Immunotherapy in Advanced NSCLC: Initial Therapy and How to Overcome Resistance

(EGFR, ALK, ROS & RET Wild Type)

George R. Simon, MD, FACP, FCCP
Vice President, Oncology
Ohio Health Network
Columbus Ohio





First-line NSCLC Immunotherapy Biomarker Based treatment Selection

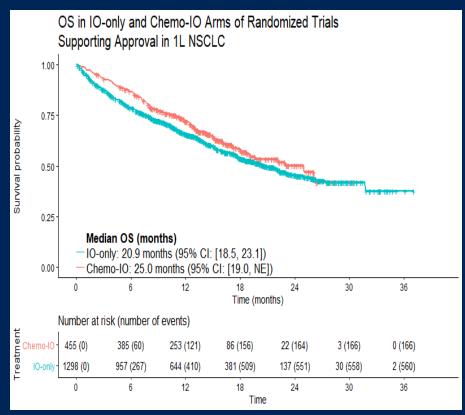
Phase III IO trials in Advanced-NSCLC

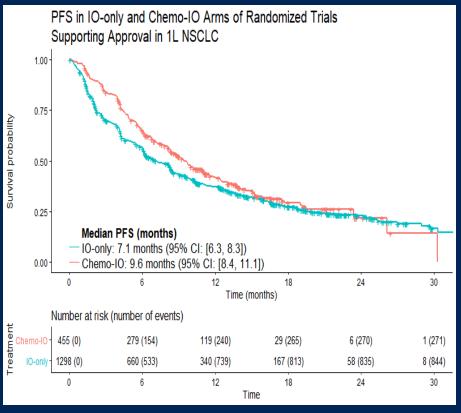
	Pathology	PDL-1	Arm I (OS)	Arm II (OS)	HR
KEYNOTE-024	squamous (18%) and	≥50%	Pembro	Chemotherapy	
	nonsquamous (82%)		30 months	14.2 months	0.63
KEYNOTE-042	squamous (38%) and	≥1%	Pembro	Chemo	
	nonsquamous (62%)		16.7 months	12.1 months	0.81
KEYNOTE-189	nonsquamous	Any level	Pembro/Pem/Plat	Plat/Pem	
			22 months	10.7 month	0.56
KEYNOTE-407	squamous	Any level	Pembro/Carbo/Tax	Carbo/Taxane	
			15.9 months	11.3 months	0.64
CHECKMATE-227	squamous (28%) and nonsquamous (72%)	Any level ≥1% <1%	lpi/Nivo	Chemotherapy	
	,		17.1 months	14.9 months	0.79
			17.2 months	12.2 months	0.62
CHECKMATE 9LA	squamous and nonsquamous	Any level	Ipi/Nivo/Chemo	Plat/Pem or Taxane	
	•		15.6 months	10.9 months	0.66
IMpower110	squamous (25%) and nonsquamous (75%)	≥50%	Atezo	Plat/Pem or Gem	
			20.2 months	13.1 months	0.59
IMpower130	non-squamous	Any level	Atezo/Carbo/NbT	Carbo/NbT	
	non-squamous	Ally level	18.6 months	13.9 months	0.79
IMpower150	non-squamous	Any level	Atezo/Bev/Carbo/Pac	: Bev/Carbo/Pac	
			19.8 months	14.9 months	0.76



FDA

Exploratory OS/PFS: Chemo-IO vs IO in NSCLC PD-L1 ≥50%





Abbreviations: Chemo-IO= platinum-based doublet chemotherapy plus immunotherapy; Cl=confidence interval; HR=hazard ratio; IO=immunotherapy; NE=not estimable; NSCLC=non-small-cell lung cancer; OS=overall survival; PD-L1=programmed death ligand-1.

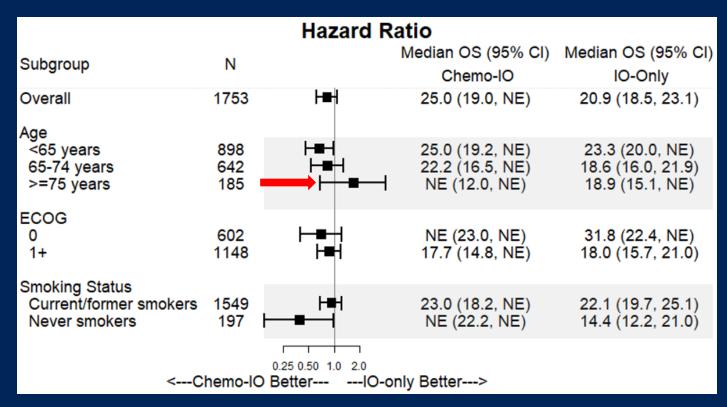








OS in NSCLC PD-L1 ≥50% in selected subgroups



Abbreviations: Chemo-IO= platinum-based doublet chemotherapy plus immunotherapy; Cl=confidence interval; ECOG=Eastern Cooperative Oncology Group Performance Status; IO=immunotherapy; NE=not estimable; NSCLC=non-small-cell lung cancer; OS=overall survival; PD-L1=programmed death ligand-1.

