VII CONVEGNO NAZIONALE DELLA RETE ONCOLOGICA SIFaCT



Oltre il modello mutazionale e l'oncologia di precisione: la medicina personalizzata



Milano 23-24 Giugno 2023

News from ASCO: la medicina personalizzata Claudia Proto, MD

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Disclosures

Commercial Interest	Relationship(s)
AstraZeneca, Roche, MSD, Bristol Myers Squibb, Sanofi/Regeneron	Honorarium
AstraZeneca, Roche, MSD	Travel accommodation, Roche
AstraZeneca, Roche, MSD, Janssen	Advisory Board
Janssen, Pfizer, Lilly, Spectrum Pharmaceuticals, Roche, MSD, BMS, AstraZeneca	Principal Investigator in clinical trials



AGENDA

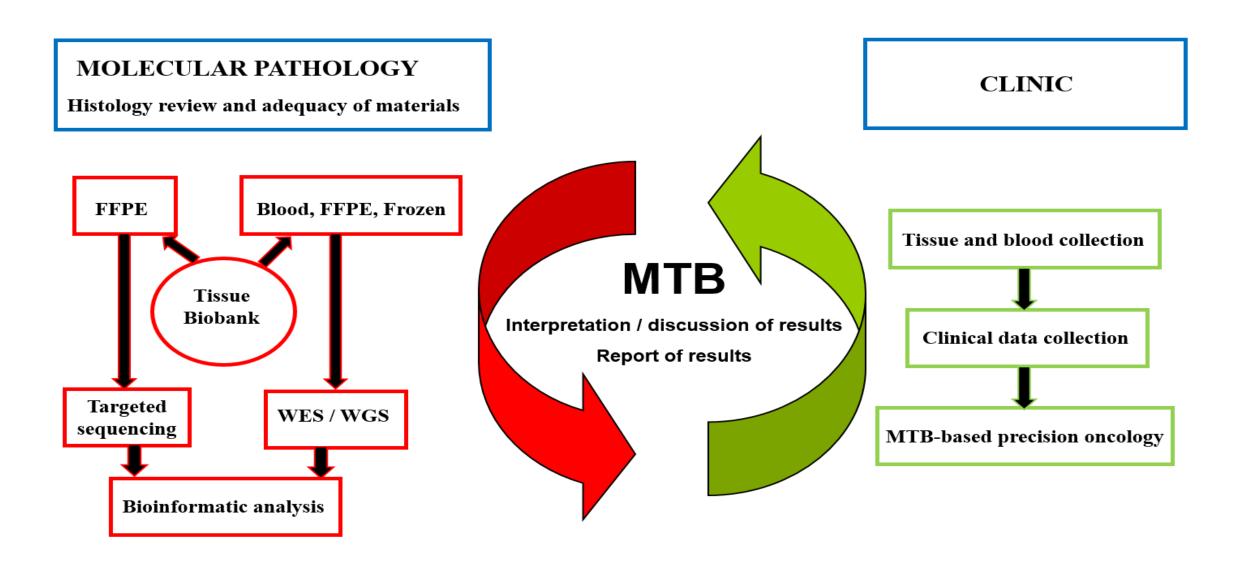
NEWS from ASCO 2023

➤TARGET THERAPY
Non Small Cell Lung cancer → EGFR, KRAS, ROS1, BRAF
Urothelial carcinoma → FGFR
Biliary tract cancer → HER2

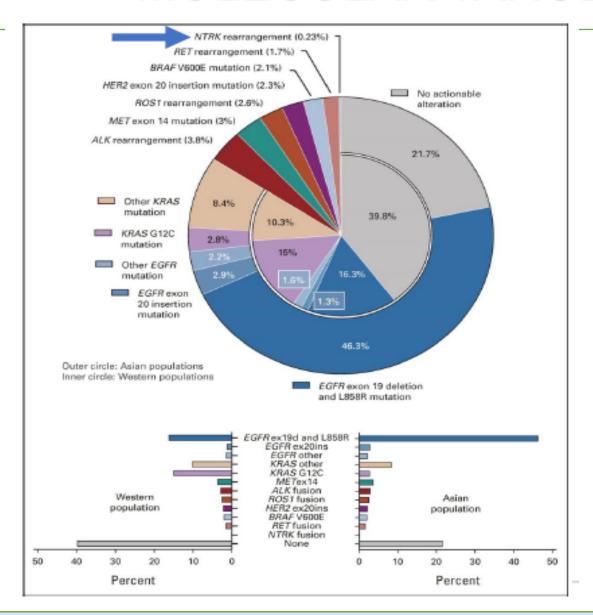
➤ ANTIBODY DRUG CONITUGATES
Non small cell lung cancer, Breast Cancer → anti TROP2
Breast cancer → anti HER2 and HER3
Solid tumors → anti HER2



Molecular Tumor Board: precision oncology decision support



MOLECULAR TARGETS IN NSCLC



- EGFR mutations
- ALK rearrangements
- ROS1 rearrangements
- BRAF mutations
- NTRK gene fusions
- RET rearrangements
- MET alterations
- KRAS mutations
- HER2 alterations



EGFR mutant NSCLC



ADAURA trial: Adjuvant osimertinib in patients with resected EGFR mutated stage IB-IIIA NSCLC

ADAURA Phase III study design

Patients with completely resected Planned treatment duration: stage* IB, II, IIIA NSCLC, with or without 3 years adjuvant chemotherapy† Osimertinib 80 mg. once daily Treatment continued until: Key inclusion criteria: ≥18 years (Japan / Taiwan: ≥20) Disease recurrence Stratification by: WHO performance status 0 / 1 Treatment completion Randomization Stage (IB vs II vs IIIA) Discontinuation criterion met Confirmed primary non-squamous NSCLC 1:1 EGFRm (Ex19del vs L858R) Fx19del / I 858R‡ (N=682)Race (Asian vs non-Asian) Follow-up: Brain imaging, if not completed pre-operatively Until recurrence: Week 12 and Complete resection with negative margins§ 24, then every 24 weeks to Maximum interval between surgery and Placebo. 5 years, then yearly randomization: once daily 10 weeks without adjuvant chemotherapy • After recurrence: every 24 weeks · 26 weeks with adjuvant chemotherapy for 5 years, then yearly

Endpoints

- Primary endpoint: DFS by investigator assessment in stage II-IIIA patients
- Key secondary endpoints: DFS in the overall population (stage IB-IIIA), landmark DFS rates, OS, safety, health-related quality of life





PRESENTED BY: Roy S. Herbst

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*At the time of recruitment, staging was determined by the AJCC / UICC Staging Manual 7th edition. Patients with stage IB disease were not eligible in Japan. *Pre-operative, post-operative, or planned radiotherapy was not allowed.

