



SARAH CANNON

The Cancer Institute of HCA

Leveraging Organizational Culture and Leadership to Promote Change

Howard A Burris, III, MD
Chief Medical Officer, Sarah Cannon

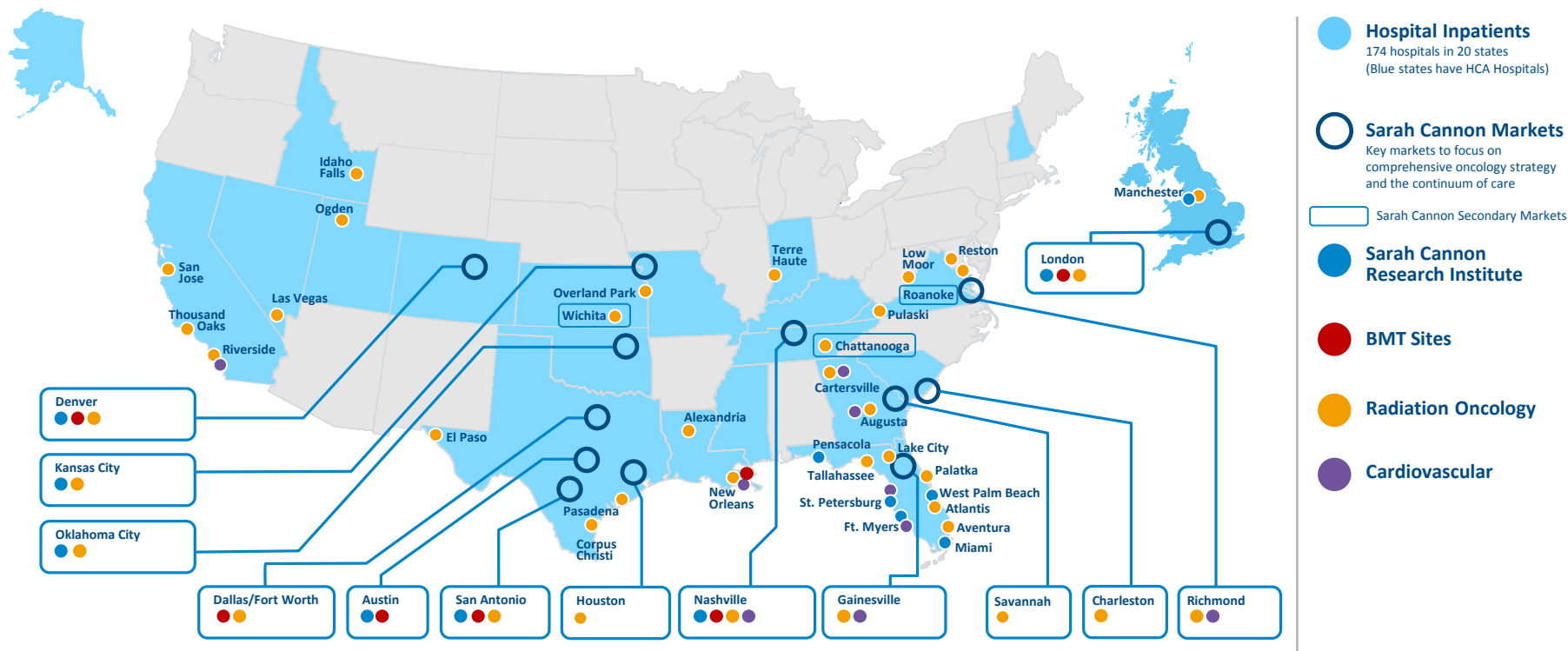
DISCLOSURES

- I have no personal conflicts of interest to disclose.
- Sarah Cannon, the Institution that employs Dr. Burris, has been paid for consulting/advisory roles from the following companies: Mersana, AstraZeneca, FORMA Therapeutics, Janssen, Novartis, Roche/Genentech, TG Therapeutics, MedImmune, and Bristol-Myers Squibb.
- Sarah Cannon, the Institution that employs Dr. Burris, has conducted research projects funded by the following companies: Roche/Genentech, Bristol-Myers Squibb, Incyte, Tarveda, Mersana, AstraZeneca, MedImmune, MacroGenics, Novartis, Boehringer Ingelheim, Lilly, Seattle Genetics, Abbvie, Bayer, Celldex, Merck, Celgene, Agios, Jounce, Moderna Therapeutics, CytomX Therapeutics, GlaxoSmithKline, Verastem, Tesaro, Immunocore, Takeda, Millennium, BioMed Valley Discoveries, Pfizer, PTC Therapeutics, TG Therapeutics, Loxo, Vertex, eFFECTOR Therapeutics, Janssen, Gilead Sciences, Valent Technologies, BioAtla, CicloMed, Harpoon Therapeutics, Jiangsu Hengrui Medicine, Daiichi SANKYO, H3 Biomedicine, Neon Therapeutics, OncoMed, Regeneron, and Sanofi.

- Technology - Patient ID, NAVQUE
- Personnel - Navigators, APP's
- Processes - Pathways, Molecular Cancer Conferences

- Improve speed and quality
- Reduce redundancy and waste
- Increase patient satisfaction

