



NATIONAL
LUNG CANCER
ROUNDTABLE



**Addressing Lung Cancer
Biomarker Testing
Through Project ECHO in
Louisiana: Session 5
March 10, 2023**

*This project is generously supported by
Amgen Oncology*

Welcome to Session 5 of the Addressing Lung Cancer Biomarker Testing Through Project ECHO in Louisiana



Each ECHO session will be recorded and will be posted to echo.cancer.org



You will be muted with your video turned off when you join the call.
Use the buttons in the *black* menu bar to unmute your line and to turn on your video.
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Today's materials will be made available on echo.cancer.org



Please type your NAME, ROLE, and FACILITY in the chat box



This ECHO session takes place on the Zoom platform.
To review Zoom's privacy policy, please visit zoom.us/privacy



Remember: Do NOT share any personal information about any patient



Questions about Zoom? Type them in the chat box @ Leigh Davis



Agenda Preview & Introductions



**Sarah Thayer, MD, PhD, FACS;
Director**

**Ochsner LSU Health
Feist-Weiller Cancer Center**

Specialty: Surgical Oncology

Today's Agenda

01 **Agenda Preview, Poll Results & Introductions** (10 minutes)

02 **Didactic Presentation: *Navigating Insurance Complexities*** (20 minutes)

03 **Didactic Q/A** (5 minutes)

04 **Case Presentation** (5 minutes)

05 **Case Presentation Recommendations & Discussion** (10 minutes)

06 **Post-Session Poll & Wrap Up** (5 minutes)



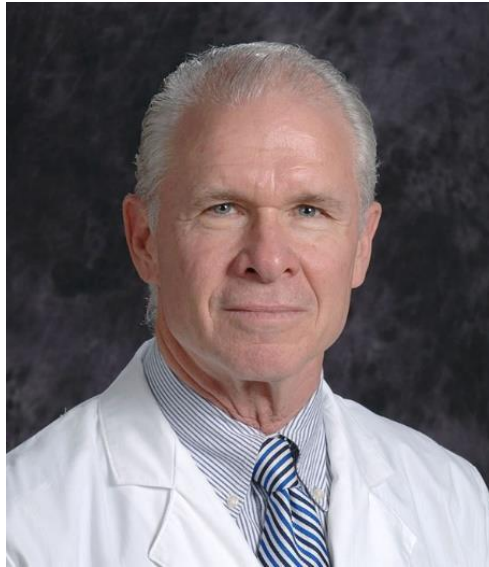
Meet our Louisiana Echo Hub Faculty Members



Robert Holladay, MD, FCCP
Professor of Clinical Internal
Medicine; Program Director,
Interventional Pulmonary
Fellowship Program Medicine
Pulmonary Critical



David Chambers, MD
Assistant Professor-of Clinical
Internal Medicine, Associate
Program Director of the
Pulmonary and Critical Care
Fellowship, Director of Lung
Cancer Screening
Medical Pulmonary



Robert White, MD, FACS
Chairman and Professor of
Surgery
John C. McDonald, MD Endowed
Chair of Surgery



Ira Surolia, MD
Assistant Professor
Feist Weiller Cancer Center

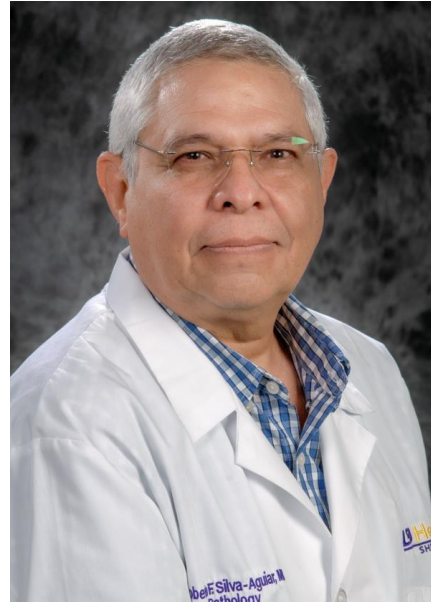


Kavitha Beedupalli, MD
Associate Professor –
Clinical Feist Weiller Cancer
Center

Meet our Louisiana Echo Hub Faculty Members



Brian G. Fuller, MD
Associate Professor
Radiation Oncology
Feist Weiller Cancer Center



Roberto Silva, MD
Associate Professor of Pathology
and Translational Pathobiology
Pathology Department



Troy Richards, MD
Clinical Assistant Professor of
Radiology Radiation Oncology
Department



Carlos Previgiano, MD
Professor of Radiology, Clinical
Specialist Thoracic /
Cardiothoracic Radiology

Project Staff

Lisa LaChance, MBA- Project Manager
Rachel Langford RN, OCN
Darren Guin, IT Analyst IV

Introductions: Meet our Louisiana Spoke Sites





Reminder: Please type your *name, role,*
and facility in the chat box



Marc Matrana, MD

Director, Precision Medicine
Endowed Professor of
Experimental Therapeutics
Associate Director of Clinical
Cancer Research, Ochsner Health



Kevan Simms

Assistant Vice President of
Precision Medicine at Ochsner
Health

Didactic Presentation:
Navigating Insurance Complexities

Ochsner Precision Medicine

ACS – Somatic Testing

3/10



Agenda

- These slides are considered confidential and not for distribution
- Ochsner & Precision Medicine Overview – Dr. Marc Matrana, Sr. Physician and Medical Director of Precision Medicine Program
- Ochsner Somatic Testing Overview – Kevan Simms, AVP – Precision Medicine



Biomarkers, Cancer & the Law



Marc R. Matrana, MD, MS, FACP
System Medical Director of Precision Medicine
Endowed Professor of Experimental Therapeutics
Ochsner Health

What is Precision Medicine?

- Uncovers the underlying molecular alterations that drive health and disease
- Uses biomarkers to tailor health care on an individual patient level
- Most rapidly involving field in medicine, having a bigger impact each week.

No field in medicine will be untouched by this revolution.



What is Precision Medicine?