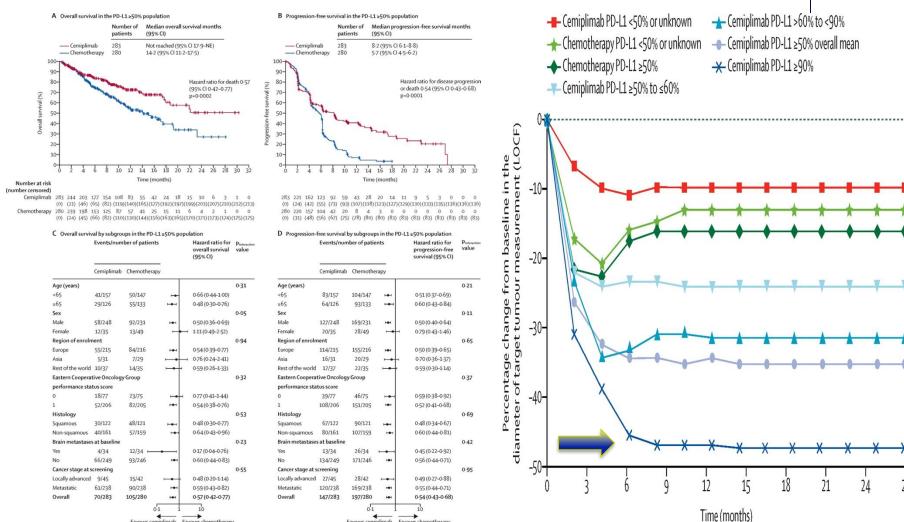






EMPOWER-Lung1 Cemiplimab Vs. Chemo: PD-L1 > 50%



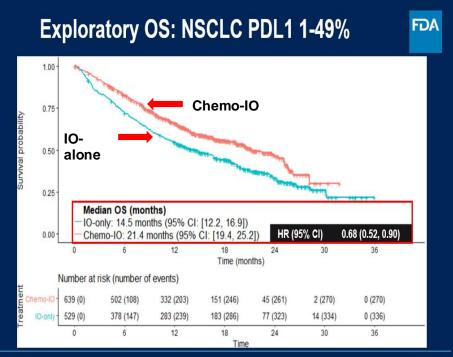


Favours cemiplimab Favours chemotherapy

Favours cemiplimab Favours chemotherapy

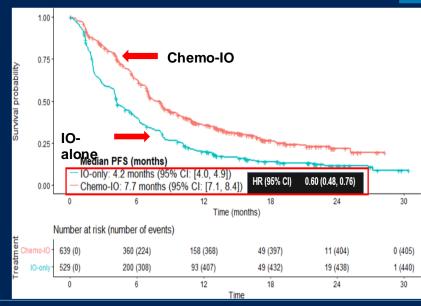


FDA Pooled Analyses PD-L1 1 – 49% Subset









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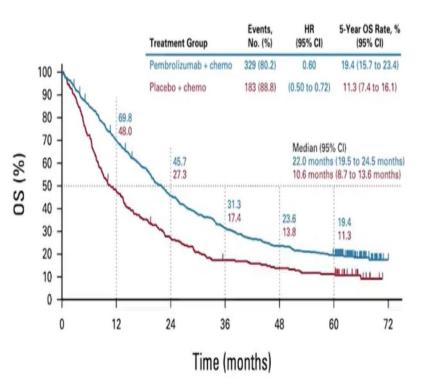


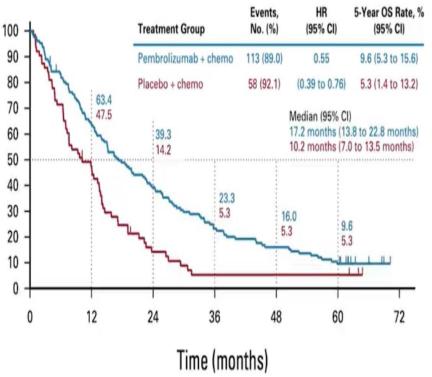
KN-189 5-year update (non-squamous)





PD-L1<1%

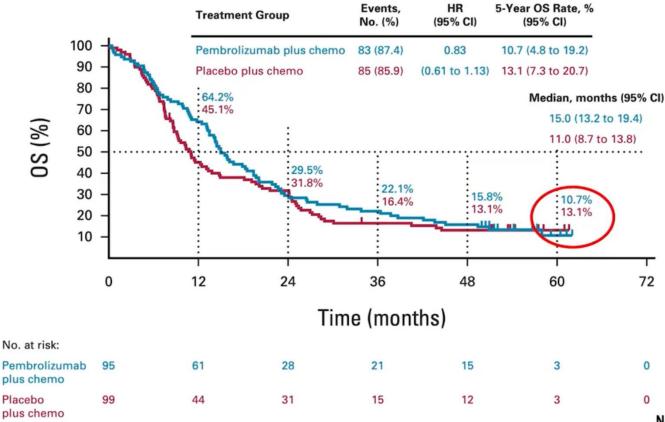




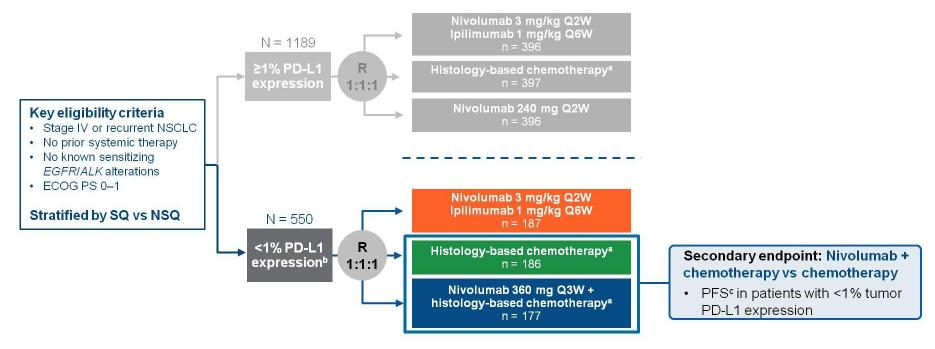
Garassino, JCO 2023

KN-407:OS PD-L1Neg Sq





CheckMate 227 Part 1 Study Design



Co-primary endpoints: OS in PD-L1—selected populations and PFS^c in TMB-selected populations treated with nivolumab + ipilimumab vs chemotherapy

Database lock: January 24, 2018; minimum follow-up: 11.2 months

NSQ: pemetrexed + cisplatin or carboplatin, Q3W for ≤4 cycles, with optional pemetrexed maintenance following chemotherapy or nivolumab + pemetrexed maintenance following nivolumab + chemotherapy; SQ: gemcitabine + cisplatin, or gemcitabine + carboplatin, Q3W for ≤4 cycles; Done patient was randomized with <1% tumor PD-L1 expression in IVRS, but was subsequently found to have ≥1% tumor PD-L1 expression; Per BICR