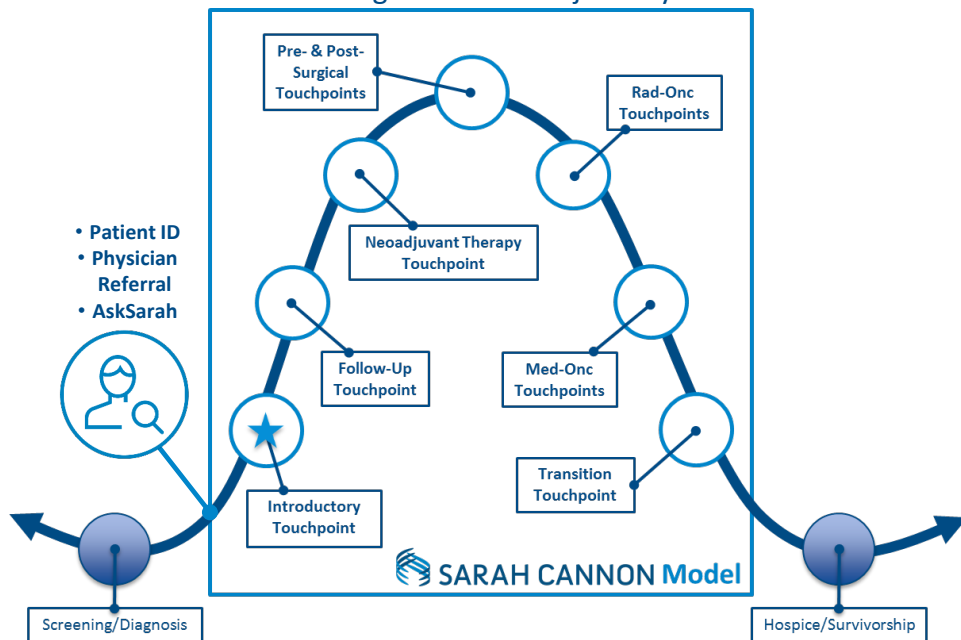
HCA/SARAH CANNON ASSET OVERVIEW



NAVIGATION WITH PATIENT ID AND NAVQUE

NAVIGATION WORKFLOW & MISSION

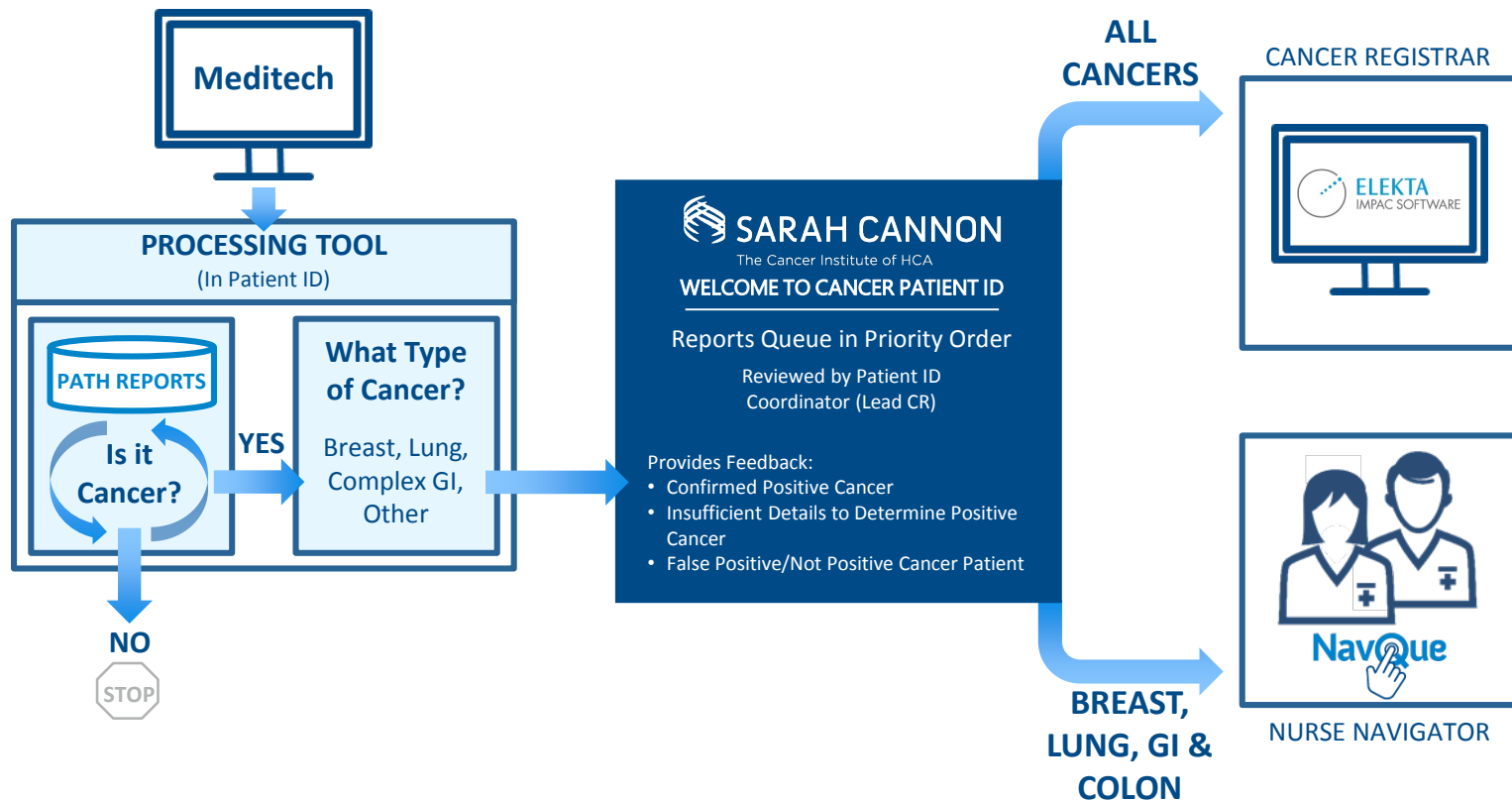
Navigation focuses on the critical period of vulnerability between **diagnosis** and **definitive treatment**;
Navigators continue to engage patients at critical transitions through their cancer journey.



