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Early Real-World Experience With Repeat Multi-Cancer Early Detection (MCED) Testing

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Dr. Ora Gordon

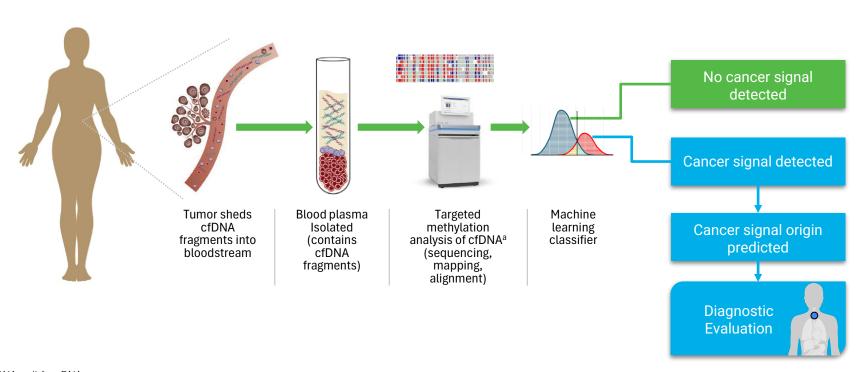
- Institutional research support from Grail
- Scientific Advisor Grail (within 24 months but not currently)
- Scientific Advisor, Genetic Technologies Corp



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Multi-Cancer Early Detection With Galleri® Test



Real World Evidence Cohorts





Repeat-test Cohort

5,794 individuals



First-test Cohort

47,016 individuals



≥2 valid test results by 4Aug23



First valid test result by 31Dec22



First valid test result was "No Cancer Signal Detected"



Excludes individuals with repeat tests



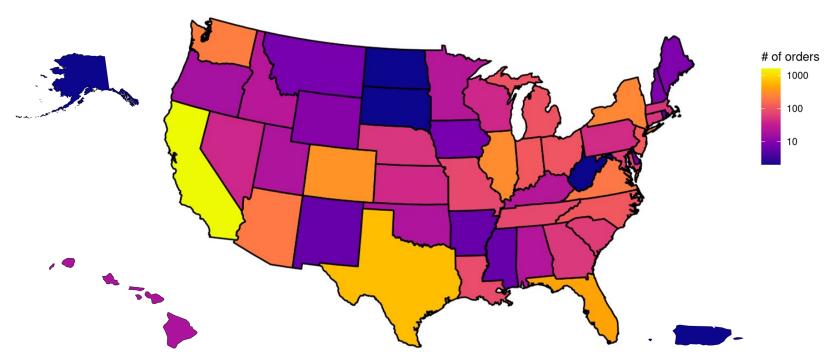
Clinical outcomes collected as part of controlled Quality Assurance program are limited by availability of information provided

Both cohorts exclude clinical study participants and practices with contractual limitations



Repeat Testing Spanned The United States

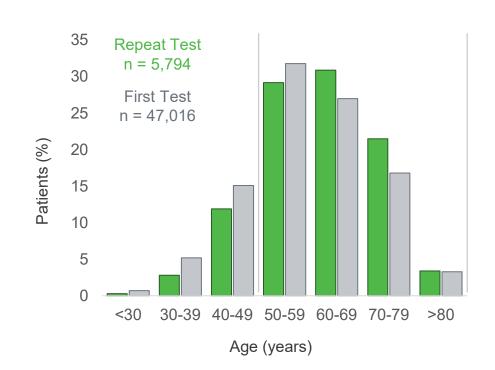
5794 total people had repeat testing as of Aug 2023





Most MCED Test Patients Are 50-70 Years Old

Age distribution was similar between repeat- and first-test cohorts, but significantly higher % of repeat test participants were ≥50



Age	Repeat Test	First Test
<50	871 (15%)	9,877 (21%)
≥50	4,923 (85%)	37,139 (79%)
p value < 0.0001		



Male

n = 3,367 (58%)