*Centrally confirmed in tissue. *Patients received a CT scan after resection and within 28 days prior to treatment.

AJCC, American Joint Committee on Cancer; CT, computerized tomography, DFS, disease-free survival; EGFRm, epidermal growth factor receptor-mutated; Ex19del, exon 19 deletion; NSCLC, non-small cell lung cancer; OS, overall survival; UICC, Union for International Cancer Control; WHO, World Health Organization







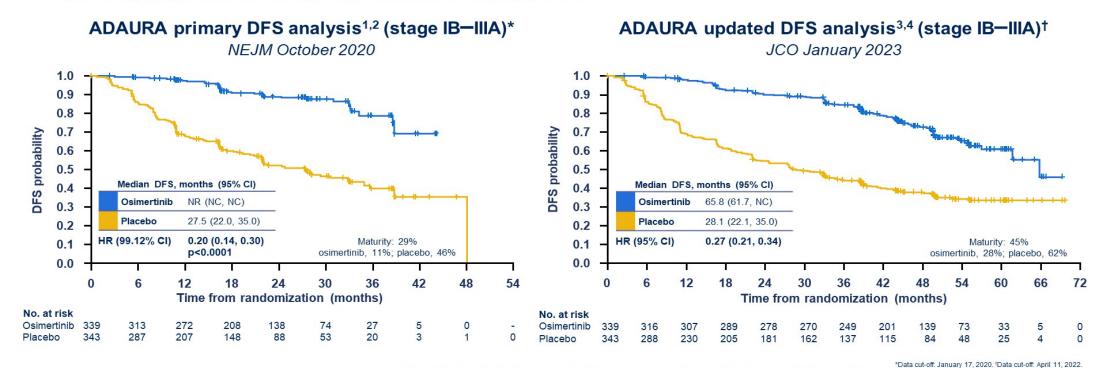
ADAURA trial: DFS results

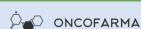
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Adjuvant osimertinib has significantly improved DFS

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Adjuvant osimertinib demonstrated highly statistically significant^{1,2} and clinically meaningful improvement in DFS in completely resected EGFRm NSCLC vs placebo in both the primary (stage II-IIIA) and overall (IB—IIIA) populations, along with a tolerable safety profile^{1–4}

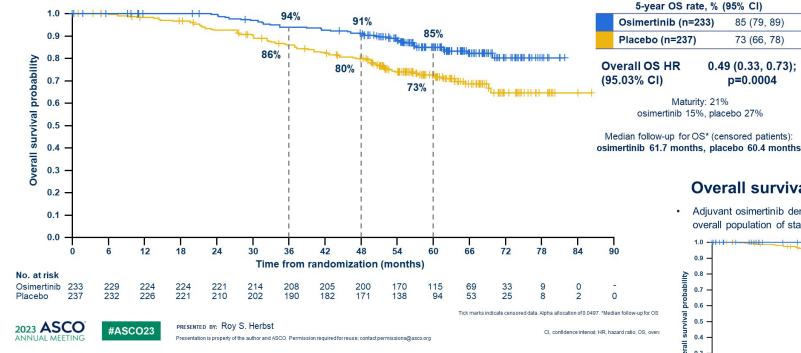




ADAURA trial: Overall Survival analysis

Overall survival: patients with stage II / IIIA disease

Adjuvant osimertinib demonstrated a statistically and clinically significant improvement in OS vs placebo in the primary population of stage II-IIIA disease



Overall survival: patients with stage IB / II / IIIA disease

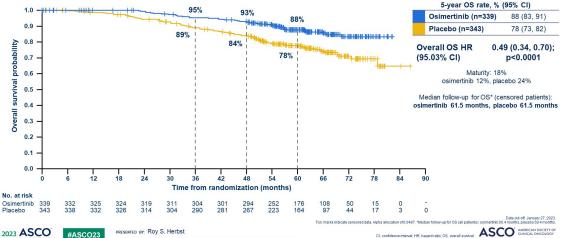
85 (79, 89)

73 (66, 78)

0.49 (0.33, 0.73);

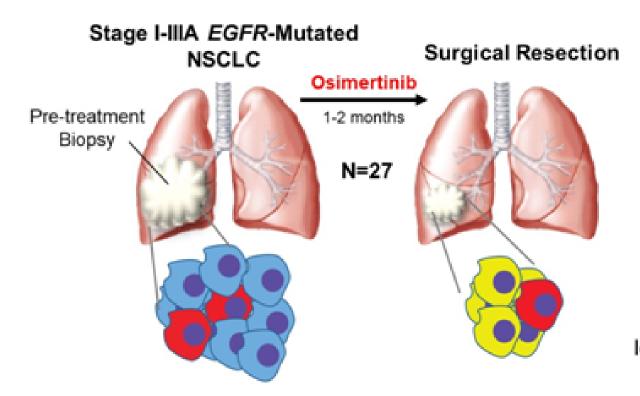
p=0.0004

Adjuvant osimertinib demonstrated a statistically and clinically significant improvement in OS vs placebo in the overall population of stage IB-IIIA disease



Herbst RS, ASCO 2023

Phase II trial of **Neoadjuvant Osimertinib** for surgically resectable EGFR-Mutated Non-Small Cell Lung cancer



Primary Endpoint:

Major Pathological Response (MPR) Rate (Powered to detect MPR ~ 50%)

Secondary Endpoints:

Safety:

Surgical Complications Unresectability Rate Efficacy:

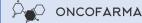
Lymph Node Downstaging Pathological Response Rate pCR Rate 5-year DFS/OS

Exploratory Endpoint:

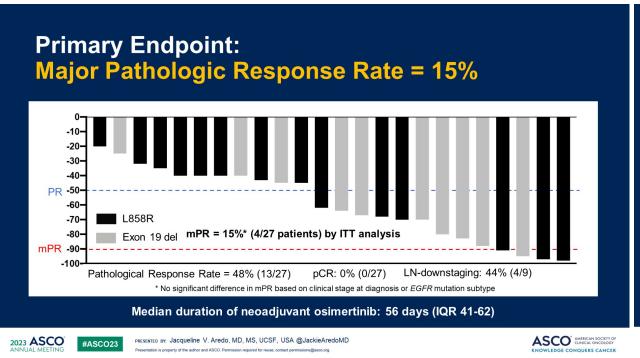
Identify mechanisms underlying disease persistence