MISSION: Navigators **care for cancer patients** by ensuring compliance to the treatment plan through removal of barriers to care

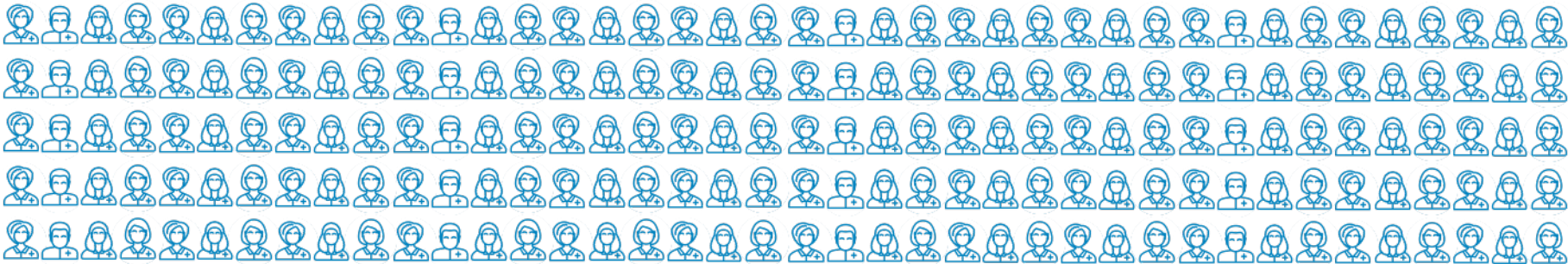
- 1 **Develop** trust with the physicians and patients through multidisciplinary care coordination
- 2 **Assist** in educating patients about their cancer so they can make informed decisions about their care
- 3 **Provide** emotional support to the patient, family and caregivers
- 4 **Improve** access and utilization of HCA partnered resources
- 5 **Advocate** for the patient's voice in development of the treatment plan

PATIENT ID PROCESS OVERVIEW



SARAH CANNON NURSE NAVIGATION

200+ Nurse Navigators, 14 Divisions, Covering 8 Disease Sites



Central/West Texas	Continental	Gulf Coast	MidAmerica	North Texas	San Antonio	TriStar
Capital	East Florida	Far West	Mountain*	North Florida	South Atlantic	West Florida*



BREAST



COMPLEX
GI



COLON



GYN



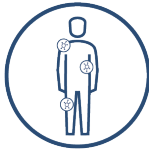
HEME



LUNG



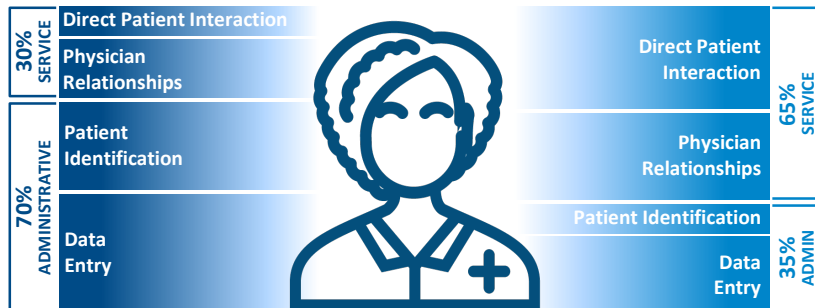
NEURO



SARCOMA

NAVIGATION OUTCOMES

Patient ID Has Enabled Navigators to Spend More Time With Physicians and Patients

