Comprehensive Molecular Profiling in Patients with Advanced Biliary Tract Malignancy in a Latinx rich cohort

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Statisticians: Joel Michalek PhD, Qianqian Liu MS

Mays Cancer Center, UT Health San Antonio

Disclosure of Conflicts of Interest

Vidit Kapoor, MD, has the following financial relationship to disclose:

• Stock ownership: Pfizer

Project Collaborators

- Sylvia Keiser, DO
- Sukeshi Patel Arora, MD

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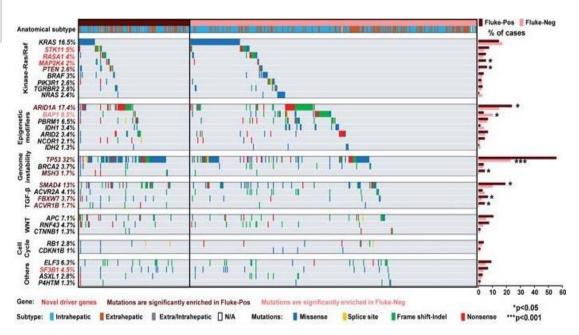
SEER stage	5-year relative survival rate
Localized	24%
Regional	9%
Distant	2%
All SEER stages combined	9%

SEER data 2021

Poor survival

Background

Genetically diverse



Jusakul A, Cutcutache I et al. Cancer Discov. 2017

Objectives and Methods

To analyze comprehensive molecular profiling

Advanced Biliary Tract Cancers

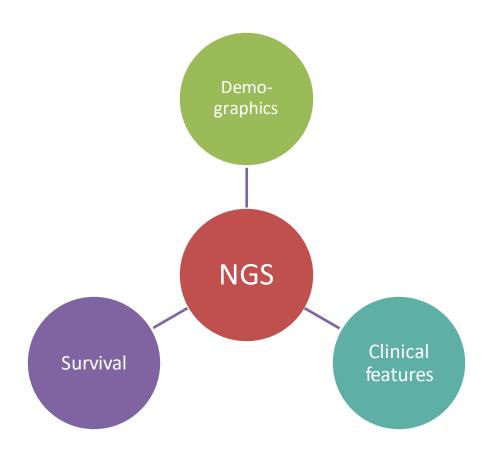
Latinx-rich Cohort

Inclusion
Criteria

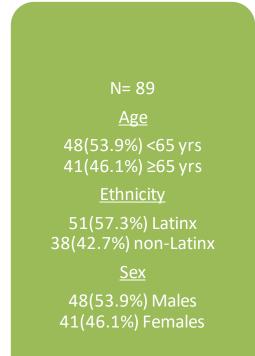
Age >18 years

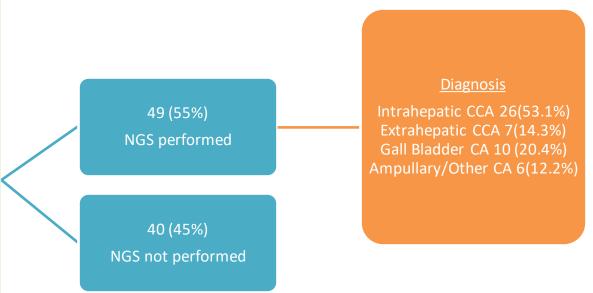
Unresectable