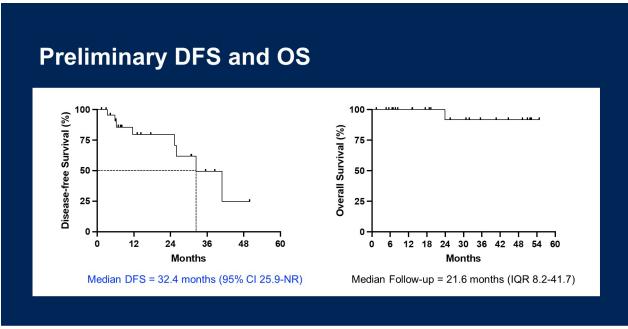
Primary endpoint: Major Pathological Response Rate (MPR)

Modified by Aredo JV, ASCO 2023



Neoadjuvant osimertinib: efficacy results







PRESENTED BY: Jacqueline V. Aredo, MD, MS, UCSF, USA @JackieAred



Neoadjuvant osimertinib did not meet the primary endpoint of a MPR of 50%

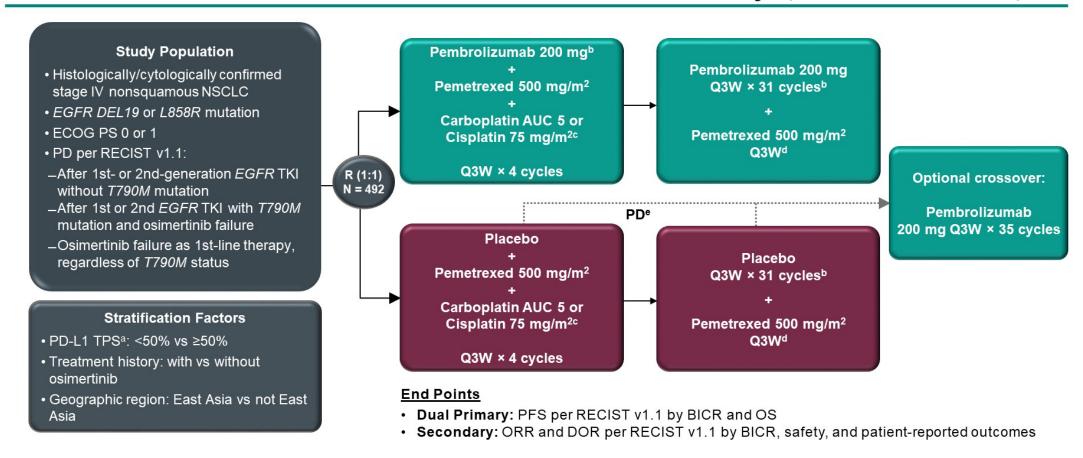
Aredo JV, ASCO 2023





KEYNOTE 789: CT with or without IO in EGFR+ NSCLC

KEYNOTE-789: Phase 3 Randomized Study (NCT03515837)



^aPD-L1 expression was centrally assessed using PD-L1 IHC 22C3 pharmDx (Agilent Technologies, Carpinteria, CA). ^bIf a patient has documented PD but is benefiting clinically, they may receive pembrolizumab monotherapy to complete a total of 35 pembrolizumab administrations. ^cCarboplatin or cisplatin therapy is at the investigator's choice. ^dMaintenance pemetrexed may continue past 35 cycles until reaching a discontinuation criterion if the patient is receiving benefit; however, pembrolizumab or saline placebo are limited to 35 cycles. ^aPatients could crossover at any time during the treatment. To be eligible for crossover, PD must have been verified by BICR.

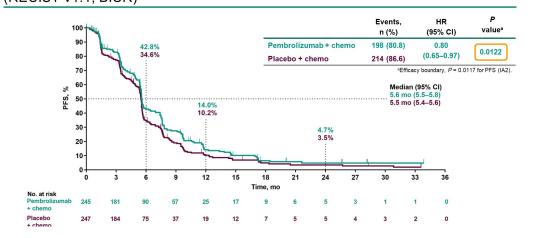


Sifact

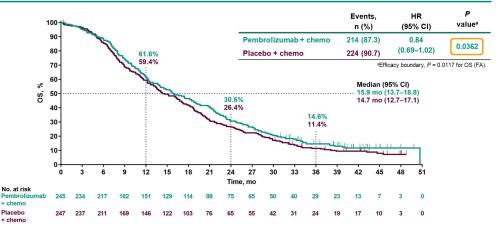


KEYNOTE 789: efficacy results

Progression-Free Survival at IA2 (RECIST v1.1, BICR)



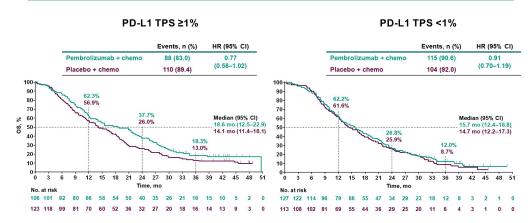
Overall Survival at FA



Median (range) time from randomization to data cutoff: 42.0 (29.5-53.9) months. Data cutoff date: January 17, 2023.

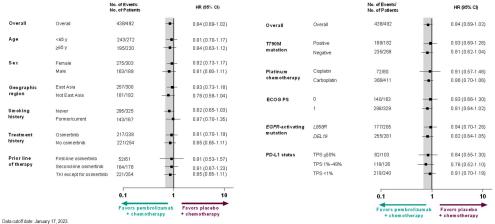
Yang JCH, ASCO 2023

Overall Survival in PD-L1 TPS ≥1% and <1% at FA



Data cutoff date: January 17, 2023

Overall Survival Across Subgroups at FA

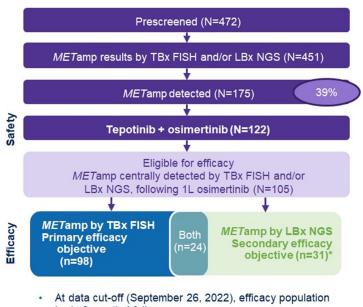




INSIGHT 2: tepotinib + osimertinib in MET ampl NSCLC after 1L osimertinib

INSIGHT 2: Patients

- In the Phase II INSIGHT 2 study (NCT03940703), patients with advanced EGFRm NSCLC with METamp after progression on 1L osimertinib received tepotinib 500 mg (450 mg active moiety) + osimertinib 80 mg once daily
- **METamp detected** by: TBx FISH (MET GCN ≥5 and/or *MET/CEP7* ≥2) and/or by LBx NGS (MET GCN ≥2.3; Archer®)
- Comprehensive analysis of prescreening METamp by TBx FISH & LBx NGS is reported by Yu et al. (Poster 9074, **ASCO 2023**)
- **Primary endpoint:** objective response by IRC for patients with centrally detected *MET*amp by **TBx FISH**