Risk Assessment

- Hereditary screening for risk stratification
- Population based screening

Diagnosis

- Multi-cancer early detection (MCED)
- Rapid whole genome sequencing (WGS) in neonates and others
- Early detect of disease

Treatment

- Pharmacogenomics (PGx)
- Next-generation sequencing (NGS)
- Single gene-drug pairs

Getting the best medicine to each individual patient at the right time and the right dose based on advanced molecular and genomic technologies.



Next Generation Tumor Sequencing

Very important tool for cancer treatment

Allows for testing hundreds of gene mutations from a single tissue or blood sample.

Provides the most personalized therapy options available.

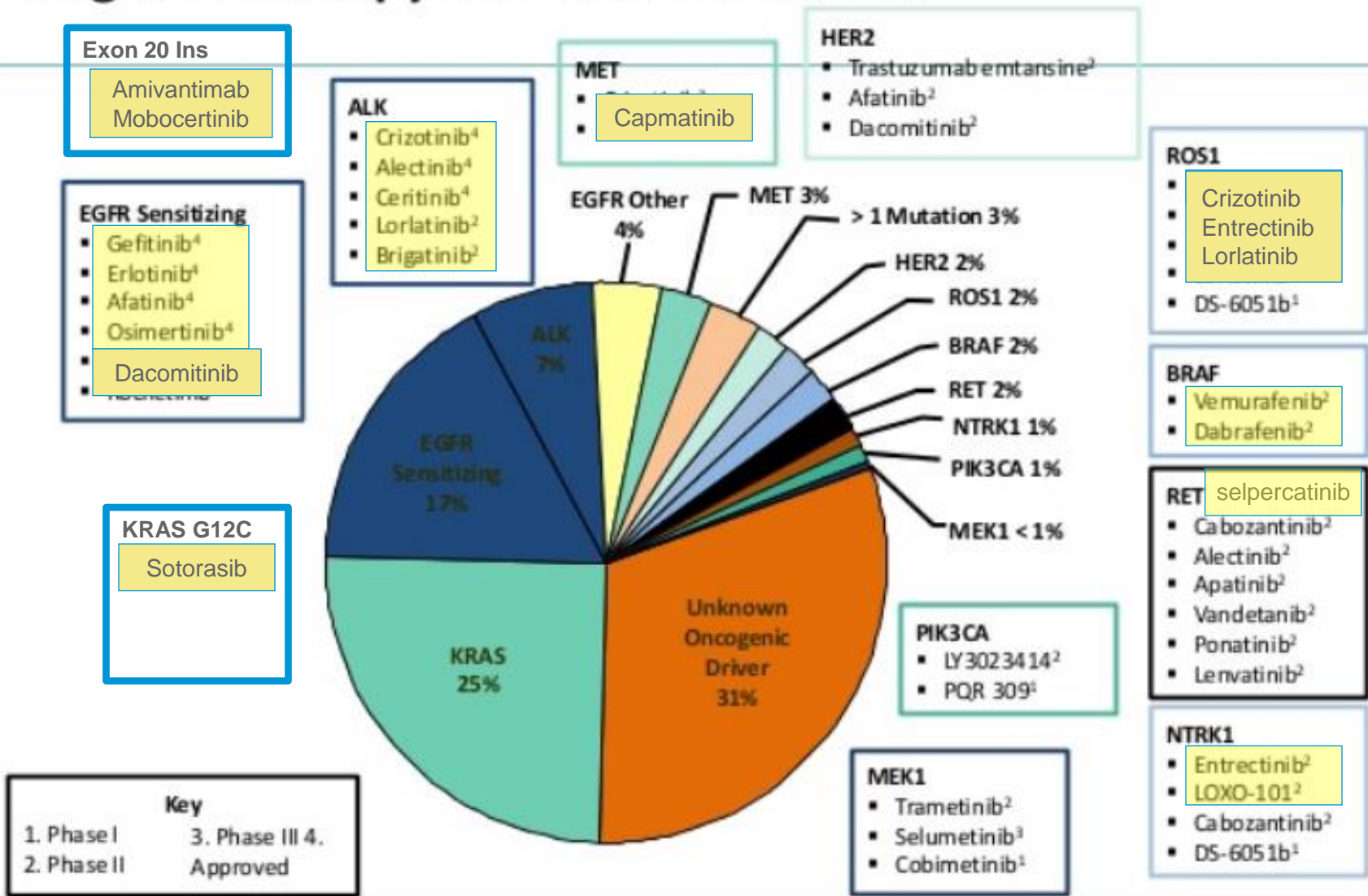
Finds actionable mutations >40% of the time