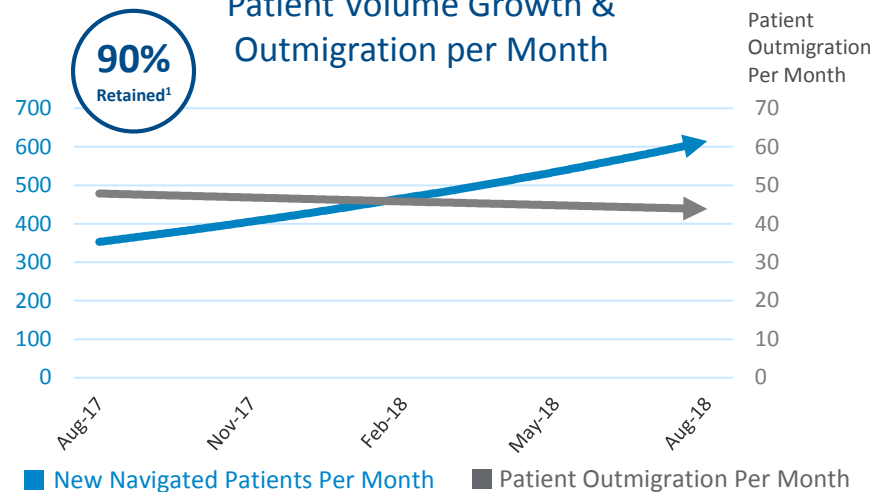


Pre-Patient ID
30% Physician/Patient Relations

<7% Navigator turnover

Post-Patient ID
65% Physician/Patient Relations

Patient Volume Growth & Outmigration per Month



SERVICE
+35% Increase in navigator time spent with patients and physicians

GROWTH
+59% Increase in navigated patients growth YTD 2018 vs 2017¹

SERVICE
75% Maintained Press Ganey top box patient satisfaction for overall navigation experience after introducing virtual navigation

QUALITY
≤30 Days From first treatment to diagnosis; Maintained timeliness of care¹

PRODUCTIVITY
96% Met productivity target with an increased benchmark from 175 to 200/year/navigator¹

NAVIGATION + PATHWAYS = IMPROVED PATIENT CARE

3,392+

Patients on Pathway

110+

Engaged Physicians across 9 Markets

50+

Navigators utilizing 20 pathways



Complex GI Pathways

All GI – Multidisciplinary Meeting 94%
733 Patients



Pancreatic – CA 19-9 92%
219 Patients



HCC – Overall Adherence 93%
284 Patients



Gastric – Her 2 100%
35 Patients



■ Pathway

■ Pre-Pathway



Thoracic Pathways

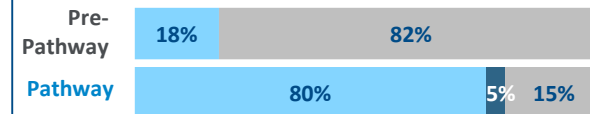
Clinical Stage Recorded (I & II) 100%
199 Patients



All Thoracic - MDM 89%
256 Patients



Breast Pathways BRCA



■ Performed ■ Not Performed ■ Eligible w/ No Record

Leveraging High-Quality Pathways to Measure Resource Use

- A fair and appropriate methodology for measuring Resource Use for oncologists is critical
- Pathways feasible alternative to episodes of care:
 - Can assess measure adherence to clinically appropriate course of care
 - Provides a mechanism to assess the quality and cost of care provided
 - Already being used by payers—and many practices

PERSONALIZED MEDICINE



NGS Testing - In the News

DRUG
DISCOVERY & DEVELOPMENT

FDA Finalizes Guidelines for Next-Generation Sequencing Tests

Fri, 04/13/2018 - 9:58am by FDA



HEALTHCARE FINANCE

MAR 16 MORE ON ANALYTICS

CMS approves Next Generation Sequencing for cancer patients

The FoundationOne CDx test is the first breakthrough-designated in vitro diagnostic test and can detect genetic mutations in 324 genes.



Susan Morse, Senior Editor



The Centers for Medicare and Medicaid Services has finalized coverage of Next Generation Sequencing for cancer patients.



Next-Generation Sequencing Proves Cost-Effective in Metastatic NSCLC

05/17/18

An economic model comparing different types of genetic testing in metastatic non-small cell lung cancer (NSCLC) showed that next-generation sequencing (NGS) is more cost-effective.