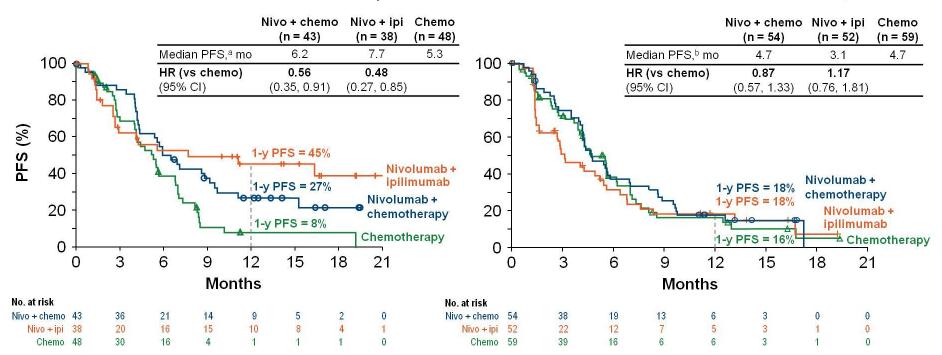


N Engl J Med 2019;381:2020-2031 DOI: 10.1056/NEJMoa1910231

PFS: Nivolumab + Chemotherapy and Nivolumab + Ipilimumab By TMB



TMB <10 mut/Mb and <1% Tumor PD-L1 Expression



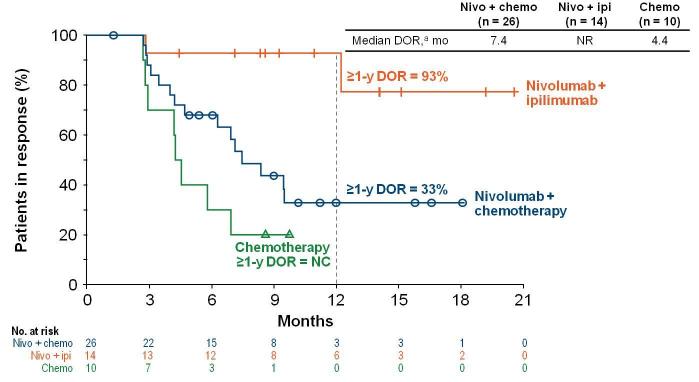
Exploratory analysis

³95% CI: nivo + chemo (4.3, 9.1 mo), nivo + ipi (2.7, NR mo), chemo (4.0, 6.8 mo); ⁵95% CI: nivo + chemo (4.2, 6.9 mo), nivo + ipi (1.6, 5.4 mo), chemo (3.9, 6.2 mo)



N Engl J Med 2019;381:2020-2031 DOI: 10.1056/NEJMoa1910231 13

DOR: Nivolumab + Chemotherapy and Nivolumab + Ipilimumab in Patients With TMB ≥10 mut/Mb and <1% Tumor PD-L1 Expression



• ORR was 60.5% with nivo + chemo, 36.8% with nivo + ipi, and 20.8% with chemo

Exploratory analysis %95% CI: nivo + chemo (4.6, NR mo), nivo + ipi (12.2, NR mo), chemo (2.7, 6.9 mo)



11

CheckMate 9LA: Study Design

Randomized, open-label, phase III study

Stratified by PD-L1 expression ($\geq 1\%$ vs < 1%), sex, and histology (squamous vs nonsquamous) Patients with Nivo 360 mg Q3W + Ipi 1 mg/kg Q6W stage IV or recurrent + CT* Q3W (2 cycles) NSCLC, no previous (n = 361)systemic Tx, no Until PD, unacceptable sensitizing EGFR/ALK toxicity, or for 2 yrs for alterations, ECOG PS 0/1 *immunotherapy* CT* Q3W (4 cycles) (N = 719)Optional pemetrexed maintenance (NSQ) (n = 358)Primary endpoint: OS

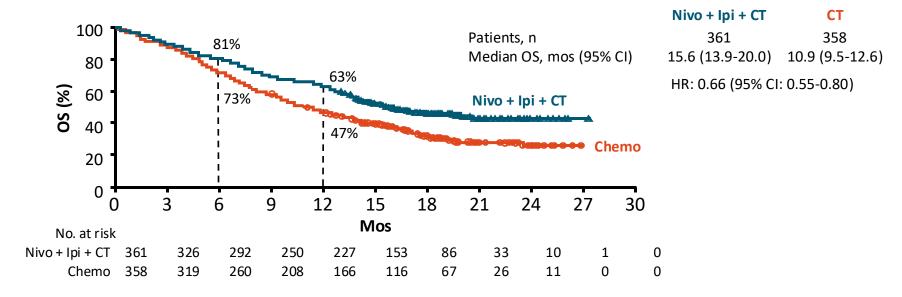
Secondary endpoints: PFS, ORR, efficacy by tumor PD-L1 expression

*Pts with NSQ: pemetrexed + cisplatin or carboplatin; pts with SQ: paclitaxel + carboplatin.

Reck. ASCO 2020. Abstr 9501.

CheckMate 9LA: Updated OS Results

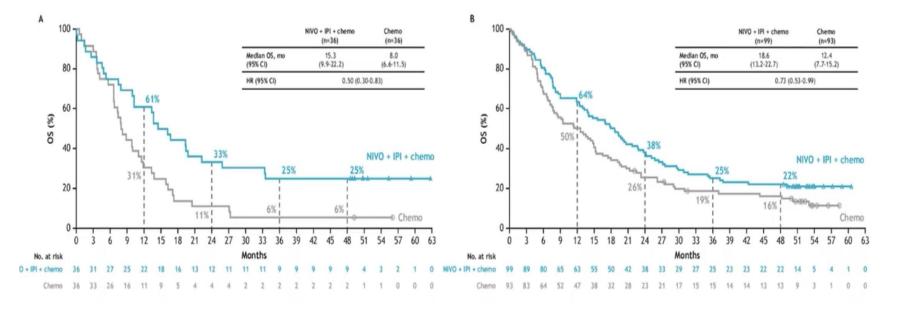
- Interim analysis (minimum FU 8.1 mos) median OS, Nivo + Ipi + CT vs CT: 14.1 vs 10.7 mos; HR: 0.69 (95% CI: 0.55-0.87); P = .0006; met primary endpoint
- Updated results (minimum FU 12.7 mos)



Reck. ASCO 2020. Abstr 9501. Reproduced with permission.