Median Age: 61.3 years

Range: 24-89

Female

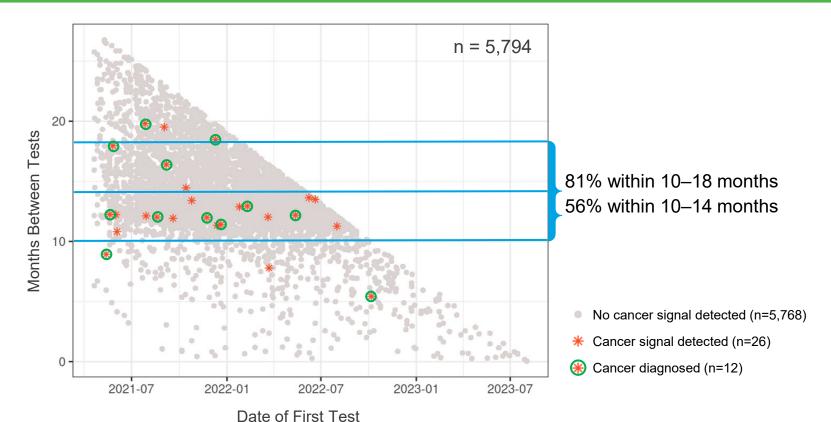
n = 2,427 (42%)

Median Age: 60.5 years

Range: 23-89

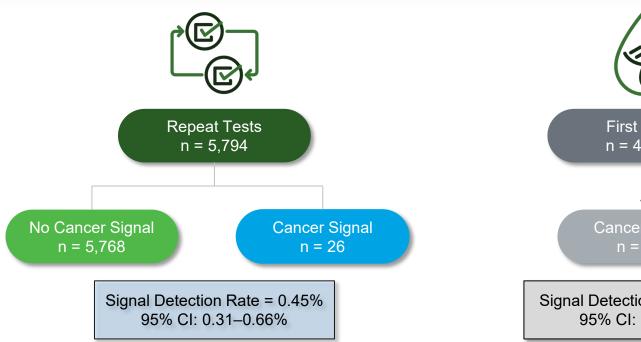
Most Repeat Test Were Taken Within 2 Months Of Annual Cadence

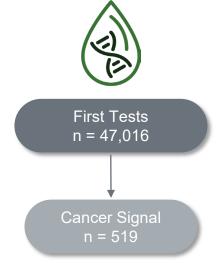




Cancer Signal Detection Rate Is 0.45% In Repeat Test Cohort





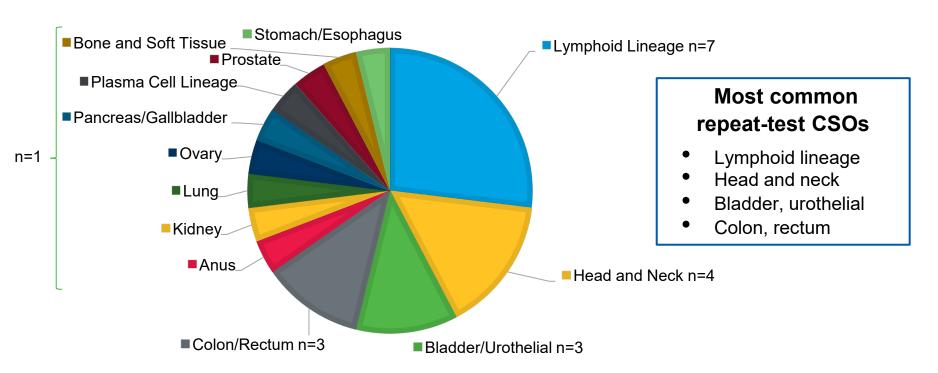


Signal Detection Rate = 1.1% 95% CI: 1.0–1.2%

Over 70% of CSOs With Repeat Testing Contain Cancers Without Current Screening Options

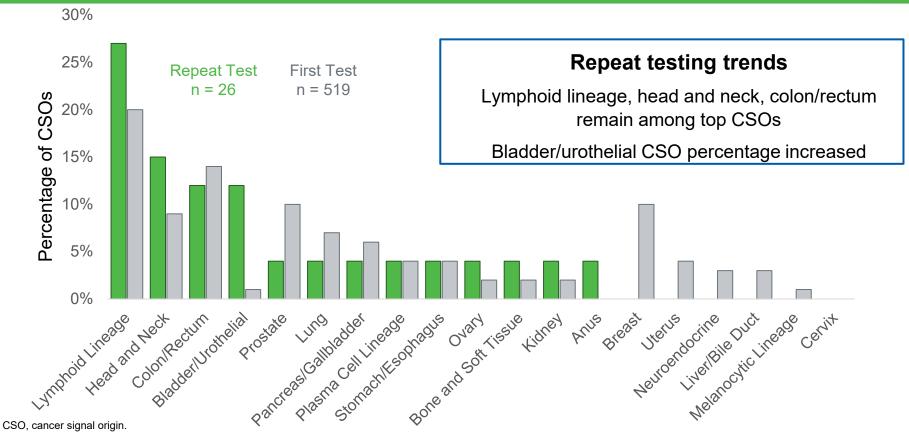


Cancer Signal Origin (n = 26)



