



Quality Measures & Project Resources

Updated
February 2025

This project was approved by the University of Kansas Medical Center's
Institutional Review Board: STUDY00160108

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Project Overview

The Problem	Rural cancer survivors experience a higher risk of negative health outcomes and require coordinated care to address the many effects of cancer and its treatment.
The Opportunity	Primary care providers (PCPs) recognize the importance of providing high-quality, evidence-based survivorship care and are well-positioned to meet survivor needs. However, these needs are often unmet due to limitations in knowledge, lack of resources, and administrative demands. Practical strategies are needed to help PCPs improve cancer survivorship care.
The Plan	Project KanSurvive will test implementation strategies to optimize the adoption of evidence-based practices for cancer survivorship care in rural primary care settings.
The Investigators	Lead Primary Investigator: Allen Greiner, MD, MPH <ul style="list-style-type: none">• Department of Family Medicine & Community Health Multiple Primary Investigator: Jennifer Klemp, PhD, MPH, MA <ul style="list-style-type: none">• Division of Medical Oncology, Internal Medicine
The Goal	Conduct a cluster-randomized trial in 16 rural PCPs to determine whether 1) a virtual scribe intervention, 2) a clinic level team-based care intervention, or 3) enhanced usual care most improves the delivery of evidence-based, cancer survivorship care.
The Funding	Project KanSurvive is a five-year, funded by the National Cancer Institute (NCI) under Award Number 1U01CA290664-01.

Project Goals

KanSurvive attempts to simplify expectations for PCPs by working towards three crucial goals:

- 1** We want PCP systems to always know the cancer diagnosis of every cancer survivor, at the most detailed ICD-10 level in the electronic health record (EHR), of every survivor.
- 2** We want PCPs to have EHR tools and point-of-care resources to order and document delivery of guideline concordant care to all cancer survivors.
- 3** We want PCPs to take annual action (at annual physical or wellness visits) to order or deliver most, if not all, survivorship care necessary for survivors to achieve optimal health.

Identifying Cancer Survivors

Identifying cancer survivors in your patient panel is essential for providing personalized, evidence-based care.

Practical methods to identify cancer survivors in your practice may include:

- **Querying your EHR** - Search for both active and historical cancer diagnoses by ICD-10 codes (see table below), Problem Lists, and/or Past Medical History
 - ICD-10 Tool: <https://icd10cmtool.cdc.gov/?fy=FY2025>
- **Reviewing EHR** - Progress notes, medication lists, oncology, radiology and/or pathology reports

Breast Cancer

Malignant Neoplasm of Breast

- C50

Ductal or Lobular Carcinoma in Situ (DCIS / LCIS)

- D05 - Carcinoma in situ of breast

Personal History of Breast Cancer

- Z85.3

Colorectal Cancer

Malignant Neoplasm of Colon / Rectal Cancer

- C18 - C21

Personal History of Colorectal Cancer

- Z85.038 - Personal history of other malignant neoplasm of large intestine
- Z85.048 - Personal history of other malignant neoplasm of rectum, rectosigmoid junction, and anus

Lung Cancer

Malignant Neoplasm of Bronchus and/or Lung

- C33 - C34

Personal History of Lung Cancer

- Z85.118 - Personal history of other malignant neoplasm of bronchus and lung

Prostate Cancer

Malignant Neoplasm of Prostate

- C61

Personal History of Prostate Cancer

- Z85.46

Summary of Measures

Breast Cancer (BC)	<ul style="list-style-type: none">• BC surveillance• Osteoporosis screening
Colorectal Cancer (CRC)	<ul style="list-style-type: none">• CRC surveillance
Lung Cancer (LC)	<ul style="list-style-type: none">• LC surveillance
Prostate Cancer (PC)	<ul style="list-style-type: none">• PC surveillance• Osteoporosis screening
Universal Measures	<ul style="list-style-type: none">• BC screening• CRC screening• LC screening• Cancer diagnosis on Problem List• Cancer treatment history documented• Family history assessment• Genetic testing for hereditary cancer syndromes• Depression/distress screening & intervention• BMI screening & intervention• Tobacco use screening & intervention

