The 5-year relative survival rate for common cancers is at least **3X** higher for cancers detected at an early stage than at a late stage.°



SCAN HERE for more clinician resources about cancer screening and MCED tests, including local community resources that can help increase access to screening.



BUILDING BRIDGES TO IMPROVE CARE DELIVERY AND CLOSE GAPS IN HEALTHCARE **EQUITY IN PRIMARY CARE PRACTICE**

^aThe cancer screenings included in this survey were breast, cervical, colorectal, lung, oral, prostate, skin, and testicular cancer; ^bBased on NCI-reported data, the cancer types in which early detection has led to improved patient outcomes include anal, bladder, breast, cervical, colorectal, esophageal, kidney, liver, lung, pancreatic, prostate, skin, stomach, and uterine cancers. Current data suggest that stage of ovarian cancer at diagnosis does not impact mortality rates; "Based on colorectal, lung, prostate, and female breast cancers diagnosed from 2011 to 2017 and follow-up of patients through December 31, 2017.

Menon U, et al. Lancet. 2021;397(10290):2182-2193; National Cancer Institute (NCI) Surveillance, Epidemiology, and End Results (SEER) Program. https://seer.cancer.gov/statfacts/html/all.html



POTENTIAL WORKFLOW FOR MCED TESTING

MCED testing should be used to **complement** recommended screening approaches to identify cancers they do not cover, **NOT** in place of current screening.

Assess Patient Eligibility

- Pretest Counseling
- MCED Test Processing
 - Patient blood sample sent to test manufacturer
 - **Patient Notification**

"NO CANCER SIGNAL DETECTED" Patient notified and additional health screenings discussed as needed

- **Order MCED Test for Interested Patients**
- Results delivered via portal within 2 weeks of sample receipt by lab
- **B. "CANCER SIGNAL DETECTED"** \mathbf{x} Diagnostic results and next steps discussed with patient

SUGGESTED INITIAL DIAGNOSTIC STEPS FOLLOWING A "CANCER DETECTED" RESULT^a

CANCER SIGNAL Origin Prediction	PROPOSED FIRST-LINE PROCEDURES		
Multiple myeloma	Blood workup including peripheral blood smear, CBC with differential; chemistry tests including creatinine clearance, protein electrophoresis of blood/urine		
Upper Gl (esophagus, stomach)	Blood Work	Endoscopy	
Colorectal		Colonoscopy	
Head and neck		Physical exam, fiber optic exam, U/S, CT or MRI with contrast, PET-CT	
Pancreas, gallbladder		CT abdomen with IV contrast, MRCP, GI referral	
Ovary		CA-125 analysis, abdominal/pelvic exam, U/S (preferred)	
Lung		CT chest with or without IV contrast	
Liver, bile duct		U/S, CT, GI referral	
Breast		Diagnostic mammography with U/S (MRI if mammography screening within last 3 months)	
Lymphoid neoplasm		CT (neck, chest, abdomen, pelvis) with IV contrast, PET-CT	
Indeterminate		CT (neck, chest, abdomen, pelvis) with IV contrast, PET-CT	
CBC, complete blood count; GI, gastrointestinal; IV, intrave	nous; MRCP, magnetic resonance	e cholangiopancreatography; MRI, magnetic resonance imaging; PET-CT, positron emission tomography-CT; U/S, ultrasound.	

CANCER SCREENING A CLINICIAN REFERENCE GUIDE





of Americans will be diagnosed with cancer in their LIFETIME.



MORE THAN 2 MILLION new cases of cancer will be diagnosed this year.



70 of Americans are **NOT** UP TO DATE on at least 1 routine cancer screening.^a

EARLY CANCER DETECTION MAY LEAD TO BETTER OUTCOMES[®]



CBC, cor There currently are no quidelines for follow-up testing after a "cancer signal detected" MCED test result. This is not a comprehensive list of cancer signals returned but includes suggested initial diagnostic steps to consider for many common cancer signals identified. Adapted from: Fearmington FW, et al. Oral Oncol. 2024;152:106809; Funston G, et al. PLoS Med. 2020;17(10):e1003295; Nadauld LD, et al. Concers(Basel). 2021;13(14):3501.