•	At data cut-off (September 26, 2022), efficacy population
	had ≥3 months' follow-up

•	Primary	analysis	will be	conducted a	at ≥9	months'	follow-up
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Baseline characteristics,	n (%)	Tepotinib + osimertinib (N=122)
Median age, years (range	e)	61 (20–84)
Sex	Female	73 (59.8)
Sex	Male	49 (40.2)
Race [†]	Asian	73 (59.8)
Nucc	White	43 (35.2)
Smoking status	Never	83 (68.0)
	Former/Current	39 (32.0)
ECOG PS	0	34 (27.9)
LC00 F3	1	88 (72.1)
Brain metastases (IRC)	Yes	21 (17.2)
EGFR mutation [‡]	Del19	72 (59.0)
EGFR mutation+	L858R	44 (36.1)
Time on 1L	<12 months	35 (28.7)
osimertinib [§]	≥12 months	79 (64.8)

^{*}Seven patients had METamp detected by central LBx NGS only (TBx FISH was not evaluable in five patients; TBx FISH was negative in two patients). †Race was Other/Not collected for six patients. ‡EGFR mutations were Other exon 21 mutation/Other for six patients. §Eight patients did not receive 1L osimertinib

¹L, first line; CEP7, centromere 7; ECOG PS, Eastern Cooperative Oncology Group performance status; Del19, exon 19 deletion; EGFR, epidermal growth factor receptor; FISH, fluorescent in situ hybridization; GCN, gene copy number; IRC, independent review committee; LBx, liquid biopsy; MET, mesenchymal-epithelial





PRESENTED BY: Daniel Shao-Weng Tan, Senior Consultant Medical Oncologist

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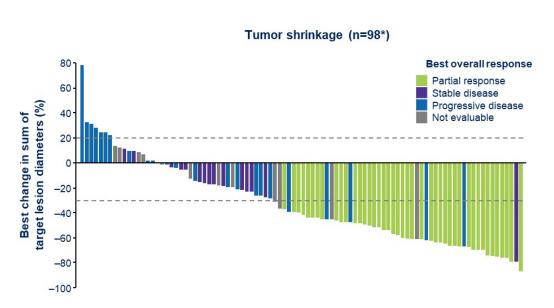


INSIGHT 2: tepotinib + osimertinib in MET ampl NSCLC after 1L osimertinib

INSIGHT 2: Efficacy TBx FISH⁺

- Of 98 patients with **TBx FISH**⁺ *MET*amp (primary analysis set), BOR was PR in 43 patients, for an ORR of 43.9% (95% CI: 33.9, 54.3)
- As the data matures, six additional PRs have been confirmed

		TBx FISH ⁺ (n=98)
	PR	43 (43.9)
BOR,	SD	15 (15.3)
n (%)	PD	23 (23.5)
	NE	17 (17.3)
ORR	% (95% CI)	43.9 (33.9, 54.3)
DOR	Median, months (95% CI)	9.7 (5.6, ne)
DOK	Events, n (%)	11 (25.6)
PFS	Median, months (95% CI)	5.4 (4.2, 7.1)
PFS	Events, n (%)	51 (52.0)
os	Median, months (95% CI)	ne (11.1, ne)
03	Events, n (%)	23 (23.5)



*Four patients were excluded due to baseline/post-baseline measurement not being available.

BOR, bestowerall response; CI, confidence interval; DOR, duration of response; FISH, fluorescent in situ hybridization; MET, mesenchymal—epithelial transition factor; MET amplification; ne, not evaluable; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR partial response; SD stable diseases TBX tissue biopsy.

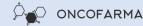


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WU-KONG6 study: **Sunvozertinib** for the treatment of NSCLC with EGFR exon20 insertion mutations

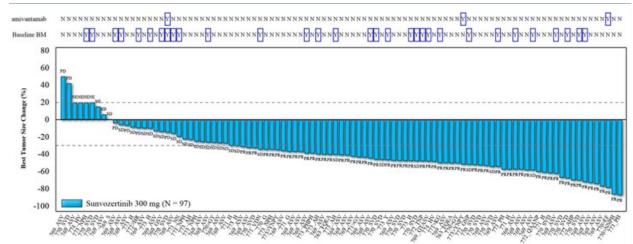
WU-KONG6 Study Design Primary endpoint: Key inclusion criteria: IRC assessed[†] ORR Locally advanced or metastatic Secondary end point: NSCLC DZD9008 IRC assessed[†] DoR Confirmed EGFR exon20ins in tumor tissues ORR (investigator assessed), PFS, DCR, tumor size changes Received 1 – 3 lines of prior systemic therapies 300 mg, QD OS Disease progressed on or after Safety and tolerability platinum-based chemotherapy Pharmacokinetics [†] According to RECIST 1.1. Tumor assessment every 6 weeks IRC, independent review committee; ORR, objective response rate; DoR, duration of response; PFS, progression free survival; DCR, disease control rate; OS, overall survival. Data cut-off for analysis: October 17, 2022

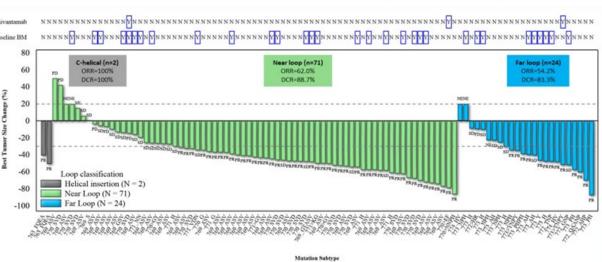
Wang M, ASCO 2023





WU-KONG6 study: efficacy and safety results





Anti-tumor Efficacy	N = 97
Tumor Response, n (%)	
Partial response (confirmed)	59 (60.8)
Stable disease	26 (26.8)
Progression disease	6 (6.2)
Not evaluable	6 (6.2)
Objective Response Rate (ORR), n (%)	59 (60.8)
(95% CI)	(50.4, 70.6)
P value	< 0.0001
Disease Control Rate (DCR), n (%)	85 (87.6)
(95% CI)	(79.4%, 93.4%)