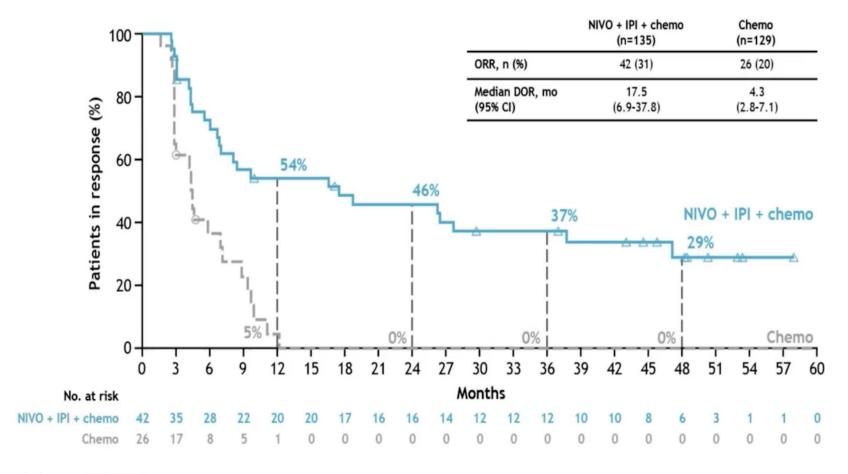


Squamous

Non-squamous

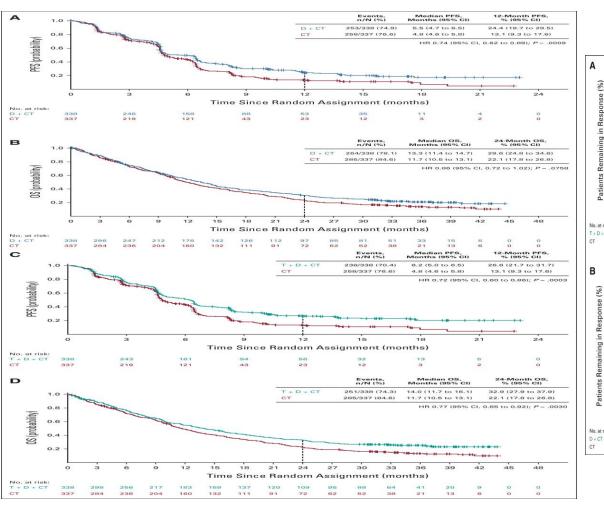


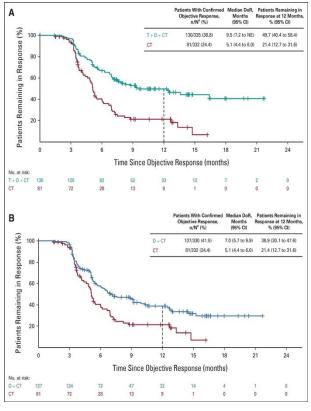
CK9LA – DoR (PD-L1Neg Subset)



D +/- T in Combination With CT as First-Line Therapy for Metastatic NSCLC The Phase III POSEIDON Study (N - 1,013 - (1:1:1)

Journal of Clinical Oncology 2023 411213-1227.DOI: 10.1200/JCO.22.00975





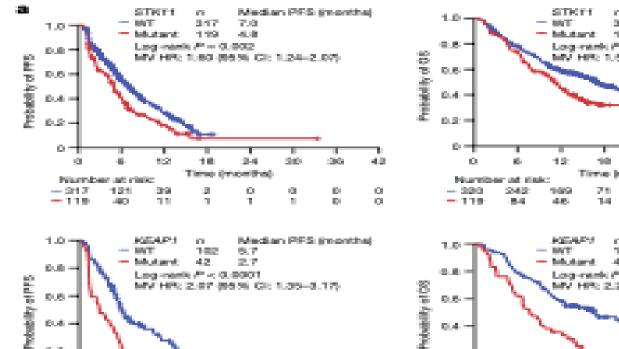
<u>D+CT vs CT PFS</u> -HR, 0.74; P = .0009 (Median, 5.5 v 4.8 months); OS HR, 0.86; P = .0758 (Median, 13.3 v 11.7 months).

<u>D+T+CT vs CT PFS</u> (HR, 0.72; P = .0003 (Median, 6.2 v 4.8 months); OS (HR, 0.77; P = .003 (Median, 14.0 v 11.7 months)

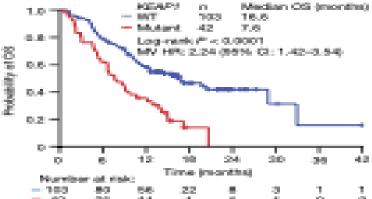
CTP: OS/PFS - STK/KEAP Mut v WT



Median OS (months):

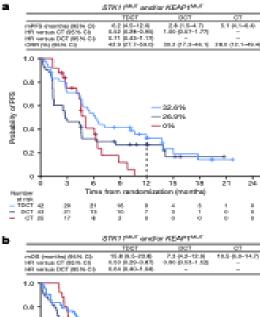


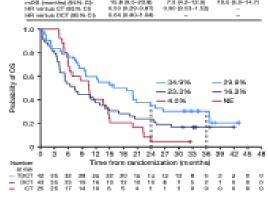
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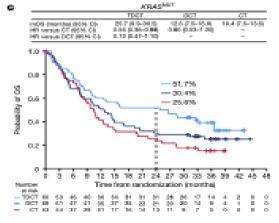


Skoulidis et al: Nature Vol: 635, 2024

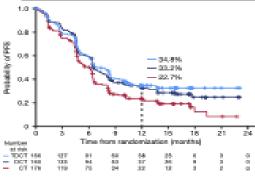
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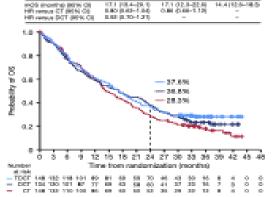
STRIPPY and REAPTY

17/1/09/20 (03/20)

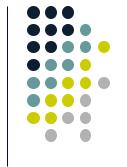
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Probability of OS	0.6 - 0.6 - 0.4 -							-	- 34	2.7%		-	- 25	1.7%	6	
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TEST

57.2 [54.2-44.7]



AFRAS^{ME}



POSEIDON: Clinical outcomes in molecularly defined subsets.

STK &/or KEAP Mt v Wt

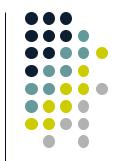
- a. PFS
- b. OS

KRAS Mt v Wt

c. OS

Skoulidis et al: Nature Vol: 635. 2024

First-Line NSCLC Rx Selection



PD-L1	ТМВ	KRAS	STK11/KEAP1	Therapy Selection
>90%	H or L	Wt or Mt	Wt	PD1/PD-L1
50 to 90%	H or L	Wt or MT	Wt	CT+PD1/PDL1 <75yrs PD1/PDL1 >75yrs
1 – 49%	H or L	Wt or Mt	Wt	CT+PD1/PDL1
0%	Н	Wt	Wt	PD1+CTLA4
0%	L	Wt	Wt	CT+PD1/PD-L1+CTLA4 CT+PD1/PDL1
0%	Н	Mt	Wt	PD1+CTLA4
0%	L	Mt	Wt	CT+PD1/PD-L1+CTLA4
Any	Н	Wt or Mt	Mt	PD1+CTLA4 CT+PD1/PD-L1+CTLA4
Any	L	Wt ot Mt	Mt	CT+PD1/PD-L1+CTLA4



IInd Line NSCLC Biomarker & First-Line Response Based treatment Selection







Acquired Resistance

Overall survival from a phase II randomized study of ramucirumab plus pembrolizumab versus standard of care for advanced non-small cell lung cancer previously treated with immunotherapy—Lung-MAP non-matched sub-study S1800A