Next-Generation Sequencing for Metastatic NSCLC Associated With Substantial Cost Savings

Angelica Welch
Published Online: 5:05 PM, W

Forbes

MAR 6, 2018 @ 10:30 AM 9,474

All Cancer Patients Should Have Access To Genomic Testing

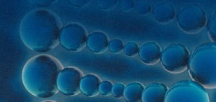
Days after Thanksgiving, the FDA approved Foundation Medicine's comprehensive genetic test for evaluating cancer. The idea—and practice—of testing tumors for specific DNA or protein abnormalities is not new. Previously, the agency listed several dozen approved companion diagnostic tests; these earlier tools check one or a few molecules to inform the cancer subtype, prognosis, and likelihood of response to treatments.

FOR THE ONCOLOGY SPECIALIST



OncologyLive
Expert Insights Into Oncology Research and Technology
VOL. 19 | NO. 4 | FEBRUARY 2018

NGS Testing Hits Clinical Practice



PRESENTED AT:

2018 ASCO
ANNUAL MEETING

#ASCO18

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PRESENTED BY: Howard A Burris, III, MD





ADVANCE OF THE YEAR

Progress in Treating Rare Cancers

As new data and technologies emerge, physicians are required to interpret and act upon increasingly complex information

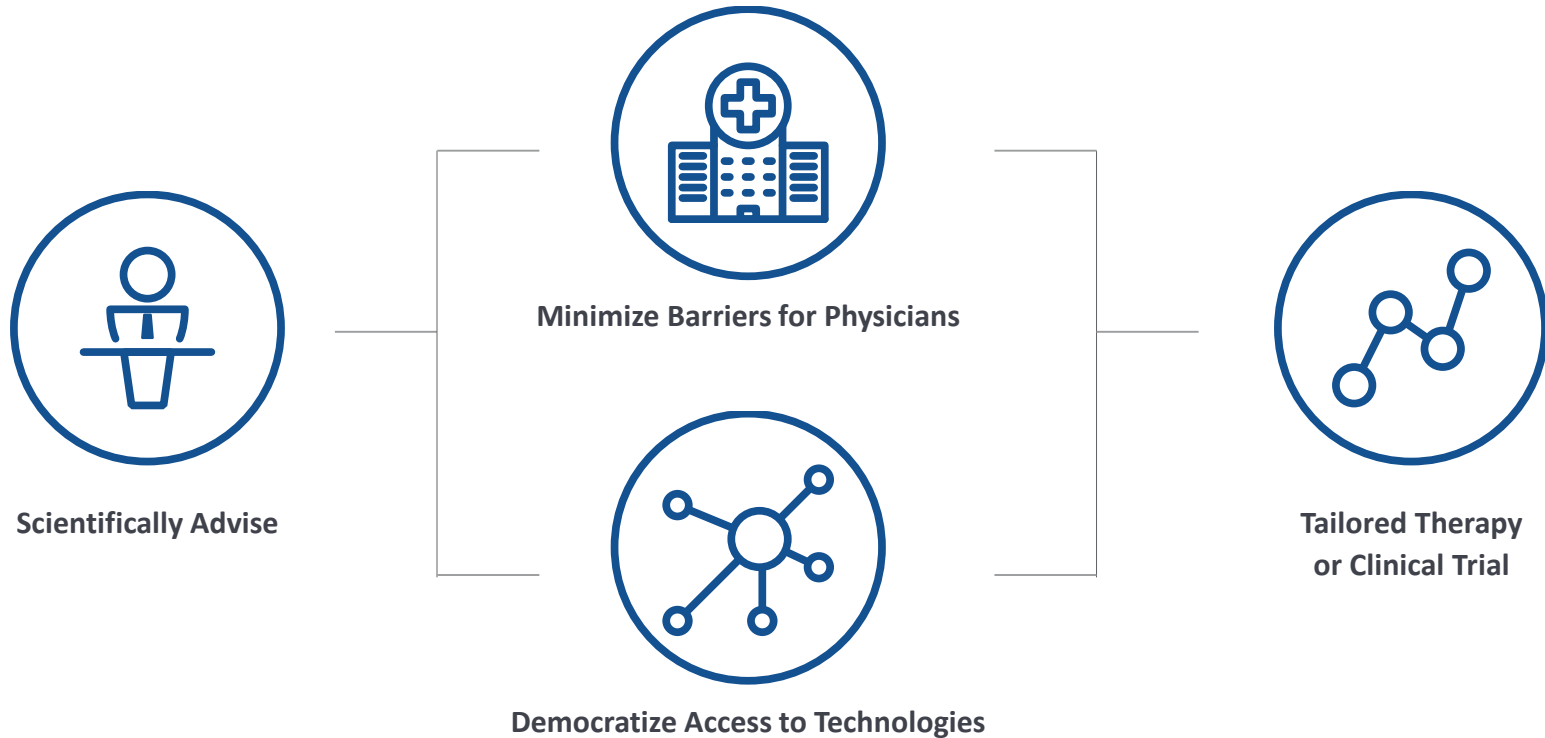
An increasing number of SOC treatment options and clinical trials require the knowledge of a molecular alteration