BTC

Jan 2018 Dec 2021

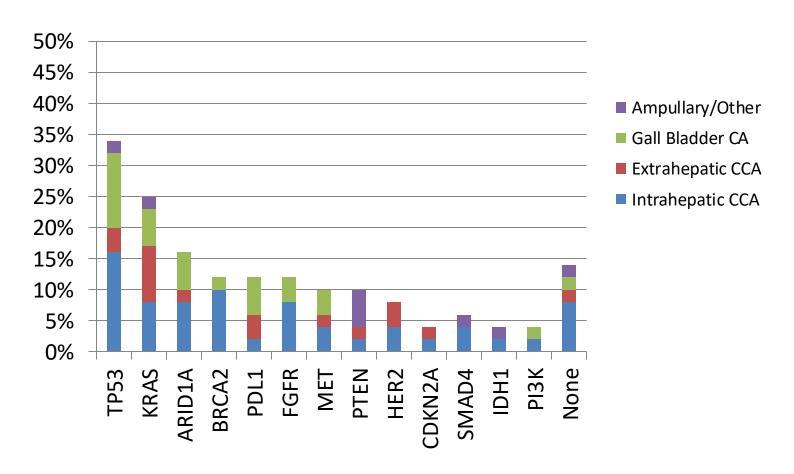


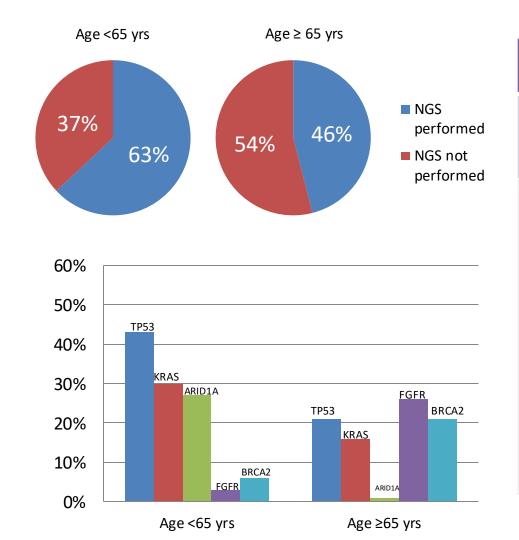
Results

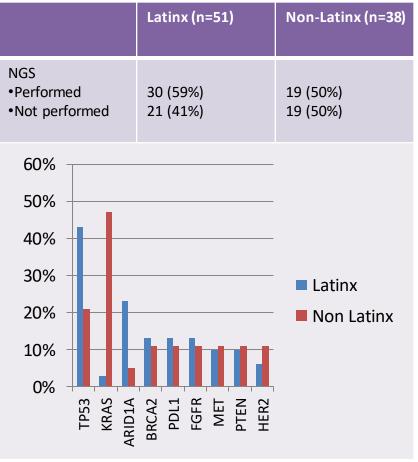




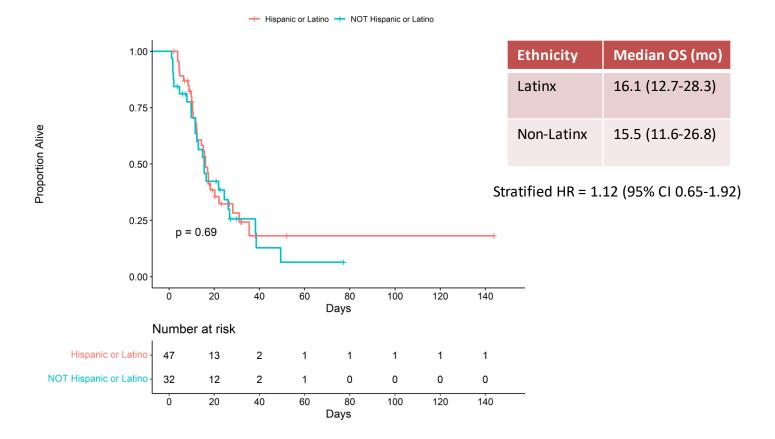
Pathogenic Mutations



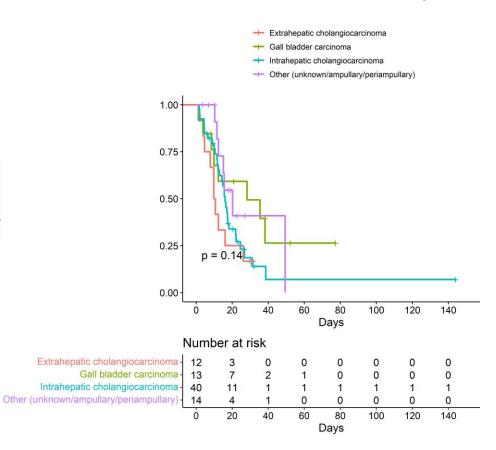




Overall Survival by Ethnicity



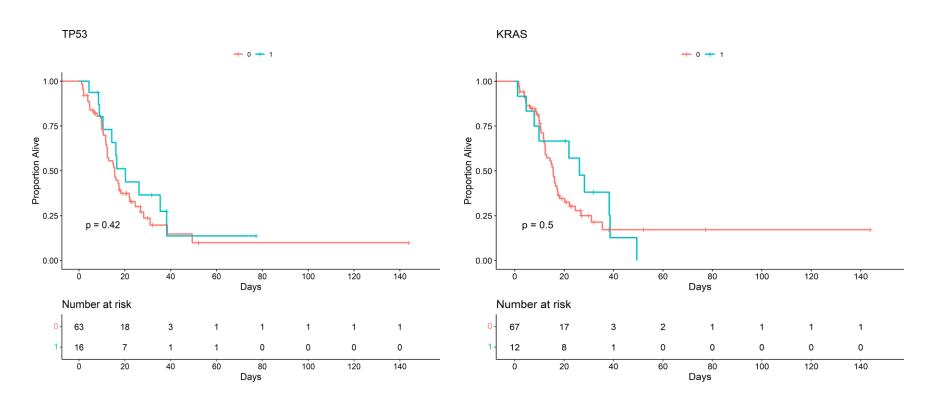
Overall Survival by Disease Site

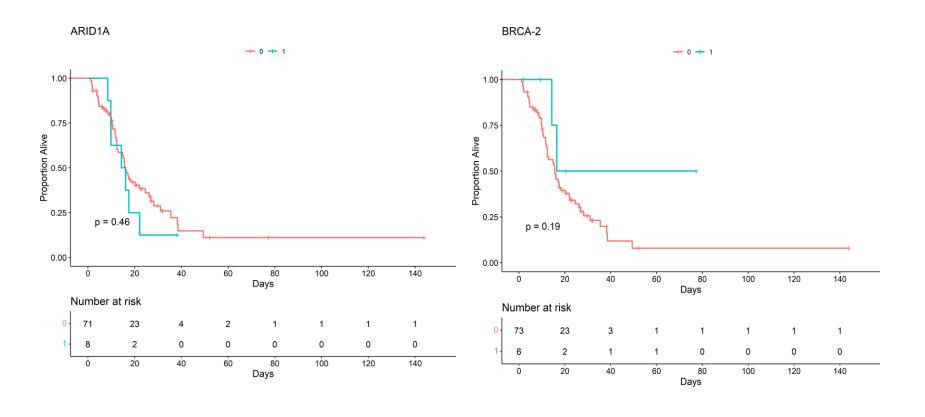


Proportion Alive

Disease site	Median OS (mo)
Extrahepatic CC	10.21
Gall Bladder Ca	28.2
Intrahepatic CC	16.1
Other	20.2

Overall Survival by Mutations





Conclusions

- 55% patients with advanced BTC had NGS performed
 - This should be 100%
- Most common mutations were TP53, KRAS and ARID1A
 - Latinx had more TP53 mutations, non Latinx had more KRAS mutations
- 46% of elderly had NGS performed
 - Most common mutations were FGFR and BRCA2
- Latinx and Non-Latinx had similar survival rates
- Survival rate was not different based on type of mutation
- Future directions: Association of mutations with
 - Survival
 - Response to therapy

Thank you!