Karen L. Reckamp, M.D.¹, Mary W. Redman, PhD², Konstantin H. Dragnev, M.D.³, Liza Villaruz, M.D.⁴, Bryan Faller, MD⁵; Tareq Al Baghdadi, MD⁶, Susan Hines, MD⁷, Lu Qian, M.S.², Katherine Minichiello, M.S.², David R. Gandara, M.D.⁸, Karen Kelly, MD⁸, Roy S. Herbst, M.D., Ph.D.⁹

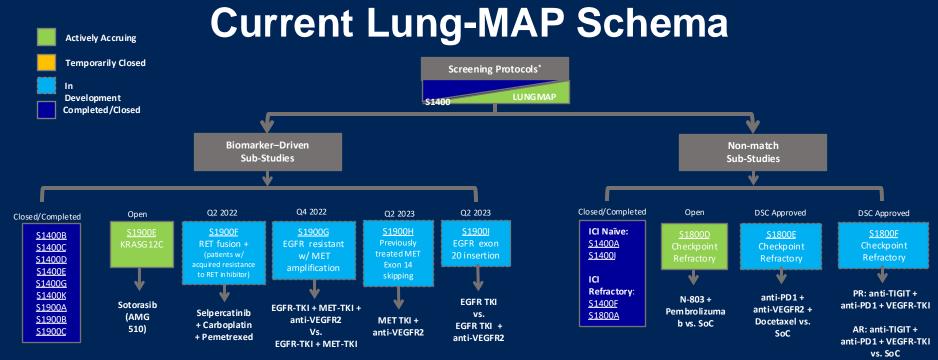
¹Cedars-Sinai Medical Center, Los Angeles, CA; ²SWOG Statistics and Data Management Center & Fred Hutchinson Cancer Research Center, Seattle, WA; ³Dartmouth-Hitchcock Norris Cotton Cancer Center, Lebanon, NH/Alliance for Clinical Trials in Cancer; ⁴University of Pittsburgh Medical Center (UPMC) Hillman Cancer Center; ⁵Missouri Baptist Medical Center, St. Louis, MO/Heartland NCORP; ⁶IHA Hematology Oncology Consultants-Ann Arbor/Michigan CRC NCORP; ¬Novant Health Cancer Institute - Mount Airy/Southeast Clinical Oncology Research Consortium NCORP); ⁶UC Davis Comprehensive Cancer Center, Sacramento, CA; ⁶Yale University, New Haven, CT











*LUNGMAP screening protocol (activated 1/28/19) allows all histologic types of NSCLC. S1400, the original screening/umbrella protocol included only squamous lung cancer. S1400 accrued patients between 6/16/2014 and 1/28/2019. While S1400 is closed to accrual, patients enrolled to S1400 may participate in sub-studies they are eligible for.

TRIAL POINTS OF INTEREST:

- Each of sub-study operates independently of the others
- Prescreening can be performed while the patient is on any line of therapy for stage IV disease
- Repeat or fresh biopsy necessary for tissue screening is paid by the trial
- #Biomarker-driven sub-studies may progress to Phase III if study meets endpoint and Phase III is feasible, at which point the standard of care arm will be determined.

Karen L. Reckamp, MD, MS













S1800A Schema—Randomized Phase II trial

NCT03971474

Stratified by 1) PD-L1 expression, 2) histology, 3) intent to receive ramucirumab in standard of care arm

Primary endpoint:
OS
Secondary
endpoints: RR, DCR,
DoR, PFS, Toxicities

ARM A Investigator's Choice Standard of Care docetaxel + ramucirumab; docetaxel; gemcitabine; pemetrexed (nonSCC only)

Randomizatio n R (1:1) N= 130 ARM B
Pembrolizumab
200 mg Q3W for
up to 35 cycles
+
Ramucirumab
10 mg/kg Q3W

Key eligibility: 1) Previously received both PD-1 or PD-L1 inhibitor therapy and platinum-based doublet chemotherapy either sequentially or combined, with PD on at least 84 days after initiation of ICI and platinum-based doublet therapy; 2) ECOG 0-1; 3) all patients met eligibility to receive ramucirumab







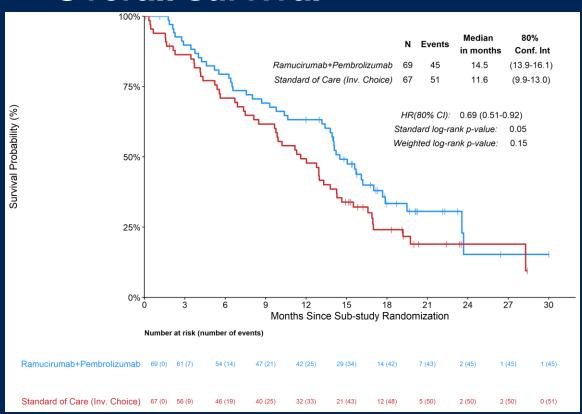








Overall survival



- Median OS for RP 14.5 months v. SOC 11.6 months
- HR= 0.69; SLR p-value 0.05

Standard of care therapy received:

- Docetaxel + Ramucirumab (n = 45)
- Docetaxel (n = 3)
- Gemcitabine (n = 12)
- Pemetrexed (n = 1)
- No treatment (n = 6)









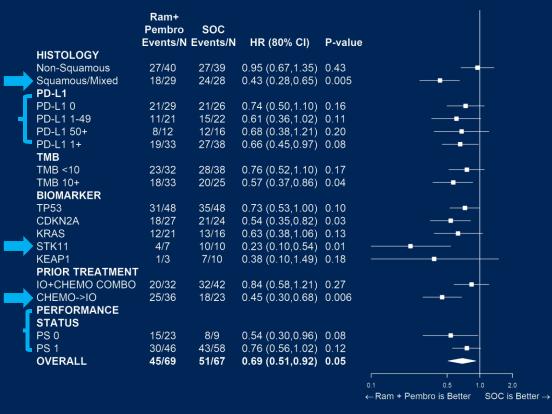


Karen L. Reckamp, MD, MS





Overall survival—subgroup analysis



- All subgroup HRs < 1
- HRs by PD-L1 does not appear to vary
- Pronounced benefit in SCC/mixed histology
- Benefit seen with PS 0 and 1
- Co-mutations did not affect OS improvement









PhIII Trial Underway



S2302: Pragmatica-Lung Treatment Trial

A Prospective Randomized Study of Ramucirumab Plus Pembrolizumab vs Standard of Care for Participants Previously Treated with Immunotherapy for Stage IV or Recurrent Non-Small Cell Lung Cancer