Common TEAE by PT	N = 104 All Grade	N = 104 ≥ Grade 3
Diarrhea	70 (67.3)	8 (7.7)
Blood CPK increase	60 (57.7)	18 (17.3)
Rash	56 (53.8)	1 (1.0)
Anemia	51 (49.0)	6 (5.8)
Blood creatinine increase	39 (37.5)	0 (0.0)
Paronychia	34 (32.7)	2 (1.9)
Body weight decrease	30 (28.8)	1 (1.0)
White blood cell decrease	27 (26.0)	0 (0.0)
Lipase increase	27 (26.0)	2 (1.9)
Vomiting	25 (24.0)	1 (1.0)
Decreased appetite	25 (24.0)	2 (1.9)
Mouth ulceration	24 (23.1)	0 (0.0)

The IRC assessed ORR was 60.8%.

Safety profile of suvozertinib was similar to other EGFR TKIs. Majorities of Aes were G1 or G2





Efficacy

	Mobocertinib (N=114)	Amivantamab² (N=81)	Sunvozertinib (DZD9008) (N=97) WUKONG6 ³
Investigator assessed			
ORR, %	35%	36%	46.4%
Disease control rate, %	78%	73%	
Duration of response, mos	11.2 mo	-	
IRC assessed (95% CI)			
ORR, % (95% CI)	28% (20-37%)	40% (29-51%)	60.8% (50.4-70.6%)
Disease control rate, %	78%	74%	87.6%
Duration of response, months	17.5 mo	11.1 mo	64.4% responding at median fup of 5.6 mo.
PFS, months	7.3 mo	8.3 mo	**
Brain Mets, ORR (N=)	2	-	44% (N=25) ⁴

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EGFR Exon 20 Tx	Trial	Diarrhea	Rash	Other Major Notable
Amivantamab	CHRYSALIS ²	12% (2% G3+)	86% (4% G3+)	Infusion-related reaction 66% (8% G3+), Paronychia
Mobocertinib	EXCLAIM ¹	93% (16% G3+)	45% (0% G3+)	lipase, amylase, other GI, lipase, amylase elevation
Sunvozertinib	WUKONG64	67.3% (7.7% G3+)	53.8% (1% G3+)	CPK Elevation (57.7%, 17.3% G3+)

Other EGFR Exon 20 ins TKI with Putative CNS Penetration in Development

- TAS6417 (CLN-081)
- Blu-451
- Oric-114
- Furmonertinib

1. Zhou C. et al. *JAMA Oncol.* 2021 Oct 14;e214761.2. Park K, et al. *J Clin Oncol.* 2021;39:3391-3404.3. M. Wang et al ASCO 2023. ABS7 9002.4. L. Bazhenoza et al NACLC 2022.

*WUKONG 1,2,6 pooled at 300 mg dose ⁵





PRESENTED BY: Jonathan W. Riess, MD MS

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Abstract #9002







KRAS G12C mutation



A single arm, phase II study of sotorasib plus CT in advanced non-squamous, NSCLC patients with KRAS G12C mutation

SCARLET: study schema

Key inclusion criteria

- Advanced non-Sq, NSCLC
- With KRAS G12C
- Naïve for Cytotoxic chemotherapy and KRAS inhibitor
- With measurable lesion
- ECOG PS 0-1
- Asymptomatic CNS mets allowed

Sotorasib 960mg + CBDCA (AUC5)/ PEM 500 mg/m ² [q3W, 4 cycles] (n = 30) Maintenance phase Sotorasib + PEM [q3W, until PD]

- Primary endpoint; ORR by blinded independent central review (BICR)
- Secondary endpoints; DCR, PFS, DOR, OS and AEs
- Translational research; NGS analysis (tissue and plasma [at baseline, 3 wks, and PD])

Trial identifier: jRCT2051210086





RESENTED BY: HIroaki Akamatsu, MD, PhD.

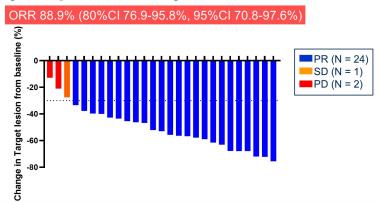




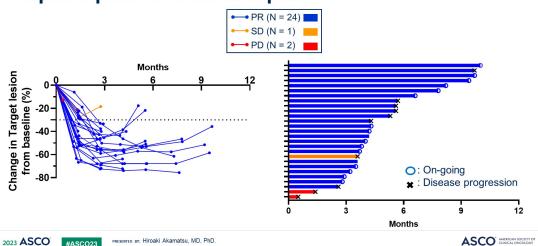


SCARLET study: efficacy and safety results

Primary endpoint: ORR by BICR



Spider plot / Swimmer's plot



Treatment-related AEs (≥ 15% or any severe cases)