Molecular reports do not present information in an easily clinically actionable format

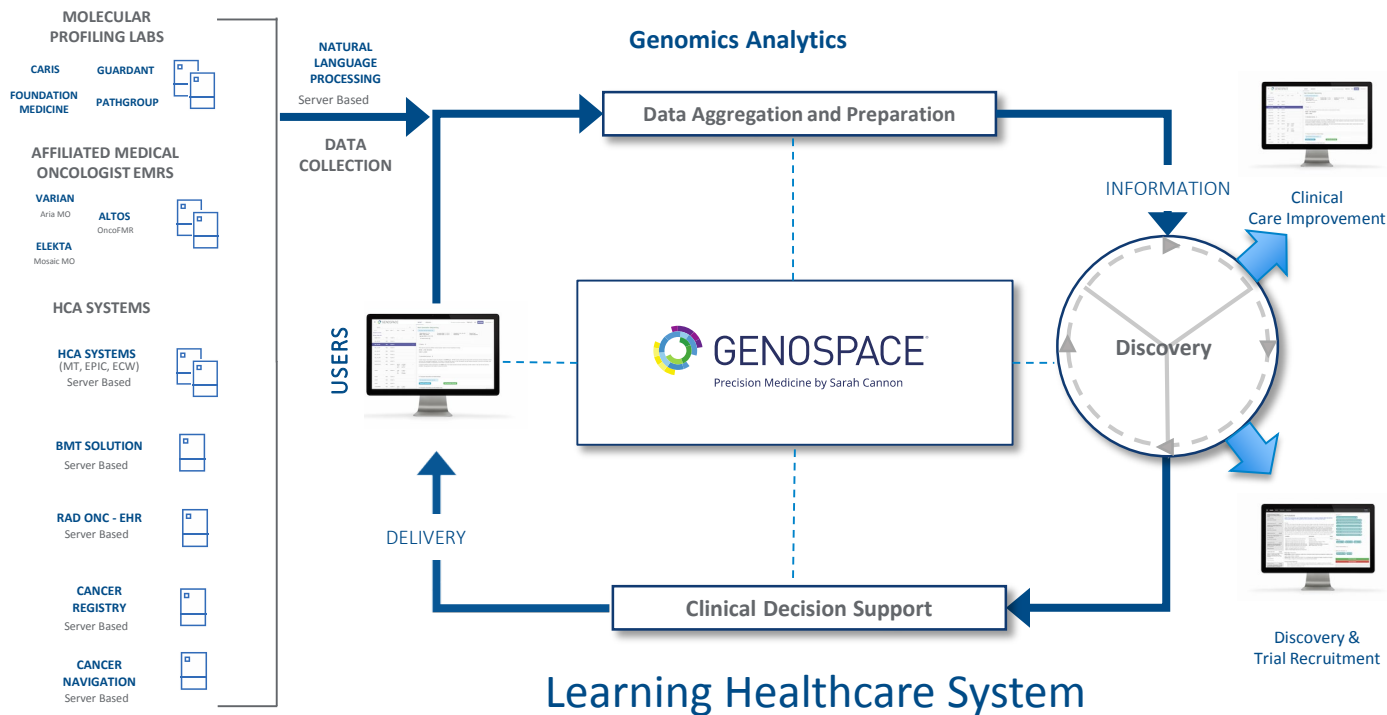
ERBB2

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THE SARAH CANNON PERSONALIZED MEDICINE VISION



GENOSPACE: ENABLING THE CONVERGENCE OF CLINICAL RESEARCH AND CLINICAL CARE



SARAH CANNON
Research Institute

[CURATION](#)
[POPULATION](#)
[CLINICAL TRIALS](#)
[PATIENTS](#)

Arielle ▾

Patients > Raymond Larry Washington

Raymond Larry Washington

MRN: X722478550

DOB: 1940-03-24

Gender: Female

Disease:
Malignant neoplasm of unspecified ovary

Next Appointment:
2018-07-23 (MD Return)

Clinic: SCRI at HealthONE

Physicians:
Gerald Falchook, Dr. Strange

Status: Active ▾

Send For Review

Clinical TrialsAttributesReportsHistory

Clinical Trial Matches

RM445
PRE-SCREENING ▾ ⋮
Matching 2 of 3 Arms
Drugs (MoA):
LY3022855 (IV),
Durvalumab (PD-L1 inhibitor) (IV),
Tremelimumab (Anti-CTLA-4 mAb) (IV)
Tumor Type: Solid tumors

1 Comment
Hide

Arielle Fisher: Patient has alteration in molecular target of Durvalumab.
07/20/2018

Add New Comment

RM443
POTENTIAL ▾ ⋮
Matching 2 of 6 Arms
Drug (MoA):
INCBO57643 (BET inhibitor) (PO)
Tumor Type: Solid tumors

1 Comment

MULTI23
SUGGESTED ▾ ⋮
Matching 1 of 6 Arms
Drugs (MoA):
Azacitidine (Hypomethylating agents) (IV),
Pembrolizumab (Anti-PD-1 mAb) (IV),
Epcadostat (ID01 inhibitor) (PO)