Costs are dropping drastically

Allow for stratification to clinical trials



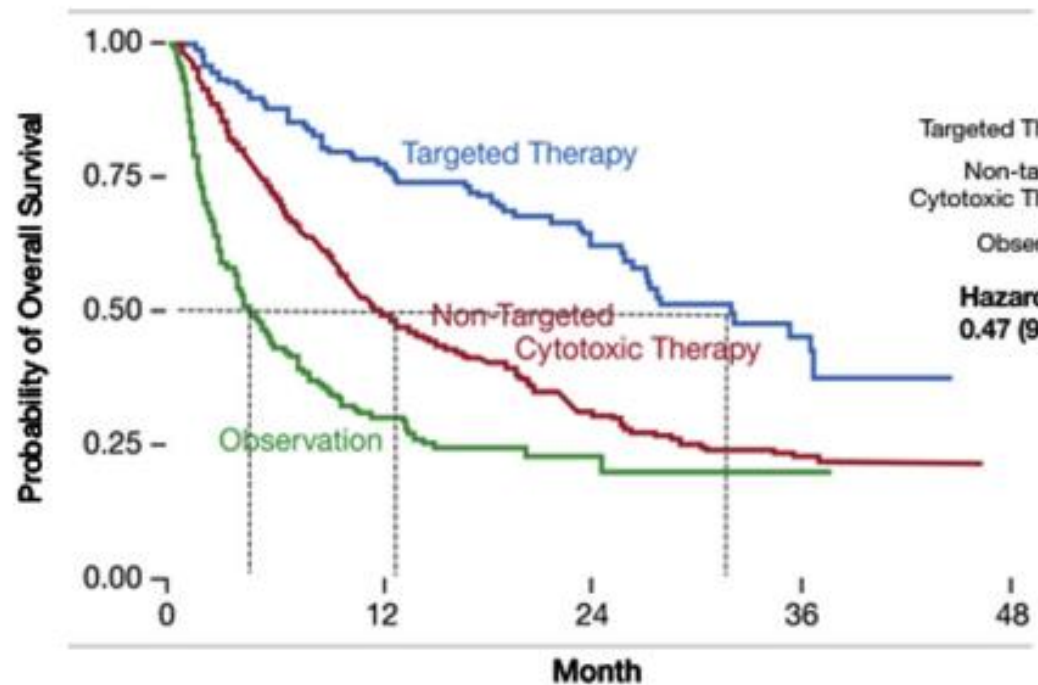
Targeted Therapy for Adenocarcinoma



Outcomes in NSCLC in Patients with Actionable Driving Mutations

Median OS
31.8
months

Median OS
12.7
months



	No. of Patients	Events	Median OS Mo (95% CI)
Targeted Therapy	131	58	31.8 (26.8-NA)
Non-targeted Cytotoxic Therapy	482	309	12.7 (11.0-15.5)
Observation	192	118	5.1 (3.9-7.3)

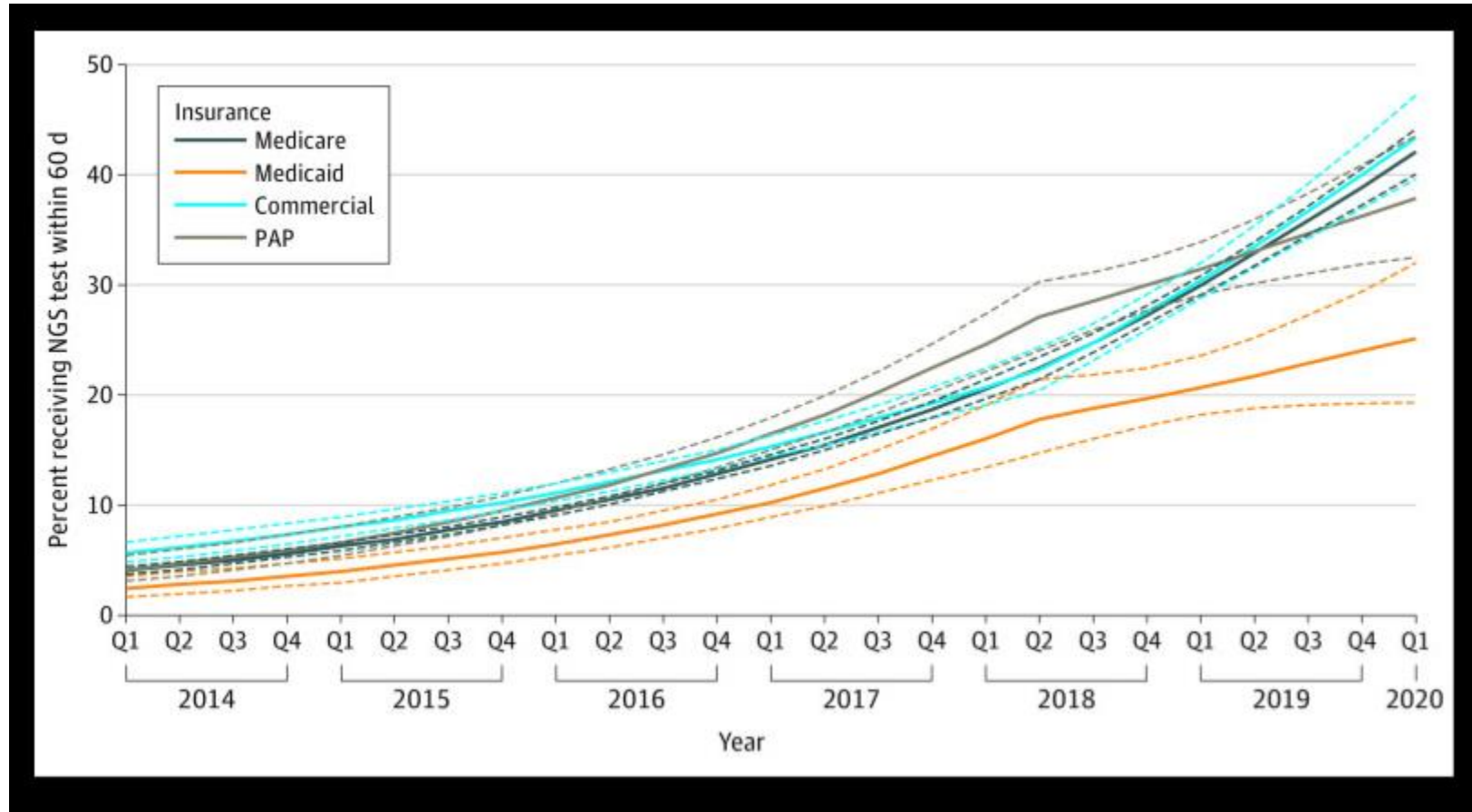
Hazard ratio for death (Targeted vs Non-targeted): 0.47 (95% CI, 0.36 to 0.63), Log rank p < 0.0001

No. at Risk	Month				
	0	12	24	36	48
Targeted Therapy	131	98	56	19	0
Non-targeted Cytotoxic Therapy	482	236	82	37	0
Observation	192	47	9	1	0