	Any	Grade	>=G	rade 3	Gra	ide 1	Gra	ide 2	Gra	de 3	Gra	de 4	Gra	de 5
	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)
ny adverse event	29	100.0	21	72.4	1	3.4	7	24.1	14	48.3	6	20.7	1	3.4
Anaemia	21	72.4	11	37.9	2	6.9	8	27.6	10	34.5	1	3.4	0	0.0
PLT decreased	13	44.8	7	24.1	4	13.8	2	6.9	5	17.2	2	6.9	0	0.0
Neutrophil decreased	12	41.4	7	24.1	0	0.0	5	17.2	4	13.8	3	10.3	0	0.0
Decreased appetite	10	34.5	0	0.0	4	13.8	6	20.7	0	0.0	0	0.0	0	0.0
Nausea	10	34.5	0	0.0	3	10.3	7	24.1	0	0.0	0	0.0	0	0.0
WBC decreased	10	34.5	6	20.7	1	3.4	3	10.3	4	13.8	2	6.9	0	0.0
Malaise	8	27.6	0	0.0	5	17.2	3	10.3	0	0.0	0	0.0	0	0.0
Constipation	7	24.1	0	0.0	4	13.8	3	10.3	0	0.0	0	0.0	0	0.0
Diarrhoea	7	24.1	2	6.9	3	10.3	2	6.9	2	6.9	0	0.0	0	0.0
γ-GTP increased	6	20.7	1	3.4	4	13.8	1	3.4	1	3.4	0	0.0	0	0.0
Neutropenia	5	17.2	3	10.3	0	0.0	2	6.9	3	10.3	0	0.0	0	0.0
Hiccups	5	17.2	0	0.0	4	13.8	1	3.4	0	0.0	0	0.0	0	0.0
ALT increased	5	17.2	1	3.4	2	6.9	2	6.9	0	0.0	1	3.4	0	0.0
Blood Cre increased	5	17.2	0	0.0	4	13.8	1	3.4	0	0.0	0	0.0	0	0.0
AST increased	4	13.8	2	6.9	2	6.9	0	0.0	2	6.9	0	0.0	0	0.0
Hyperkalaemia	3	10.3	1	3.4	0	0.0	2	6.9	1	3.4	0	0.0	0	0.0
Lymph decreased	3	10.3	1	3.4	1	3.4	1	3.4	1	3.4	0	0.0	0	0.0
Cellulitis	2	6.9	1	3.4	0	0.0	1	3.4	1	3.4	0	0.0	0	0.0
Pneumonia	2	6.9	1	3.4	0	0.0	1	3.4	0	0.0	0	0.0	1	3.4
Thrombocytopenia	2	6.9	1	3.4	0	0.0	1	3.4	0	0.0	1	3.4	0	0.0
Anaphylactic reaction	1	3.4	1	3.4	0	0.0	0	0.0	1	3.4	0	0.0	0	0.0
Gastritis	1	3.4	1	3.4	0	0.0	0	0.0	1	3.4	0	0.0	0	0.0
Cholecystitis	1	3.4	1	3.4	0	0.0	0	0.0	1	3.4	0	0.0	0	0.0

5 100% (95%CI 47.8-100%) 7.5





PRESENTED BY: Hiroaki Akamatsu, MD, PhD.

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Negative (<1%)

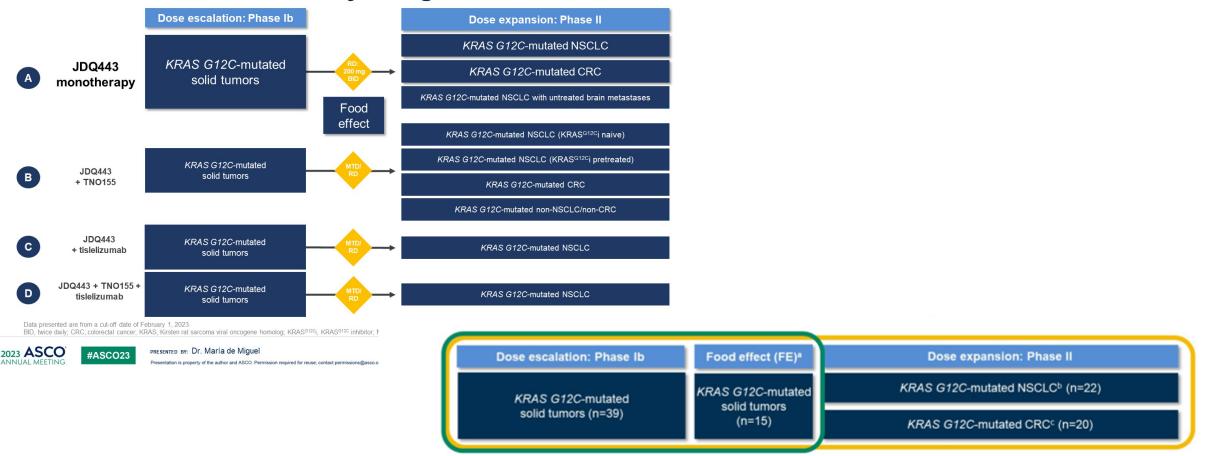






KontRast-01 update: safety and efficacy of JDQ443 in KRAS-mutated G12C solid tumors including NSCLC

KontRASt-01: Overall study design



Safety data set: All patients (N=96) across dose escalation, FE and dose expansion cohorts Efficacy data set: Patients with NSCLC (N=27) from dose escalation and FE cohorts

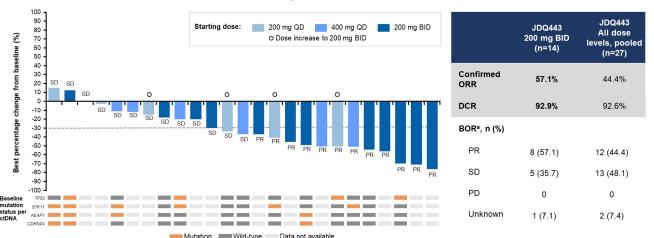
Pre-planned analyses in the Phase II NSCLC expansion group will be the subject of future presentations.





KontRast-01 update: safety results and efficacy results in KRAS G12C mutated NSCLC

NSCLC: Best overall response



Data presented with a cut-off date of February 1, 2023. Waterfall plot: 25 (92.6%) patients with NSCLC with available change from baseline tumor assessments, data are plotted out of n=27 patients with NSCLC who received JDQ443 single-agent. Patients were enrolled in dose escalation and food effect cohorts. *Best overall response per RECIST 1.1 based on investigator's assessment littera-platient dose escalation, per protocol, occurred in four patients from 200 mg QD to 200 mg BID. Mutation detection. plasma ctDNA at baseline, assay validated to 0.5% allele frequency. 95% Cl for offer. 295-42 for 200 mg BID. 25.5-47 for all dose levels.

BID. twice daily, Cl, confidence intervat, ctDNA, circulating tumor DNA; DCR, disease control rate, NSCLC, non-small cell lung cancer, ORR, overall response rate; PD, progressive disease, PR, partial response, QD, once daily, RECIST v1.1, Response Favaluation Criteria in Sold Tumors version 1.1; SD, stable disease.