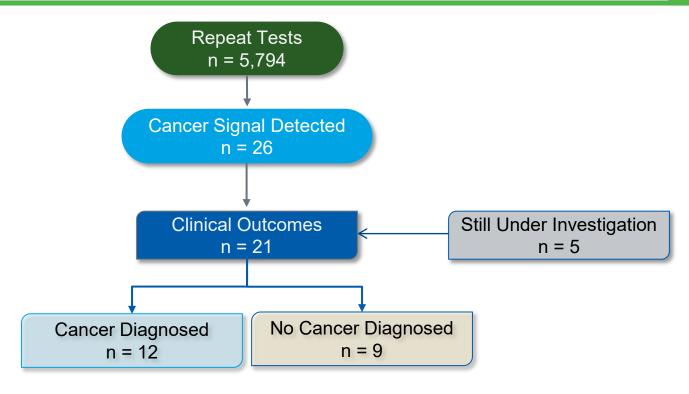
Repeat Testing Reveals Potential Shift Towards Cancers Without Recommended Screening





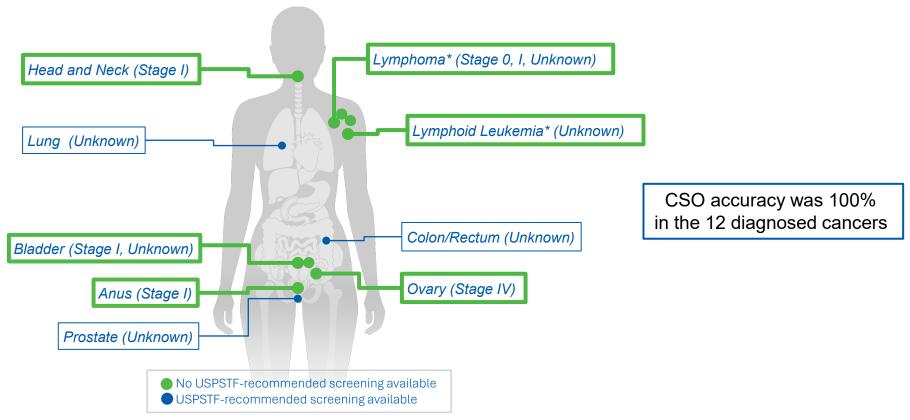
More Than 50% Of Patients With Known Clinical Outcomes Were Diagnosed With Cancer





Cancers Diagnosed After Repeat Testing Were Mostly Early Stage And Without Screening Options

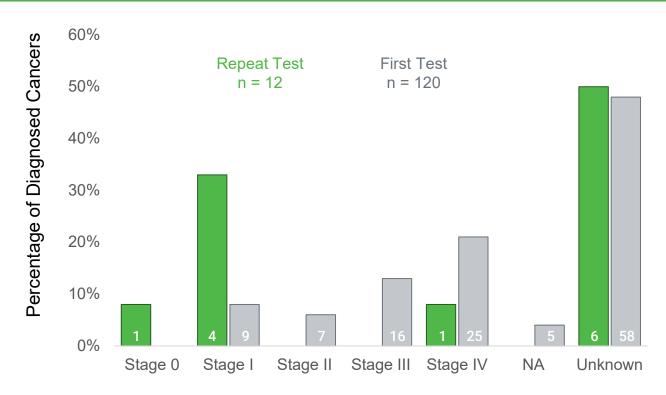




*Rai staging used for lymphomas.

High Percentage Of Stage I Diagnoses With Repeat Testing









- The strength of real-world evidence is that it provides insight into how a test is being used in a clinical practice setting and improves generalizability of data
- Limitations include limited data availability and timing of reporting between practices
- The population who have had repeat MCED testing may also be unusually health conscious
 - "Healthy volunteer effect" is well documented in cancer screening trials
- The data presented here are preliminary and descriptive in nature, signifying early trends that will need to be confirmed

Conclusions



- ☑ Cancer Signal Origin accuracy was 100%
 - CSO is a unique feature of this MCED test and helps direct diagnostic work up
- Among the 6 confirmed cancers with known stage, 5/6 were stage 0 or 1
 - 1 was stage 0: chronic lymphocytic leukemia
 - 4 were stage I: head and neck, anus, lymphoma, bladder
 - 1 was Stage IV: ovarian
- ☑ Repeat testing may improve early detection of multiple cancer types, including those currently without USPSTF-recommended screening



We gratefully acknowledge the contributions to this effort of the patients, staff, and healthcare providers who provided clinical data