19.1 month
difference in OS
between TT vs non-
TT in NSCLC



Patients receiving NGS within 60 days of diagnosis





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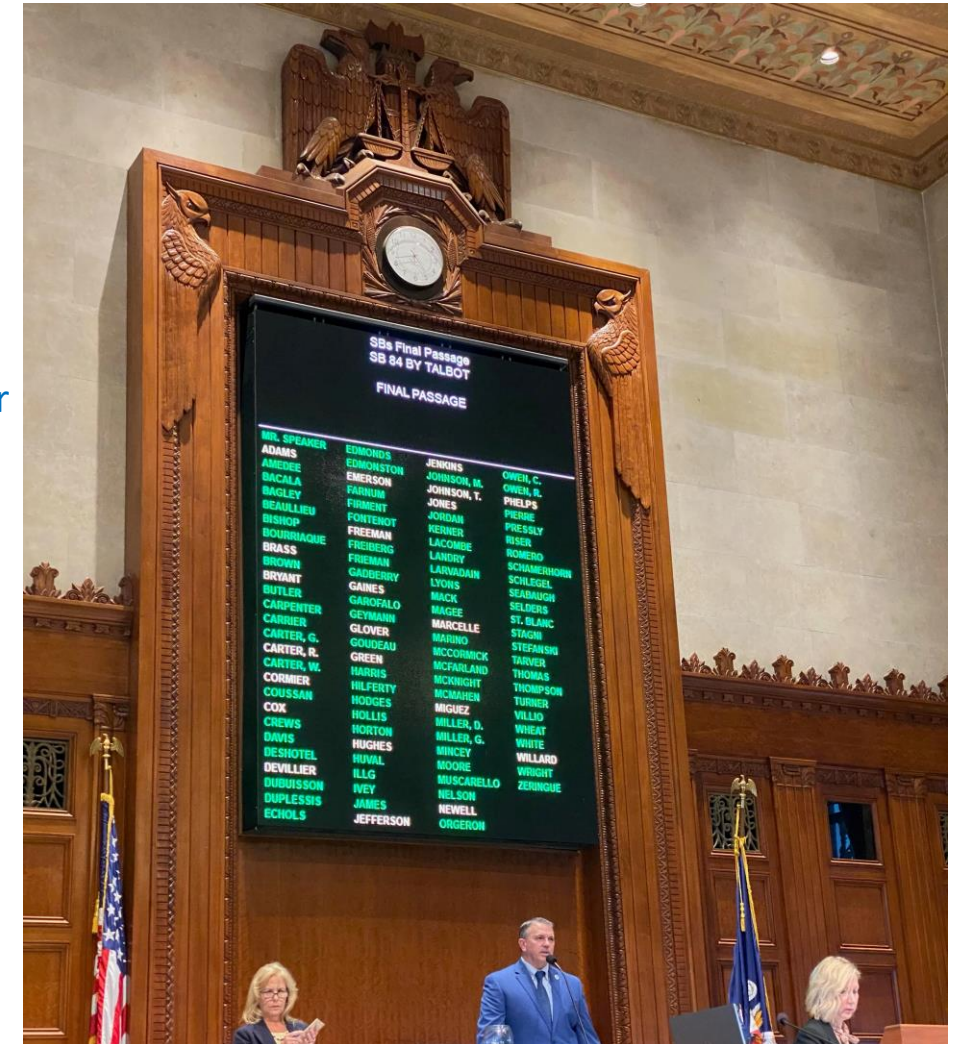
Legislative Advocacy

- SB 204 (2020) conceived and written by Dr. Matrana
 - Unanimously passed House and Senate, Signed into law
 - Mandated insurance coverage of precision medicine treatments for cancer patients
- Also in 2020, we amended LA revised statute 22:1044 mandating insurance coverage of phase 1 clinical trial patients with cancer



Legislative Advocacy

- SB 84 (2021) and SB 118 (2022) conceived and written by Dr. Matrana - now signed into law
 - Mandates insurance coverage of genetic/genomic testing in cancer patients
- SB 146 (2022) – Amendment which strengthens SB 204 (2020)
- These bills are progressive and unprecedented and serve as examples for other state legislatures and national efforts





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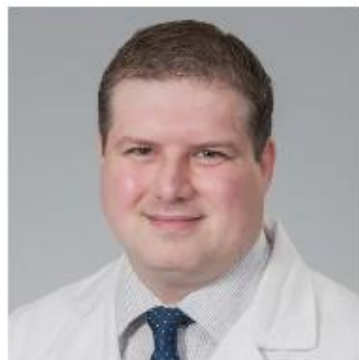
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Somatic Testing at Ochsner



Somatic Testing Overview

- In August of 2022, Ochsner established electronic orders/results integration with Tempus for Somatic testing. This utilized the Epic Genomics Module.

- Selection process of a partner lab:

- Informal ROI
- Heavy participation from Clinicians
- Tissue & Liquid required
- Established ability to HL7 required
- Lab Service Agreement in place
- No BAA/Covered Entity

Criteria

NGS Tissue

NGS Tissue TAT

NGS QNS Tissue

NGS QNS Lung

HRD

NGS Liquid

NGS Liquid TAT

NGS QNS Liquid

Knowledge base/interpretation expertise

Customer base

On-site coordinator

PDL1

Cost/Billing

PDL1 TAT

Clinical Trials Matching

PDL1 clones

HL7 Integration

Somatic Testing Overview

- Project timeline ~4-6 months
- Primary PM provided by Tempus
- Data Governance was a critical path for approval/initiation given the sensitivity of “Genetic Results”
- Ochsner resources:
 - PM
 - Data Integration – HL7
 - Genomics Analyst
 - Beacon Analyst
 - Lab Analyst
 - Clinical Educator
 - HIM, Legal, Compliance, MyChart
 - Clinicians (for validation and design)
 - Process/Workflow expert desirable



Somatic Testing Overview

- Pathology initiated ordering was a priority
- This allows the process of ordering & specimen procurement to be expedited by 2 weeks or more
- Goal is to have results available to Oncology as part of their first visit with providers
- = Targeted therapy earlier = Improved patient outcomes
- This is NOT easy
- Oncology/Pathology collaborated to create an Algorithm for reflex ordering