DID YOU KNOW?

ONLY % of cancers are detected by a screening test.

WHAT IS A MULTI-CANCER EARLY **DETECTION (MCED) TEST?**

- An MCED test is a simple blood test that can detect from 2 to at least 50 different types of cancer, depending on the test
- The MCED tests that are currently available and in late-stage development analyze cell-free DNA (cfDNA) that is shed by tumors
- MCED tests can identify cancer and its tissue of origin by analyzing methylation patterns of cfDNA
- MCED testing has the potential to reduce or increase screening disparities
- Only 1 MCED test, Galleri, is currently available but it is not FDA approved

ADDING AN MCED TEST TO ROUTINE SCREENING HAS THE POTENTIAL TO FIND 3X AS MANY CANCERS AS ROUTINE SCREENING ALONE.

USPSTF RECOMMENDATIONS FOR SCREENING ASYMPTOMATIC PATIENTS

CANCER	PROPOSED FIRST-LINE PROCEDURES	CRITERIA	YEAR Published
Breast	Biennial screening mammography	Women aged 40-74 years	2024
	Cervical cytology every 3 years	Women aged 21-29 years	
Cervical	Cervical cytology every 3 years <mark>OR</mark> hrHPV every 5 years <mark>OR</mark> hrHPV + cervical cytology every 5 years	Women aged 30-65 years	2018; update in progress
Colorectal	 Stool-based testing Annual FIT or high-sensitivity guaiac-based testing sDNA-FIT every 1-3 years Colonoscopy every 10 years CT colonography every 5 years Flexible sigmoidoscopy Every 5 years Every 5 years + annual FIT 	 All aged 45-75 years Certain populations aged 76- 85 years 	2021
Lung	Annual LDCT	All aged 50-80 years with ≥20 pack year history of smoking and currently smoke or quit within the past 15 years	2021
Prostate	PSA testing	Men aged 55-69 years when elected with shared decision- making	2018; update in progress

CT, computed tomography; FIT, fecal immunochemical test; hrHPV, high-risk human papillomavirus; LDCT, low-dose CT; PSA, prostate-specific antigen; sDNA-FIT, stool DNA test with FIT; USPSTF. United States Preventive Services Task Force

ELIGIBILITY FOR MCED SCREENING

Alcohol use

Tobacco use

sunliaht)

Immunosuppression

• Exposure to cancer-causing

tobacco smoke, radiation,

substances (eq, fire smoke,

WHO IS ELIGIBLE

- Age ≥50 years
- Family or personal history of cancer
- Known genetic mutations

WHO IS NOT ELIGIBLE \mathbf{E}

- Pediatric populations (<21 years)
- Pregnant patients
- Patients with active cancer diagnosis or treated for cancer in last 3 years

- FACTORS THAT INCREASE CANCER RISK • Infectious agents
 - (eq, viruses, parasites)
 - Overweight/obesity



CRITERIA TO EVALUATE CANCER SCREENING TESTS

CRITERIA		WHY IMPORTANT		
High Specificity		To minimize false-positives and thereby reduce unnecessary workup, overdiagnosis, and overtreatment		
High Sensitivity		To detect early tumors that may be curable by surgery		
High Positive Predictive Value (PPV)		To reduce unnecessary workup, overdiagnosis, and overtreatment		
High Negative Predictive Value (NPV)		To reduce the probability of missing potentially curable tumors		
Ability to Localize Site of Tumor		To focus follow-on diagnostic interventions and minimize testing (eg, imaging) to localize the cancer signal origin (CSO)		
HOW DO MCED TESTS COMPARE?				
	Low-dose CT: 3.8%			
PPV	Mammography: 4.4%			
	Cologuard®: 2.6%			
	Currently-available MCED test: 43.1%			

THE CURRENTLY AVAILABLE **MCED TEST DEMONSTRATED**



% accuracy of **CSO identification** in clinical trials.