Chair: Karen Reckamp, MD (SWOG)

Co-Chair: Konstantin Dragnev, MD (Alliance)

Statistical Chair: Mary Redman, PhD

Co-statisticians: Jieling Miao, MD, James Moon, MS

Study Champions: Wade Iams, MD (ECOG-ACRIN)

Brian S. Henick (NRG Oncology)

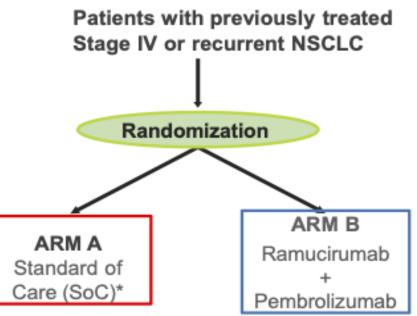
Lung Community Engagement

Subcommittee Rep:

Daniel Carrizosa, MD, MS

Company Collaborators: Eli Lilly & Co. and Merck Primary endpoint: Overall Survival

Accrual Goal: 700 participants



^{*} SoC treatment is to be determined by the treating investigator and participant. It is recommended that the choice of SoC drug(s) is based on NCCN guidelines for a "systemic therapy for advanced or metastatic disease-subsequent."





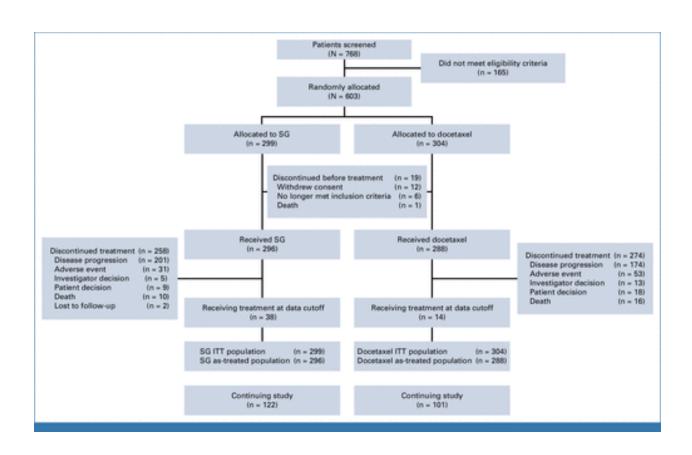


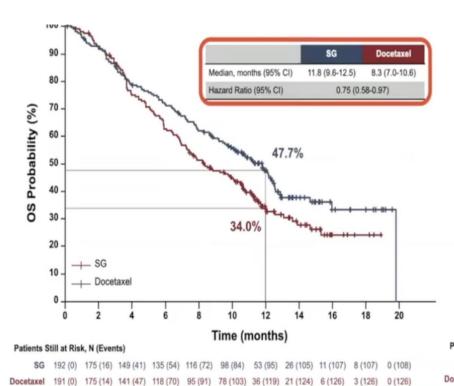
FIG 1. Patient disposition: CONSORT diagram. ITT, intention-to-treat; SG, sacituzumab govitecan.

Published in: Luis G. Paz-Ares; Oscar Juan-Vidal; Giannis S. Mountzios; Enriqueta Felip; Niels Reinmuth; Filippo de Marinis; Nicolas Girard; Vipul M. Patel; Takayuki Takahama; Scott P. Owen; Douglas M. Reznick; Firas B. Badin; Irfan Cicin; Sabeen Mekan; Riddhi Patel; Eric Zhang; Divyadeep Karumanchi; Marina Chiara Garassino JCO 2024 05-31 DOI: 10.1200/JCO.24.00733

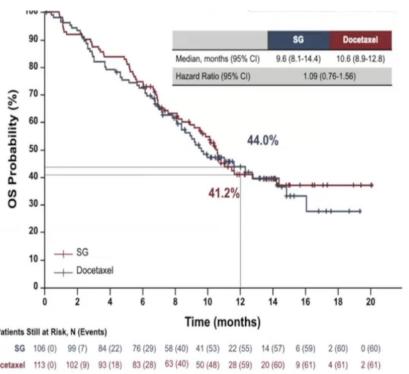
EVOKE-01: OS based on response to Anti-PD(L)-1 Rx



SD/PD after Anti-PD(L)-1 Rx

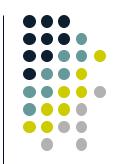


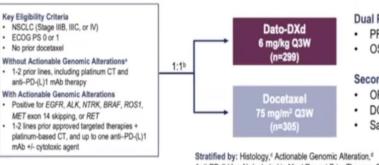
CR/PR after Anti-PD(L)-1 Rx



In the prespecified subgroup analysis, there was a 3.5-month improvement in median OS over docetaxel among patients whose tumors where non-responsive (SD/PD) to last anti-PD-(L)1–containing regimen.

TROPION-Lung-01 NSQ Vs Sq PFS





Dual Primary Endpoints

- PFS by BICR
- OS

Secondary Endpoints

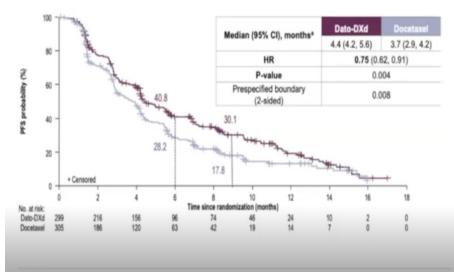
- ORR by BICR
- DOR by BICR
- Safety

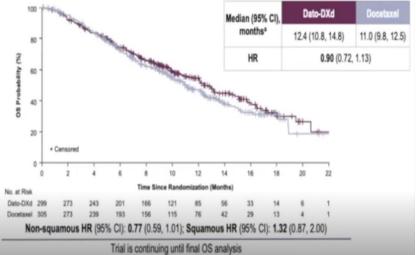
Anti-PD-(L)1 mAb Included in Most Recent Prior Therapy, Geography®