Organ System	PRIMARY REFLEX in SoftPath Dx (pathologist order at primary dx)	DISTANT MET REFLEX in SoftPathDx (pathologist order on targeted biopsies of mets, stage 4 disease)	SCANT SPECIMENS (consult to Yang, Chung, or Galliano for review)	ORDERABLE in EPIC for advanced disease (nurse navigator or oncologist)- Secretaries will contact you
Breast	1. ER, PR, HER-2, Ki-67 IHC (in-house) 2. H2BR: HER-2 FISH (if 2+ IHC)	1. ER, PR, HER-2, Ki-67 IHC (in-house) 2. H2BR: HER-2 FISH (if 2+ IHC) 3. TRIPLE NEGATIVE ONLY: Tempus xT NGS panel + 22C3/CPS (PD-L1), cut 5 unstained upfront (ribbon with no trim)		1. ER, PR, HER-2, Ki-67 IHC (in-house) 2. H2BR: HER-2 FISH (if 2+ IHC) 3. TRIPLE NEGATIVE ONLY: 22C3/CPS (PD-L1), cut 5 unstained upfront (ribbon with no trim)

- Tight collaboration and alignment between Pathology, Clinical Lab, Oncology, Tempus. Workflow can be complicated and require multiple rounds of review and adjustment.
- “Outsourced Pathology” has been a barrier we have not overcome to this point. Oncologists initiate in these settings.

What it looks like - Order Entry

The screenshot displays the Epic EMR interface for a patient named Tempus, Two. The main window shows the 'Orders' tab with a 'Tumor NGS Tissue' order entry form. The form includes the following fields and options:

- Status:** Normal, Standing, Future (selected)
- Expected Date:** 2/14/2023 (Today, Tomorrow, 1 Week, 2 Weeks, 1 Month, 3 Months, 6 Months)
- Expires:** 4/14/2024 (1 Month, 2 Months, 3 Months, 4 Months, 6 Months, 1 Year, 18 Months)
- Priority:** Routine
- Class:** Lab Collect (Lab Collect, Clinic Collect, Home Health (Amb))
- Specimen Source:** Tumor
- Resulting Agency:** TEMPUS LAB
- Tumor/Normal?:** Tumor and Normal, Tumor Only (selected)
- Tumor specimen:** Tissue, Hematologic
- Additional testing requested?:** HRD OPYD Tumor Origin
- Is tumor specimen collected?:** Yes, No
- Pathology lab:** (empty field)
- Disease status:** Metastatic Refractory Relapse Other
- Tumor specimen collected during inpatient stay within the past 14 days:** Yes, No
- Tempus promotional code?:** (empty field)
- Release to patient:** Immediate, Delay 7, Delay
- Comments:** Ordering department: OMC Hem Onc3 1515 RIVER ROAD JEFFERSON LA 70121-2429 504-842-3910 I certify that th...
- Add-on:** No add-on to be used for
- Additional Order Details:** (empty field)

A large diagonal watermark reading "NOT FOR DISTRIBUTION" is overlaid on the screenshot. The interface also shows a sidebar with patient information, including MRN: 10449459, and a bottom status bar with "PEND" and "SIGN ORDERS (2)".

What it looks like - InBasket

The screenshot displays the Epic InBasket interface. At the top, there is a navigation bar with various tools like Schedule, In Basket, Patient Station, and On-Call Finder. Below this, the 'In Basket' section shows a list of messages on the left and a detailed view of a message on the right. The detailed view includes a patient profile for 'Two Tempus', a list of test results, and a list of somatic mutations.

Message List:

Status	Collection Dt	Patient	Age	Test
Pend		Tempus, Six	31...	TEMPUS XT NGS REPORT
Read		Tempus, Five	21...	TEMPUS XT NGS REPORT
Read		Tempus, Ten	89...	TEMPUS XT NGS REPORT
Read		Tempus, Nine	52...	TEMPUS XT NGS REPORT
Read		Tempus, Nine	52...	TEMPUS XT NGS REPORT
Read		Tempus, Seven	34...	TEMPUS XT NGS REPORT
Read		Tempus, Two	68...	TEMPUS XT NGS REPORT
Read		Tempus, One	33...	TEMPUS XT NGS REPORT

Patient Profile: Two Tempus
Female, 68 y.o., 6/11/1954, Italian
MRN: 10449459
Needs Interpreter: Needs Interpreter: Italian
Physician Family Medicine, MD
PCP - General
Allergies: No Known Allergies
Digital Medicine: None
Medication Status: None
Health Maintenance: Due
Primary Ins: HUMANA MANAGED MEDICARE
Pt Comm Pref: Email, Patient Portal, Mail, Phone
Next Appt this Specialty: None
Last Encounter with you: 8/12/2022
Last Enc in this Dept: None

Somatic Mutations:

Gene	Variant	AF
ARID1A	p.S334* - c.1001C>A Stop gain - LOF	13.2 %
CCNE1	CCNE1 - Copy number gain	-
CDKN2A	p.E88fs - c.262del Frameshift - LOF	30.1 %
KMT2D	p.Q2634* - c.7900C>T Stop gain - LOF	17.1 %
LRP1B	LRP1B - Copy number loss	-
PHGDH	PHGDH - Copy number gain	-
PIK3CA	p.E542K - c.1624G>A Missense variant (exon 9) - GOF	1.1 %
RNF43	p.M17 - c.3G>C Start loss - LOF	9.4 %
TP53	p.E171fs - c.S11del Frameshift - LOF	33.8 %
ACTG1	p.N2965 - c.887A>G Missense variant	10.2 %
BRIP1	p.E910Q - c.2728G>C Missense variant	8.1 %
CARD11	p.A10475 - c.3130G>T Missense variant	18.8 %
CBL	p.R299H - c.877A>G Missense variant	21.8 %
CEBPA	p.F31L - c.91A>G Missense variant	6.3 %
CFTR	p.S5Y - c.613G>A Missense variant	6.6 %
CTSL	p.R100D - c.1797G>C Missense variant	12.9 %
DNMT3A	p.R98E - c.11425A>G Missense variant	22.4 %
EPHA2	p.Q56H - c.168G>C Missense variant	7.4 %
ERCC2	p.E449V - c.1346A>T Missense variant	20.2 %
FGF23	p.G230C - c.688G>T Missense variant	17.3 %
FOXO3	p.K270N - c.810G>C Missense variant	13.7 %
GALNT12	p.E412Q - c.1234G>C Missense variant	9.6 %
KMT2A	p.S1952F - c.5855C>T Missense variant	5.3 %
KMT2D	p.R5179L - c.15536G>T Missense variant	15.2 %
NRG1	p.Q222K - c.664C>A Missense variant	5.2 %
PML	p.R56C - c.166C>T Missense variant	7.3 %
POLD1	p.G113V - c.338G>T Missense variant	7.7 %