Breast Cancer (BC) Surveillance in BC Survivors

ICD-10:C50

**Denominator
Criteria**
(Eligible Cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of BC **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible Cases)

- Patient has a history of bilateral mastectomy **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

- Patients with one or more mammograms during the assessment period
- Appropriate screenings are defined as:
 - Screening, diagnostic film, digital or digital breast tomosynthesis (3D) mammography results documented and reviewed
- OR**
- Screening, diagnostic film, digital or digital breast tomosynthesis (3D) mammography results were not documented and reviewed, reason not given

Basis for Measure

- [NCCN - Breast Cancer](#)

**Additional
Resources**

Osteoporosis Screening in BC Survivors

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of BC **AND**
- History of treatment with an Aromatase Inhibitor (AI) (e.g., exemestane, letrozole, anastrozole)
- A patient encounter (virtual / in-person office visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with documented assessment of fracture risk or currently receiving therapy for osteoporosis.

- Currently receiving treatment with a bisphosphonate (e.g., alendronate, risedronate, ibandronate, or zoledronic acid) or denosumab

OR

- Bone mineral density (BMD) measured by dual-energy x-ray absorptiometry (DEXA) within the assessment period

Basis for Measure

- [NCCN - Breast Cancer Survivorship](#)

Additional Resources

- [MD Anderson - Breast Cancer: Bone Health](#)
-

Colorectal Cancer (CRC) Surveillance in CRC Survivors

ICD-10:C18-C21

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of CRC **AND**
- A patient encounter (virtual / in-person office visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient has a past history of total colectomy **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with appropriate colorectal surveillance defined by any one of the following criteria:

- Colonoscopy within past 15 months

OR

- Colonoscopy within past 3 years AND had a previous colonoscopy performed ≥ 1 year after diagnosis AND most recent colonoscopy did not show an advanced adenoma

OR

- Colonoscopy within past 5 years AND date of cancer diagnosis > 5 years prior to assessment date AND most recent colonoscopy did not show an advanced adenoma

OR

- Colonoscopy within past 3 years AND had \geq colonoscopies after diagnosis (not including perioperative colonoscopy)

Basis for Measure

- NCCN - Colorectal Cancer

Additional Resources

Lung Cancer (LC) Surveillance in LC Survivors

ICD-10:C33-C34

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of:
 - Stage I or II non-small cell LC **OR**
 - Stage III or IV non-small cell oligo-metastatic LC treated with definitive intent **OR**
 - Small cell LC **AND**
- A patient encounter (virtual / in-person office visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

- Patients with one or more surveillance screenings as defined by any of the following criteria:
- CT scan of lung performed in past 7 months **OR**
 - CT scan of lung performed in past 13 months **AND** ≥ 30 months after diagnosis of lung cancer

Basis for Measure

- [NCCN - Non-Small Cell Lung Cancer](#)

**Additional
Resources**

Prostate Cancer (PC) Surveillance in PC Survivors

ICD-10:C61

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of PC **AND**
- A patient encounter (virtual / in-person office visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with appropriate prostate cancer surveillance as defined by any of the following criteria:

- Prostate specific antigen (PSA) within past 6 months **OR**
- PSA within past 12 months AND diagnosis of PC was > 5 years prior to assessment date **OR**
- Documentation the patient declined prostate cancer screening after informed decision-making (watchful waiting)

Basis for Measure

- [NCCN - Prostate Cancer](#)

**Additional
Resources**

Active surveillance: Closely monitoring prostate cancer with the goal of providing therapeutic treatment if the cancer advances.

Watchful waiting: Monitoring prostate cancer with a physical exam and medical history, without routine biopsies, until symptoms appear or are likely to occur.