Non-squamous: 0.63

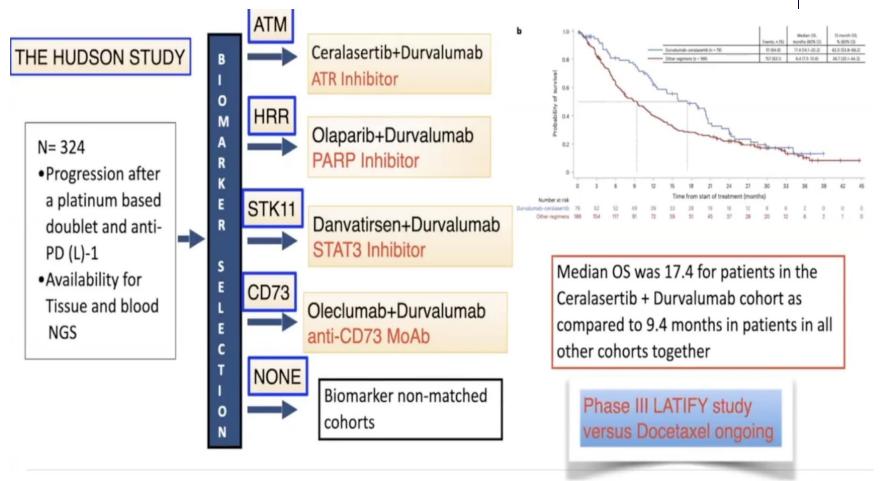
Squamous 1.38





Biomarker driven IInd line Cohorts







Targeting RAS: Emerging Landscape

Programs (company)	IND	Target	Phase
Sotorasib/AMG 510 (Amgen)			Approved
Adagrasib/MRTX849 (Mirati)			
D-1553 (InventisBio)			
JDQ443 (Novartis)			
RG6330/GDC-6036 (Roche)		KRAS ^{G12C}	
LY3537982 (Eli Lilly)			Clinical
BI 1823911 (Boehringer Ingelheim)			
JAB-21822 (Jacobio)			
GFH925 (GenFleet)			
GH35 (Genhouse Bio)			
MRTX1133 (Mirati)			
KRASG12D1-3 (Boehringer Ingelheim)		KRAS ^{G12D}	
RAS(ON) G12D (Revolution Medicines)			Preclinical
RAS(ON) G13C (Revolution Medicines)		KRASG13C	

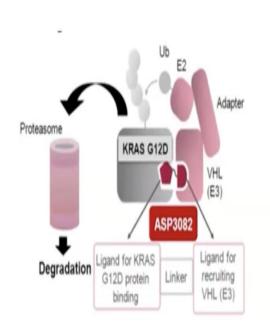
Pan-(K)RAS inhibitors					
Programs (company)	IND	Target	Phase		
RSC-1255 (RasCal Therapeutics)		Pan-RAS	Clinical		
BI-pan-KRAS1-4 inhibitors		Pan-KRAS:			
(Boehringer Ingelheim)		KRAS ^{6120/V} ,			
		KRAS wild-type			
BI-pan-KRASdegrader1		Pan-KRAS:	Preclinical		
(Boehringer Ingelheim)		KRASG12C/D/V/A,			
		KRASG13C.			
		KRASA146T/P.			
		KRASQ61E/P,			
		KRAS wild-type			
RMC-6236 (Revolution Medicines)		Pan-RAS:			
		KRASG120/V,			
		KRASG130			
		KRASQ61K			
		RAS wild-type			

Key Features in evaluating RAS compounds:

Allele-specific	Pan-RAS
Ras(on)	RAS(off)
Covalent	Non-covalent
Inhibitor	Degrader or Glue

ASP-3082 is a G12D degrader





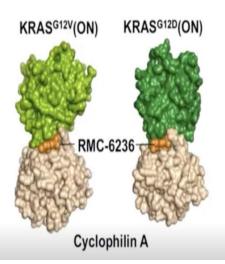
Allele-specific	Pan-RAS
Ras(on)	RAS(off)
Covalent	Non-covalent
Inhibitor	Degrader or Glue

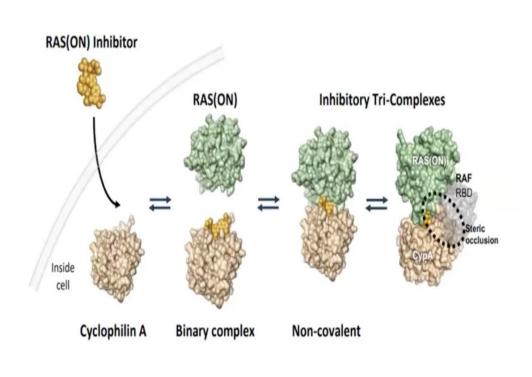
Wang et al. JMC 2022

Pan-RAS inhibitor: Non-Covalent Glue



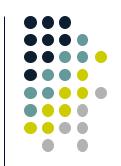
Allele-specific	Pan-RAS
Ras(on)	RAS(off)
Covalent	Non-covalent
Inhibitor	Degrader or Glue





Revolution Medicines: AACR 2022

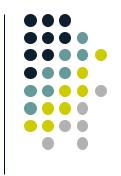
Some of the novel RASi under development



Company	Target	Mechanism	Phase	Targets
Revolution	pan-RAS	Molecular Glue	Phase III	PDAC, NSCLC, CRC
Eli Lilly	pan-KRAS (without R)	Inhibitor	Phase I	Solid Tumors
Boehringer	pan-KRAS; degraders	Inhibitor	Phase I	KRAS amp, solid tumors
Genentech	pan-KRAS	Inhibitor	Phase I	Solid Tumors
Pfizer	pan-KRAS	Inhibitor	Phase I	Solid Tumors
Quanta Therapeutics		Inhibitor	Preclinical, Phase I	
Erasca	Multiple: pan-KRAS; pan-RAS	Glue, inhibitor	Preclinical, Phase I	
Beigene	pan-KRAS	Inhibitor	Preclinical, Phase I	
Alterome	pan-KRAS	Inhibitor	Preclinical	
Arvinas	G12D	Degrader	Preclinical	
Astellas	G12D	Degrader	Phase 1b Expansion	NSCLC, PDAC, CRC

Hofmann et al. Cancer Discovery 2022

Does Comprehensive Genomic Analyses (CGP) improve survival over Simple Panel Testing?



 Population. Patients diagnosed with advanced or metastatic non-small cell lung cancer (aNSCLC) between 1/1/2015 and 12/31/2020, who received small panel testing or comprehensive genomic profiling.

Key Exposures.

- Small panel. Panels that interrogated between 1 and 52 genes
- Comprehensive genomic profiling (CGP). Panels that interrogated more than
 52 genes

Outcomes.

- Overall survival (OS). Time to the earliest of death or study end date
- Time to next treatment or death (TTNT). Time from to the first of: initiation of the subsequent line of treatment, death, date of last contact, or study end date.

