.g., socio-demographic and disease/treatment) factors
 - Younger, White, fewer comorbidities, insured
 - Colonic site of disease, adjuvant chemotherapy
 - Limited research on provider or organizational factors

Patient Perspectives on Surveillance After Cancer Treatment

Patient perceptions of routine surveillance

<u>Positive</u>: High rates of overall satisfaction

Stress and anxiety acceptable in relation to benefit

Evaluation for recurrence most important reason for follow-up

Negative: Unmet expectations for information exchange

Anxiety and stress related to follow-up visits and tests

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Patient preference for delivery by provider type

Open to nurse follow-up as long as specialist is involved

Willingness to have PCP assume a larger role

Concerns about losing contact with specialists

Satisfaction generally high regardless of provider

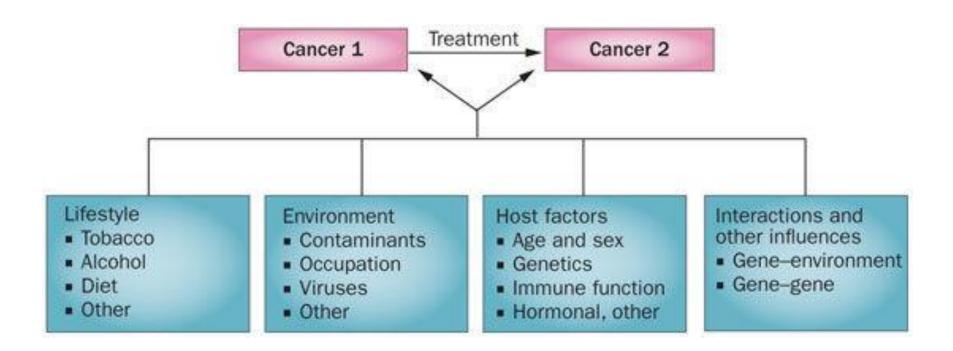
Prevalence of Prior Cancer Among Persons Newly Diagnosed with Cancer

- Of incident cancers diagnosed 2009-2013, 18.4% represented a second order or higher primary cancer
- 25.2% of older (<u>></u> 65 years) adults and 11% of younger adults newly diagnosed with cancer had prior history of cancer

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- 25.2% of older (≥ 65 years) adults and 11% of younger adults newly diagnosed with cancer had prior history of cancer
- Prevalence of prior cancer varied by incident cancer type, ranging from 3.5% to 36.9%, with most in a different cancer site
- > 30% of older adults with tobacco or HPV related cancers had a prior cancer
- 36.9% of older adults with myeloid leukemia had a prior cancer

Risk Factors for Second Cancers



Travis et al, Nat Rev Clin Oncol 2013;10,289-301

Models of Survivorship Care

- Acknowledgement of limitations of "one-size-fits-all" approach
- Growing interest in models that provide more tailored and coordinated care
- Evolving international consensus on potential merits of riskstratified survivorship care models

United Kingdom: National Cancer Survivorship Initiative¹

Canada: Cancer Care Ontario²

Australia: Clinical Oncology Society of Australia³

United States: American Society of Clinical Oncology⁴

¹england.nhs.uk/wp-content/uploads/2016/04/stratified-pathways-update.pdf

²cancercare.on.ca/common/pages/UserFile.aspx?fileId=258056

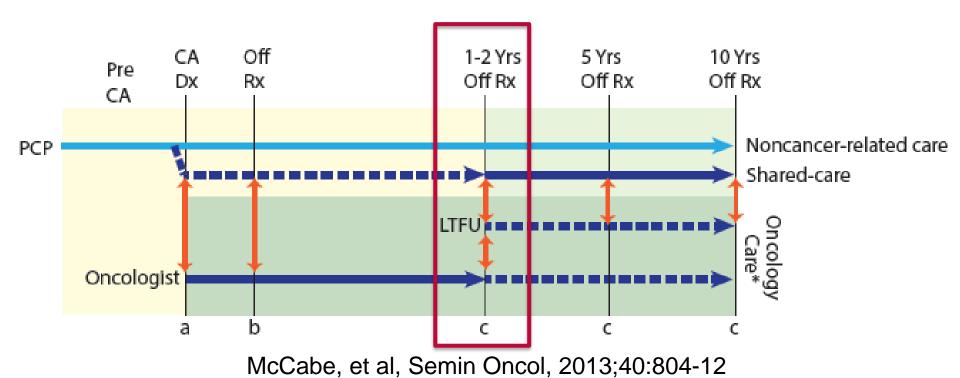
³cosa.org.au/media/332340/cosa-model-of-survivorship-care-full-version-final-20161107.pdf