Osteoporosis Screening in PC Survivors

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of PC **AND**
- History of treatment with androgen deprivation therapy (ADT) (e.g., leuprolide, zoladex, triptorelin, histrelin, degarelix, relugolix, bicalutamide, flutamide)
- A patient encounter (virtual / in-person office visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with a documented assessment of fracture risk or currently receiving therapy for osteoporosis:

- Currently receiving treatment with a bisphosphonate (e.g., alendronate, risedronate, ibandronate, or zoledronic acid) or denosumab

OR

- Bone mineral density (BMD) measured by dual-energy x-ray absorptiometry (DEXA) within with assessment period

Basis for Measure

- [NCCN - Prostate Cancer](#)

Additional Resources

Universal Measure: BC Screening

Denominator Criteria (Eligible cases)

- Female patients age 40 to 75 years on date of assessment **AND**
- A personal history of lung and/or colorectal cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient has a personal history of BC **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with one or more mammograms during the assessment period.
Criteria may include:

- Screening, diagnostic film, digital, or digital breast tomosynthesis (3D) mammography; **OR**
- Documentation that patient declined mammography after informed decision-making

Basis for Measure

- [American Cancer Society - Breast Cancer Screening](#)
- [USPSTF - Breast Cancer Screening](#)

Additional Resources

- [CDC - Managing Breast Cancer Risk](#)
-

Universal Measure: CRC Screening

Denominator Criteria (Eligible cases)

- Patients age 45 to 75 years on date of assessment **AND**
- A personal history of breast, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient has a past history of total colectomy **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with one or more screenings for CRC as defined by the following criteria:

- High-sensitivity guaiac fecal occult blood test (gFOBT) within the assessment period **OR**
- Fecal immunochemical test (FIT) within the assessment period **OR**
- Stool DNA (sDNA) - FIT within the assessment period **OR**
- Flexible sigmoidoscopy during the 5 years prior to the assessment period **OR**
- Colonoscopy during the 10 years prior to the assessment period **OR**
- CT colonography during 5 years prior to assessment period

Basis for Measure

- [American Cancer Society - Colorectal Cancer Screening Guidelines](#)
 - [USPSTF - Colorectal Cancer Screening](#)
-

Universal Measure: LC Screening

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person office visit) with a provider within the assessment period **AND**
- Screened positive for tobacco/nicotine use

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

- Patient identified as tobacco user and was referred for low-dose CT for lung cancer screening **OR**
- Patient identified as tobacco user and did not receive a referral for low-dose CT for lung cancer screening)

Basis for Measure

- [NCCN - Lung Cancer Screening](#)
 - [USPSTF - Lung Cancer Screening](#)
-

Universal Measure: Cancer Documentation in Problem List

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with the following criteria:

- Problem List is in the medical record **AND**
- Problem List includes the patient's cancer diagnosis

Basis for Measure

- [NCCN - Cancer Survivorship Guidelines](#)
 - [American Academy of Family Physicians](#)
-

Universal Measure: Documentation of Cancer Treatment History

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

- Patients with their cancer treatment history documented in the EHR.

Basis for Measure

- [NCCN - Cancer Survivorship Guidelines](#)
-

Universal Measure: Family History of Cancer Assessment

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with a **three-generation family history** of cancer documented in the EHR:

- Family history provides explicit documentation of any cancer in first generation (brother/sisters); second generation (parents); and third generation (grandparents) **AND**
- Documentation that family history was reviewed/updated within the past 5 years

Basis for Measure

- [NCCN - Cancer Survivorship Guidelines](#)
- [American Academy of Family Physicians](#)

Additional Resources

- [Assessment of Family History](#)
-

Universal Measure: Genetic Testing for Hereditary Cancer

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients with the following documented in the EHR:

- Evidence of referral for genetic counseling **OR**
- Evidence genetic testing was completed

Basis for Measure

- NCCN - Genetic/Familial High Risk Assessment for Colorectal, Endometrial, and Gastric Cancers
 - NCCN - Genetic/Familial High-Risk Assessment for Breast, Ovarian, Pancreatic, and Prostate Cancers
-

Universal Measure: Distress/Depression Screening

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient refuses screening **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

Patients screened for distress/depression using an appropriate standardized screening tool during the assessment period.