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What it looks like – Chart Review

The screenshot displays the Epic EMR interface for a patient named Tempus, Two. The top navigation bar includes various tools and user information. The main content area is divided into several sections:

- Precision Medicine:** Includes 'Genomic Indicators' (with a toggle set to 'On'), 'Result Documents', 'Resulted Orders', and 'Documents'.
- Genomic Results:** Shows 'Somatic Genomic Results' for 'Malignant neoplasm of pancreas, unspecified location of malignancy'. It lists two reports:
 - Tempus xT NGS Report (8/18/22):** Detected - Pathogenic (2). Variants include APC (Copy number loss) and FOXA1 (Inframe deletion - GOF).
 - Prostate cancer (8/17/22):** Detected - Pathogenic (9). Variants include ARID1A (Stop gain - LOF), CCNE1 (Copy number gain), CDKN2A (Frameshift - LOF), KMT2D (Stop gain - LOF), LRP1B (Copy number loss), PHGDH (Copy number gain), PIK3CA (Missense variant), RNF43 (Start loss - LOF), and TP53 (Frameshift - LOF).
- Genomic Components:** Shows a table of genomic components with their respective VAF percentages.

A large blue watermark reading "NOT FOR DISTRIBUTION" is overlaid across the bottom right portion of the screenshot.

What is looks Tempus PDF

Date of Birth
02/03/1952

Sex
Male

Physician
[REDACTED]

TEMPUS | xT
648 gene panel

Tumor specimen:
Lung

Tumor Percentage: 40%
(post microdissection)

Normal specimen:
Blood
Collected 7/27/2022
Received 7/29/2022

GENOM

Somatic - Potentially Actionable

PIK3CA p.E542K Missense variant (exon 9) - GOF

Variant Allele Fraction

4.1%

Somatic - Biologically Relevant

TP53 p.E171fs Frameshift - LOF

33.8%

CDKN2A p.E88fs Frameshift - LOF

30.1%

KMT2D p.Q2634* Stop gain - LOF

17.7%

ARID1A p.S334* Stop gain - LOF

13.2%

RNF43 p.M1? Start loss - LOF

9.4%

CCNE1 Copy number gain

LRP1B Copy number loss

PHGDH Copy number gain

Germline - Pathogenic / Likely Pathogenic

No germline pathogenic variants were found in the limited set of genes on which we report.

Pertinent Negatives

No pathogenic single nucleotide variants, indels, or copy number changes found in:

EGFR **KRAS** **BRAF** **ALK** **ROS1** **RET** **MET** **ERBB2 (HER2)**

IMMUNOTHERAPY MARKERS

Tumor Mutational Burden

14.7 m/MB 93rd percentile

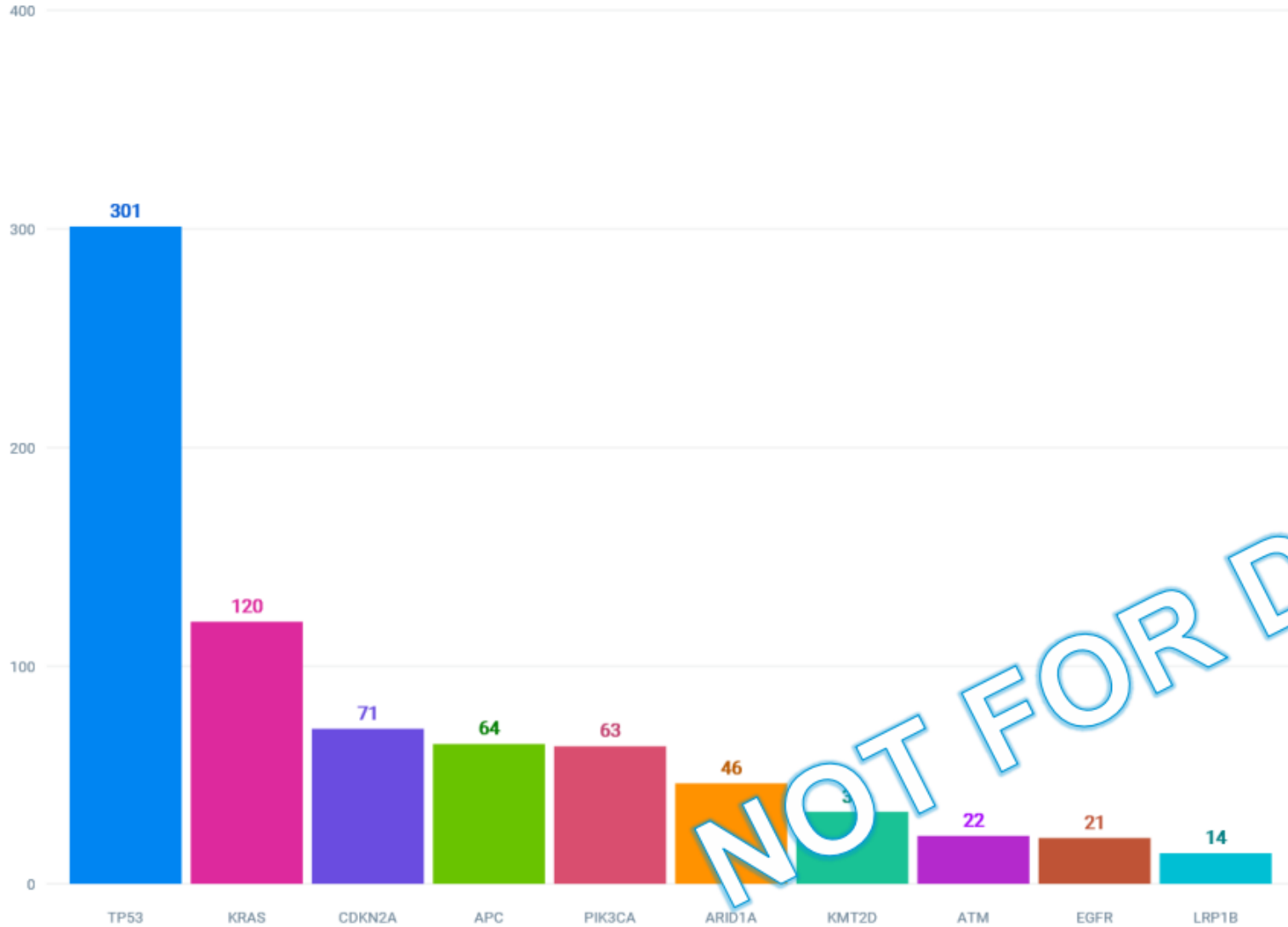
Microsatellite Instability Status

Stable Equivocal High

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Number of Patients by Genetic Variant Results

Last 18 months



Population
Base: All Patients

Slices
10 Slices by Genetic Variant Results

Measures
Number of Patients

Dates
Start Date: Aug 15, 2021
End Date: Feb 14, 2023
Slice By: None

Visual Options
Bar Color: []
Y-Axis: Automatic

Slice by Genetic Variant Results
Grab Top 10

TP53
 KRAS
 CDKN2A
 APC
 PIK3CA
 ARID1A
 KMT2D
 ATM
 EGFR
 LRP1B

Clinical Significance: [] Any

Pathogenic Assessment: [] Any

Genomic Source: [] Any

Is Amplification: []

+ Compare [] Hyperspace - NOMC HEREDITARY A
[] CLINIC BENSON - prd - \\\Remote

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Patient Financial Assistance



Tempus submits to insurance and applies Financial Assistance Program.

The majority of patients pay <\$100 OOP for testing.

"TEMPUS" PATIENT FINANCIAL ASSISTANCE FORM

FOR IMMEDIATE APPLICATION RESULTS:
Online: access.tempus.com or Phone: 800.739.4137

FORM RESPONSE TIME: 5-7 BUSINESS DAYS
Email: biting@tempus.com or Fax: 708.575.1789

PLEASE COMPLETE ALL FIELDS

PATIENT INFORMATION

Last Name	First Name	Date of Birth (mm/dd/yyyy)	Sex
Street Address, Unit		City	State Zip
Do you have health insurance Yes No	Primary Method of Contact Email Address	Secondary Method of Contact Phone Number (w/ area code)	
Estimated Gross Annual Household Income	Number of Family Members in Household (supported by the gross annual household income, including patient)		

ORDERING PHYSICIAN & INSTITUTION

Institution (name of hospital or practice where you are being treated)

Ordering Physician

EXTENUATING CIRCUMSTANCES

<input type="checkbox"/> Alimony and/or child support expenses > \$1,000 per month	<input type="checkbox"/> Qualified for charity care with my physician	<input type="checkbox"/> Permanent loss of income due to diagnosis or treatment
<input type="checkbox"/> Non-local travel for treatment (e.g. hotel, airfare) > \$1,000	<input type="checkbox"/> Currently involved in short or long term disability with your employer	<input type="checkbox"/> None
<input type="checkbox"/> Supporting family member(s) outside of household	<input type="checkbox"/> Credit card debt > \$5,000	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Medical expense > \$1,000		

Please share any background you would like our financial assistance team to take into consideration when reviewing your application:

CONSENT TO APPLICATION

Patient
By signing and submitting this application, I am certifying that all information provided is truthful and complete and I understand that financial assistance may be withdrawn if the information is inaccurate. I also consent to Tempus' use of the information to assess and/or verify eligibility for assistance.

Patient Representative
As a Personal Representative of the patient, my signature certifies that (1) I have the right to do so on the patient's behalf, (2) if possible, I've explained to the patient the nature and purpose of this application, (3) the information set forth above is, to the best of my knowledge, truthful and complete, and (4) I consent to Tempus' use of the information to assess and/or verify eligibility for assistance.

Full Name: _____ Phone: _____

Relationship to Patient: _____ Email: _____

Signature _____ Date _____

By signing, you are indicating that all knowledge is correct to the best of your ability. If the provided information proves to be inaccurate, Tempus reserves the right to revoke financial assistance.

TFPA07219 Tempus Labs, Inc • 600 West Chicago Avenue, Ste 510 • Chicago, IL • 60654 • Phone: 800.739.4137 • Fax: 708.575.1789 • Tempus.com

- All patients should apply
- Real time decision online or by phone
- 3 Ways to apply:
 - access.tempus.com
 - By calling 1-800-739-4137
 - Paper Form submitted in kit or faxing to 1-(708)-575-1789
- Cash Pay:
- Domestic \$649
- International \$2500

Patient Financial Assistance Program

Tempus is committed to help provide access to our tests for patients in financial need:

- All patients treated in the U.S. are eligible
- Most applicants who qualify pay no more than \$100

How to apply:

- access.tempus.com
- 800-739-4137
- Financial Assistance Form

TEMPUS PATIENT FINANCIAL ASSISTANCE FORM

FOR IMMEDIATE APPLICATION RESULTS:
Online: access.tempus.com or Phone: 800.739.4137

FORM RESPONSE TIME: 5-7 BUSINESS DAYS
Email: billing@tempus.com or Fax: 708.575.1789

PLEASE COMPLETE ALL FIELDS

PATIENT INFORMATION

Last Name		First Name		Date of Birth (mm/dd/yyyy)		Sex	
Street Address, Unit				City		State	Zip
Do you have health insurance Yes No		Primary Method of Contact Email Address: _____			Secondary Method of Contact Phone Number (w/ area code): _____		
Estimated Gross Annual Household Income				Number of Family Members in Household (supported by the gross annual household income, including patient)			