Select Patient Characteristics



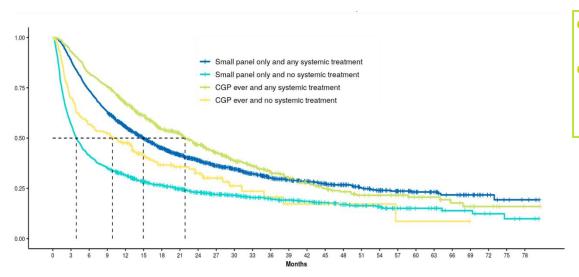
	Total	Small Panel Only	CCP Ever
Stage at initial diagnosis, N (%)	N = 3884	N = 3105	N = 779
I	147 (3.8%)	113 (3.6%)	34 (4.4%)
II	82 (2.1%)	59 (1.9%)	23 (3.0%)
III	676 (17%)	551 (18%)	125 (16%)
IV	2,812 (72%)	2,252 (73%)	560 (72%)
Histology, N (%)			
Squamous	818 (21%)	693 (22%)	125 (16%)
Non-squamous	2,659 (68%)	2,083 (67%)	576 (74%)
Age*, Median (IQR)	68 (61, 76)	69 (61, 76)	67 (60, 74)
Male, <i>N(%)</i>	1,935 (50%)	1,560 (50%)	375 (48%)
Health System, N (%)			
1	924 (24%)	715 (23%)	209 (27%)
2	2,098 (54%)	1,879 (61%)	219 (28%)
3	862 (22%)	511 (16%)	351 (45%)
Smoking History, N (%)			
Currentsmoker	1,303 (34%)	1,046 (34%)	257 (33%)
Formersmoker	1,886 (49%)	1,517 (49%)	369 (47%)
Neversmoker	466 (12%)	336 (11%)	130 (17%)

Similarly distributed between small panel and CGP recipients:

- Year of initial aNSCLC diagnosis
- Sex
- Race/ethnicity
- Region of residence
- Median household income
- Comorbidity
- Performance status
- Stage and age at initial NSCLC diagnosis
- Histology
- Smoking history
- Sites and number of metastases

Overall Survival (OS) From aNSCLC Diagnosis, by Testing Type and Receipt of Systemic Therapy





Patients who received CGP testing and any systemic therapy had the best median OS.

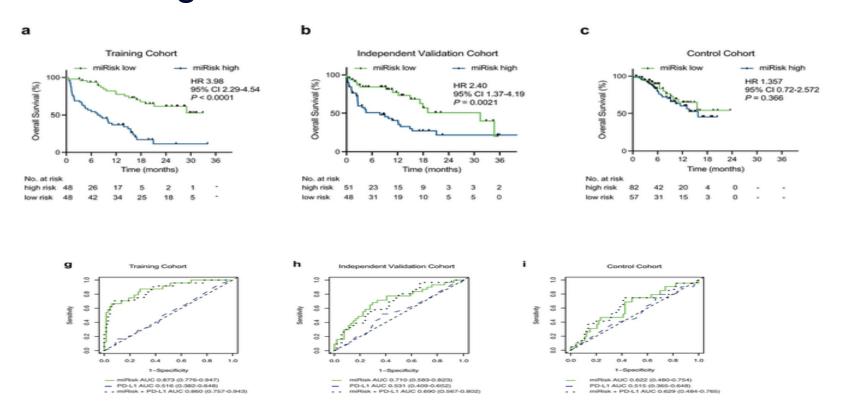
The treated patients groups had better survival than untreated patients in both CGP and small panel only groups.

Number at Risk at Index	Testing/Treatment Group	Median, months (95% CI)	6 months	1 year	5 years
1852	SP with any systemic therapy	15 (14-16)	0.74 (0.72, 0.76)	0.56 (0.53, 0.58)	0.23 (0.2, 0.26)
1253	\$Pand no systemic therapy	4 (4-5)	0.41 (0.39, 0.44)	0.31 (0.29, 0.34)	0.15 (0.13, 0.18)
603	CGP with any systemic therapy	22 (18-25)	0.82 (0.79, 0.85)	0.67 (0.64, 0.71)	0.21 (0.16, 0.26)
176	CGP and no systemic therapy	10 (6-15)	0.57 (0.5, 0.65)	0.48 (0.41, 0.56)	0.09 (0.02, 0.39)

Can Al Outperform PD-L1? Hummingbird's MicroRNA profile

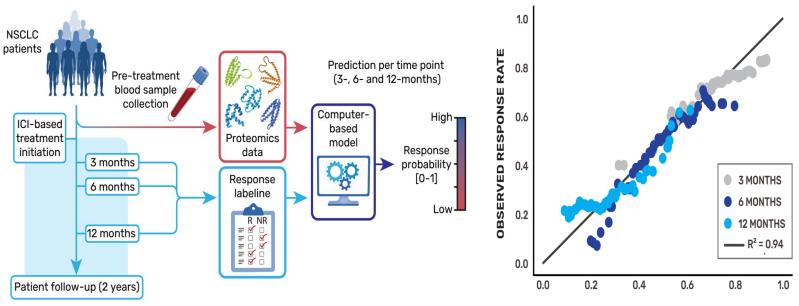


Hummingbird's MiRisk Profile

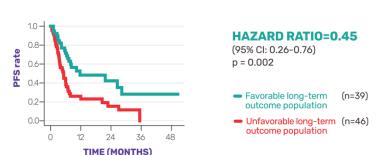


Can Al Outperform PD-L1? OncoHost – Proteomic Platform

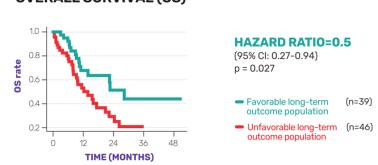








OVERALL SURVIVAL (OS)



PREDICTED RESPONSE PROBABILITY





Predicting 3-month multi-lesion response to PD-1/PD-L1 immune checkpoint inhibitor therapy in stage IV NSCLC: A radiomics-based multi-modal model

PD-1/PD-L1 immunotherapy response performance (ROC-AUC) of 3-months PFS per RECIST 1.1.						
Biomarker	First-line ICI Monotherapy (N = 91)	All-lines ICI Monotherapy (N=138)	All-lines ICI + Chemotherapy (N=114)			
Multi-modal	0.81	0.72	0.71			
CT radiomics	0.71	0.61	0.62			
PD-L1 IHC	0.61	0.60	0.58			

Conclusions



- PD-L1, TMB, and ?KRAS/STK11/KEAP1 status my drive
 Optimal first-line therapy selection
- Response to first-line therapy, histology and molecular characteristics may drive therapy selection (including clinical trials) in IInd-line
- Repeated CGA may be necessary to optimize therapy selection as well as to advance our understanding of mechanisms of resistance
- Al may outperform histology or blood-based biomarker testing



Thank YOU!

Gracias!