- Screening tools may include:
 - NCCN Distress Thermometer
 - Patient Health Questionnaire (PHQ-2/9)
 - Generalized Anxiety Disorder (GAD-2/7)
 - Beck Depression Inventory (BDI / BDI-II)
 - Center for Epidemiologic Studies Depression Scale (CES-D)
- Patient was screened for depression using a standardized tool **OR**
- Patient was not screened for depression using a standardized tool **OR**
- Patient is currently under treatment for depression

Basis for Measure

- [NCCN - Distress Screening in Cancer Survivors](#)
 - [USPSTF - Depression Screening in Adults](#)
-

Universal Measure: Distress/Depression Intervention

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient refuses screening **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Patients who screened positive for distress/depression using an appropriate standardized screening tool during the assessment period and have a follow-up plan documented.

Numerator

Follow-up plan: Documented follow-up for a positive screening must include one or more of the following:

- Additional evaluation or assessment
 - Referral to a mental health provider/practitioner for treatment
 - Pharmacological intervention
- A follow-up plan is documented on the date of the positive depression screening **OR**
 - A follow-up plan is not documented on the date of the positive depression screening **OR**
 - Patient is currently under treatment for depression

Basis for Measure

- [NCCN - Distress Screening in Cancer Survivors](#)
 - [USPSTF - Depression Screening in Adults](#)
-

Universal Measure: BMI Screening

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient refuses screening **OR**
- Patient is pregnant on the date of the assessment or anytime during the measurement period **OR**
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Numerator

- BMI is documented **OR**
- BMI is not documented

Basis for Measure

- [NCCN - Cancer Survivorship Guidelines](#)
 - [USPSTF](#)
 - [American Cancer Society](#)
-

Universal Measure: BMI Intervention

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

Denominator Exclusions (Ineligible cases)

- Patient refuses screening **OR**
- Patient is pregnant **OR**
- Patient's BMI is documented as being within normal limits: Age ≥ 18 years with BMI ≥ 18.5 and < 25 kg/m² **OR**
- Patients for whom weight reduction/gain would complicate other underlying health conditions (e.g., mental illness, nutritional deficiency)
- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Patients with a documented BMI outside of the recommended parameters:

- A follow-up plan is documented **OR**
- No follow-up plan is documented; no reason given

Follow-up plan: Proposed outline of treatment as a result of BMI outside of recommended parameters. May include:

Numerator

- Education
- Referral (e.g., Registered Dietitian, occupational therapy, mental health, physical therapy) for lifestyle/behavioral therapy
- Pharmacological treatment
- Dietary supplements
- Exercise counseling
- Nutrition counseling

Basis for Measure

- [NCCN - Cancer Survivorship Guidelines](#)
 - [USPSTF](#)
 - [American Cancer Society](#)
-

Universal Measure: Tobacco/Nicotine Use Screening

**Denominator
Criteria**
(Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person visit) with a provider within 36 months prior to the assessment

**Denominator
Exclusions**
(Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Patients screened for tobacco/nicotine use at least once during the assessment period:

Numerator

- Patient screened for tobacco use AND identified as a tobacco user **OR**
- Patient screened for tobacco use AND identified as a non-tobacco user **OR**
- Patient not screened for tobacco use; reason not given

Basis for Measure

- [NCCN - Tobacco Use Screening & Cessation](#)
 - [USPSTF - Tobacco Use in Adults](#)
-

Universal Measure: Tobacco/Nicotine Use Intervention

Denominator Criteria (Eligible cases)

- Patients age 18 to 75 years on date of assessment **AND**
- A personal history of breast, colorectal, lung, and/or prostate cancer **AND**
- A patient encounter (virtual / in-person office visit) with a provider within the assessment period **AND**
- Screened positive for tobacco/nicotine use

Denominator Exclusions (Ineligible cases)

- Patient used hospice services anytime during measuring period **OR**
- Patient has transferred primary care to another practice

Patients who screened positive for tobacco/nicotine use at least once during the assessment period and who received a tobacco cessation intervention within the assessment period.

Tobacco Cessation Intervention: Includes brief counseling (3 minutes or less), and/or pharmacotherapy

Numerator

- Patient identified as tobacco user and received tobacco cessation intervention (counseling and/or pharmacotherapy)
- OR**
- Patient identified as tobacco user and did not receive tobacco cessation intervention (counseling and/or pharmacotherapy); reason not given

Basis for Measure

- [NCCN - Tobacco Use Screening & Cessation](#)
 - [USPSTF - Tobacco Use in Adults](#)
-