PRESENTED BY: Dr. María de Miguel



Treatment-related adverse events (≥10% of all patients)

	JDQ443 200 mg QD escalation (n=10)		QD QD BID			JDQ443 BID esca FE + exp (n=	alation + pansion	All dose levels, pooled (N=96)		
	All grades	Grade ≥3	All grades	Grade ≥3	All grades	Grade ≥3	All grades	Grade ≥3	All grades	Grade ≥3
Number of patients with at least one event, n (%)	8 (80.0)	2 (20.0)	8 (72.7)	1 (9.1)	6 (85.7)	5 (71.4)	51 (75.0)	4 (5.9)	73 (76.0)	12 (12.5)
Fatigue	5 (50.0)	2 (20.0)	3 (27.3)	-	4 (57.1)	1 (14.3)	11 (16.2)	_	23 (24.0)	3 (3.1)
Nausea	3 (30.0)	-	1 (9.1)	-	-	-	12 (17.6)	-	16 (16.7)	-
Diarrhea	2 (20.0)	-	2 (18.2)	-	1 (14.3)	-	9 (13.2)	-	14 (14.6)	-
Peripheral edema	2 (20.0)	-	2 (18.2)	-	1 (14.3)	-	8 (11.8)	-	13 (13.5)	-
Neutropenia	-	-	1 (9.1)	-	2 (28.6)	1 (14.3)	8 (11.8)	2 (2.9)	11 (11.5)	3 (3.1)
Vomiting	2 (20.0)	-	1-1	-	-	-	8 (11.8)	-	10 (10.4)	-
Anemia	2 (20.0)	-	2 (18.2)	-	-	-	6 (8.8)	-	10 (10.4)	-

- TRAEs were low-frequency, low-grade events
- There were no Grade 4 or 5 TRAEs
- No nausea/vomiting/diarrhea higher than Grade 2

Data presented with a cut-off date of February 1, 2023. All AEs were graded per CTCAE version 5.0. Two patients experienced treatment-releted SAEs: Grade 3 photosensitivity reaction and Grade 2 rash enthematous: in one patient, for a few patients on experience in a coursed at 30 ong BID. Treatment was discontinued by three patients for treatment-related events: Two patients due to elevated ALT and one patient due to nausea, darinte, and vomiting. Seven patients had dose reductions across the following groups: 200 mg DID (n=2), 200 mg BID (n=2), and 300 mg BID (n=3). Two patients from the 200 mg BID group had dose reductions: One patient due to Grade 3 ALT elevation and Grade 3 AST elevation and Grade 2 patients are patient as the contract of the patient of the contract patient and the patient due to Grade 3 ALT elevation and Grade 3 AST elevation and Grade 3 AST elevation and Grade 2 patients are patient due to Grade 3 as a few patients are patient due to Grade 3 as a few patients are patient due to Grade 3 as a few patients are patient due to Grade 3 as a few patients are patient due to Grade 3 as a few patients are patients and patient due to Grade 3 as a few patients are patient due to Grade 3 as a few patients are patients are patients and patient due to Grade 3 as a few patients are patients and patients are patients are patients as a few patients are patients are patients and patients are patients are patients and patients are patients are patients are patients are patients and patients are patients are patients are patients are patients are patients and patients are pati





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Patients with AE (%)

75

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KNOWLEDGE CONQUERS CANCER

TRAEs, JDQ443 200 mg BID (n=68)

Nausea

Periphera

Neutropenia

Vomitin





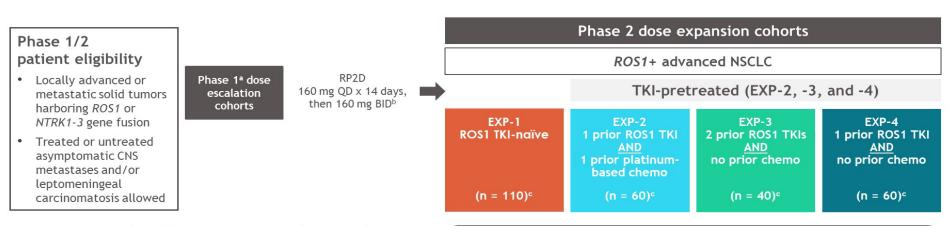
ROS1 rearrangement



TRIDENT -1 trial: phase 1/2 repotrectinib in ROS+ NSCLC

TRIDENT-1: repotrectinib in ROS1+ NSCLC with/without CNS metastases

Overview of the phase 1/2 TRIDENT-1 trial



- MRI was mandated for all patients with and without baseline brain metastases in phase 2 at screening and at protocol-specified intervals until progression
- Primary efficacy population includes patients pooled from phases 1e and 2 that began repotrectinib treatment at least 8 months before data cutoff date of June 20, 2022

Phase 2 (ROS1+ advanced NSCLC cohorts)

Primary endpoint

cORR by BICR using RECIST v1.1

Key secondary endpoint

icORR by mRECIST v1.1 in patients with measurable brain metastases

Data cutoff date: June 20, 2022.

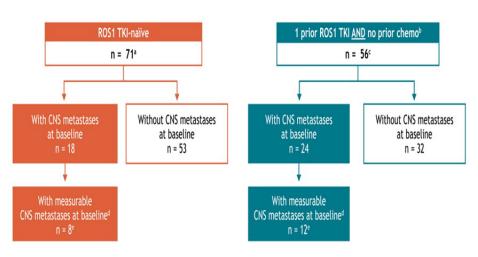
^aPhase 1 primary endpoints: DLT, MTD, RP2D. ^bBased on tolerability. ^cN's for expansion cohorts indicate enrollment targets. ^dMRI brain scans performed at Cycle 3 day 1 (± 7 days), every 2 cycles (± 7 days) up to Cycle 19 and then every 3 cycles (± 7 days) up to Cycle 37 and then every 4 cycles (± 7 days); brain CT was acceptable if brain MRI was contraindicated. ^ePatients from phase 1 received 40 mg OD to 160 mg OD and 160 mg BID. ^fBy RECIST v1.1.





TRIDENT trial: Systemic efficacy of repotrectinib

Systemic Efficacy of repotrectinib was comparable between patients with CNS metastasis and without in both TKI naïve and TKI pretreated by BICR



	ROS1 naïve (n=71)		ROS1 pretreated (n=56)	
	with CNS v	vithout CNS	with CNS	without CNS
	(n=18)	(n=53)	(n=24)	(n=32)
ORR	89%	75%	33%	41%
PFS	87%	77%	57%	75%
	(PFS at 12m)	(PFS at12m)	(PFS at 6m)	(PFS at 6m)

Lin J et al ASCO 2023

25.3% (18/71) BM 11.2% (8/71) meas BM 42.8% (24/56) BM 21.4% (12/56) meas BM

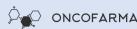




PRESENTED BY: Myung-Ju Ahn, M.D. Samsung Medical Center Presentation is property of the author and ASCO. Permission required for reuse; contact permissions@asco.org.