ORDERING PHYSICIAN & INSTITUTION

Institution (name of hospital or practice where you are being treated)

Ordering Physician

EXTENUATING CIRCUMSTANCES

Extenuating Circumstances

<input type="checkbox"/> Alimony and/or child support expenses > \$1,000 per month	<input type="checkbox"/> Currently enrolled in short or long term disability with your employer	<input type="checkbox"/> Qualified for charity care with my physician	<input type="checkbox"/> Permanent loss of income due to diagnosis or treatment
<input type="checkbox"/> Non-local travel for treatment (e.g. hotel, airfare) > \$1,000	<input type="checkbox"/> Credit card debt > \$5,000	<input type="checkbox"/> Medical expense > \$5,000	<input type="checkbox"/> None
<input type="checkbox"/> Supporting family member(s) outside of household	<input type="checkbox"/> Other: _____		

Please share any background you would like our financial assistance team to take into consideration when reviewing your application:

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By signing and submitting this application, I am certifying that all information provided is truthful and complete and I understand that financial assistance may be withdrawn if the information is inaccurate. I also consent to Tempus' use of the information to assess and/or verify eligibility for assistance.

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Signature _____ Date _____

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Ochsner

ALTON OCHSNER M.D.



Didactic Q & A



Case Presentation: Ochsner LSU Health Feist-Weiller Cancer Center



**Kavitha
Beedupalli**

Associate
Professor – Clinical

Case Summary:

- 60 yo African American man with around 50 Pack year history of smoking
- Underwent scans for evaluation of back pain
- Ct scan showed a Large left perihilar mass- 9.8x 4.8cms with extensive mediastinal, bilateral hilar, supraclavicular adenopathy, Right first rib, large Rt scapular lesion , T9 and T11 vertebral lesions
- Imaging with pathological fracture with cord compression at T9 vertebral level requiring surgical decompression
- Pathology showed metastatic Adenocarcinoma of pulmonary origin
- The tumor cells show diffuse positivity for Cytokeratin 7, Keratin AE1/3, patchy nuclear positivity for TTF1 and Napsin

Section 3: Patient-Level Case Presentation

DEMOGRAPHIC INFORMATION			
1. Age	2. Gender (Choose One)	3. Race/Ethnicity (Choose All that Apply)	
60	Female <input type="checkbox"/> Male <input checked="" type="checkbox"/> Non-Binary/Third gender <input type="checkbox"/> Transgender female <input type="checkbox"/> Transgender male <input type="checkbox"/>	American Indian/Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black/African American <input checked="" type="checkbox"/>	Hispanic/Latino <input type="checkbox"/> White <input type="checkbox"/> More than One Race <input type="checkbox"/> Other <input type="checkbox"/>
NON-SMALL CELL LUNG CANCER (NSCLC) HISTOLOGY & STAGE			
4. Diagnosis	5. Histology	6. Stage	
Initial Diagnosis <input checked="" type="checkbox"/> Recurred and or Progressed <input type="checkbox"/>	Adenocarcinoma <input checked="" type="checkbox"/> Squamous Cell <input type="checkbox"/> Large Cell <input type="checkbox"/>	Stage IV -T4 N3M1C	
BIOMARKER TESTING			
7. Has biomarker testing been ordered for this patient (or will it be ordered)?		8. If biomarker testing was not ordered, please elaborate on the factors that precluded it:	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Will be ordered <input type="checkbox"/>		Click or tap here to enter text.	
The next section is ONLY for those patients who HAVE received or WILL receive biomarker testing			
9. Which technique was used (or will be used) to obtain specimen for pathologic diagnosis? (Choose One)			
Bronchoscopic biopsy <input type="checkbox"/> Endobronchial ultrasound-guided transbronchial lymph node aspiration (EBUS-TBNA) <input type="checkbox"/> Image-guided percutaneous biopsy <input type="checkbox"/> Liquid biopsy <input type="checkbox"/>		Mediastinoscopy <input type="checkbox"/> Surgical specimen <input checked="" type="checkbox"/> Thoracentesis/pericardiocentesis <input type="checkbox"/> Unsure <input type="checkbox"/>	
10. Which platform was/will be used for lung biomarker testing? (Choose One)		11. If single-gene test or short-cluster panel, please identify which genes were tested:	
Single-Gene Test <input type="checkbox"/> Short-Cluster Panel <input type="checkbox"/> Multi-Gene Panel (next generation sequencing (NGS)) <input checked="" type="checkbox"/>		ALK <input type="checkbox"/> BRAF <input type="checkbox"/> EGFR <input type="checkbox"/>	HER2 <input type="checkbox"/> KRAS <input type="checkbox"/> NTRK <input type="checkbox"/> MET <input type="checkbox"/>
PD-L1 <input type="checkbox"/> ROS1 <input type="checkbox"/> RET <input type="checkbox"/>			
ADDITIONAL INFORMATION			
12. Please include any other information you would like to share with the group: Click or tap here to enter text.			

Additional Challenges/Barriers for the Patient:
Patient education, delay in initiation of treatment, transportation issues

Describe any recent changes (less than 6 months) made to this system or workflow, including when they were made and their impact:
Involving nurse navigator/social worker early on has helped with this

What data do you have to augment your observations:

Case Presentation Discussion

Discussion/Feedback from our Faculty





Wrap-Up & Post-Session Poll Questions

A Few Reminders



Final ECHO Session: May 2023 – Look for invite coming soon!



Next Didactic Presenter: TBD
Topic: TBD



Materials and Resources will be made available soon. All resources will be available on the [ACS ECHO Website](#)



Spokes: Interested in presenting a Case in May? Let us know.
Faculty: All future case presentations will be shared with you at least 24-hours in advance



Additional Feedback on Today's Session? Tell us in the Post Session Feedback Forum



(URL in chat box)

Questions: Contact Leigh Davis

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THANK YOU!

SEE YOU AT SESSION 6!