⁴McCabe et al, J Clin Oncol 2013;31:631-40

Risk-Stratified Shared Care Model

Low Risk

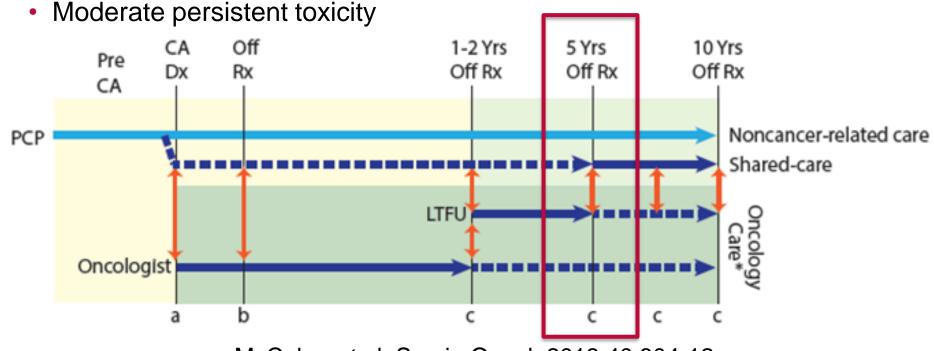
- Surgery only or chemotherapy that did not include agents such as anthracyclines and alkylators
- Low risk of recurrence
- Mild or no persistent toxicity



Risk-Stratified Shared Care Model

Moderate Risk

- Low/moderate dose radiation therapy
- Low/moderate dose of agents such as anthracyclines and alkylators
- Autologous transplant
- Moderate risk of recurrence

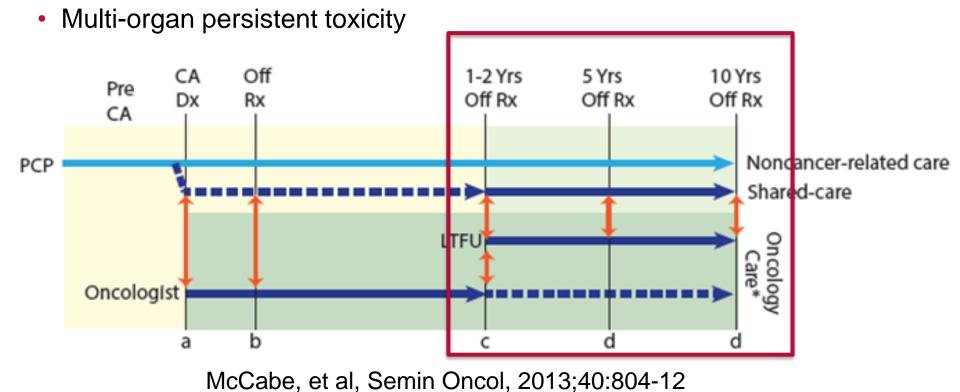


McCabe, et al, Semin Oncol, 2013;40:804-12

Risk-Stratified Shared Care Model

High Risk

- High dose radiation therapy
- High dose of agents such as anthracyclines and alkylators
- Allogeneic transplant
- High risk of recurrence



Summary

- Growing evidence base on risk factors for recurrence, second primary cancers, and late effects
- Initial development of clinical practice guidelines for survivorship care
- Follow-up care remains suboptimal for many cancer survivors
- Efforts to tailor follow-up care to survivors' risks and needs are in their infancy
- Limited evidence to support effectiveness of care models that have been described
- Limited progress in integrating primary care providers into survivorship care

Future Directions

- Develop comprehensive evidence-based risk stratification models
- Fill evidence gaps and refine existing clinical practice guidelines for survivorship care
- Understand and influence mechanisms that can promote better coordination of care for cancer survivors
- Design and conduct studies to evaluate different survivorship care delivery models
- Conduct research, based on implementation science, to promote widespread adoption of effective care models

Paul.Jacobsen@nih.gov



www.healthcaredelivery.cancer.gov



www.cancer.gov/espanol