Tumor Type: Solid tumors

Filter Matches

☒ Hide Rejected Matches
☒ Molecular Trials Only
☐ Bookmarked Matches Only
Trial Phase
☐ I
☐ II
☐ III
Line of Therapy
☐ First Line
☐ Second Line
☐ Third +
Site
☒ All Sites



SARAH CANNON
Research Institute

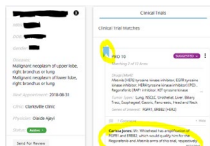
MOLECULAR ONCOLOGY SUPPORT SERVICES

Molecular Cancer Conferences

- Regularly-occurring office-specific teleconference
- >1000 MCC reviews in 12 months
- ~18% enrollment rate
- >2x increase in MP ordering
- ~23 physician-hours/month



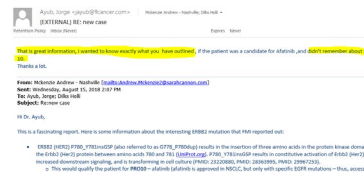
Molecular Oncology Support Services



Personalized Molecular Insights

Powered by Genospace

- Real-time Patient-level review of molecular profiles:
- Since 8/6/2018, All new molecular profiles from late-phase clinics at TO have been annotated in Genospace and abstracted into Personalized Medicine Data Warehouse



“On-Call” Molecular Insights

- Ad hoc (concierge-level) germline and somatic mutational analysis
- ~4-5 ad hoc cases/week from FCS and TO

CONCLUSIONS

- Better informed patients and physicians will lead to better resource utilization and experiences
- Abundance of information available to care providers is overwhelming and needs to be managed and streamlined
- Maximizing the utilization of technology and processes will be key to success

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THANK YOU