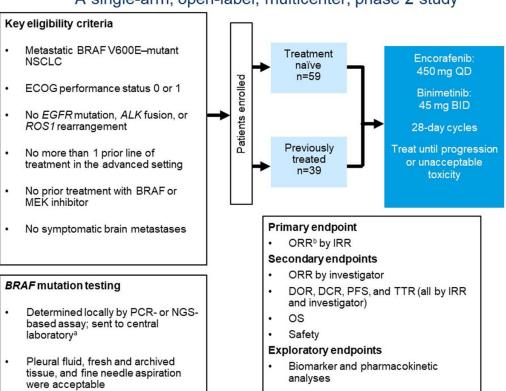
BRAF V600E mutation



PHAROS study: encorafenib plus binimetinib in patients with BRAF V600E-mutant metastatic NSCLC

- The combination of encorafenib (BRAF inhibitor) plus binimetinib (MEK inhibitor) has demonstrated clinical efficacy with an acceptable safety profile in patients with metastatic BRAF V600E/K-mutant melanoma¹
- For patients with metastatic BRAF V600E-mutant NSCLC the combination of dabrafenib and trametinib was approved by the US FDA and is a current standard of care ²
 - This approval was based on the results of a single-arm, phase 2 study that showed meaningful antitumor activity and a manageable safety profile^{3,4}
 - In treatment-naïve and previously treated patients, the ORR by IRR was 64% and 63%, respectively
 - The median DOR by IRR was 15.2 months and 9.0 months, respectively
- Given the observed efficacy and safety profile of encorafenib plus binimetinib in patients with BRAF V600E/K–mutant metastatic melanoma, this combination therapy was assessed in patients with metastatic BRAF V600E–mutant NSCLC

PHAROS (NCT03915951): A single-arm, open-label, multicenter, phase 2 study



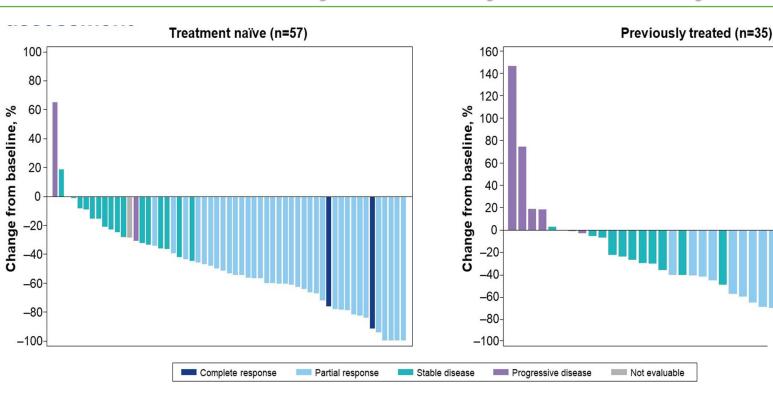
BID, twice daily; DCR, disease control rate; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; IRR, independent radiology review; ORR, objective response rate; NGS, next-generation sequencing; OS, overall survival; PCR, polymerase chain reaction; PFS, progression-free survival; QD, once daily; TTR, time to response.

BRAF V600 mutations were retrospectively confirmed by FoundationOne CDx (Foundation Medicine, Cambridge, MA). DAccording to RECIST 1.1.

1. Dummer R, et al. Lancet Oncol. 2018;19(5):603-615. 2. Dabrafenib prescribing information. June 2022. 3. Planchard D, et al. Lancet Oncol. 2016;17(7):984-993. 4. Planchard D, et al. Lancet

2

PHAROS study: efficacy and safety results



Encorafenib plus binimetinib in metastatic BRAF-V600E mutant NSCLC Incidence of TRAEs of any grade >10% in all patients

		FI		
	Overall (N=98)			
	Any grade	Grade 3	Grade 4	
Any TRAEs, n (%)a	92 (94)	37 (38)	3 (3) ^b	
Nausea	49 (50)	3 (3)	0	
Diarrhea	42 (43)	4 (4)	0	
Fatigue	31 (32)	2 (2)	0	
Vomiting	28 (29)	1 (1)	0	
Anemia	18 (18)	3 (3)	0	
Vision blurred	17 (17)	1 (1)	0	
Constipation	13 (13)	0	0	
ALT increased	12 (12)	5 (5)	0	
AST increased	12 (12)	7 (7)	0	
Pruritus	12 (12)	0	0	
Blood creatine phosphokinase increased	11 (11)	0	0	
Edema peripheral	11 (11)	0	0	

Note: Any-grade abdominal pain, alopecia, asthenia, and dry skin occurred in 10% of patients; any-grade pyrexia occurred in 8% of patients

ALT, alanine aminotransferase; AST, aspartate aminotransferase; TRAE, treatment-related adverse event.

One patient died due to intracranial hemorrhage, which was assessed as treatment related by the investigator. Grade 4 TRAEs were colitis, disseminated intravascular coagulation, increased y-glutamyl transferase, and hyponatremia.





FGFR alterations



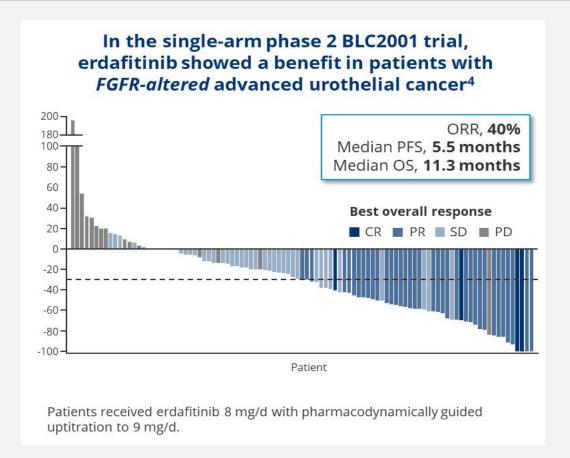
Erdafitinib is a Pan-FGFR Inhibitor With Activity in Metastatic Urothelial Carcinoma

 FGFRalt are observed in ~20% of advanced or mUC and may function as oncogenic drivers^{1,2}



Erdafitinib is an oral selective pan-FGFR tyrosine kinase inhibitor³

- Erdafitinib was granted accelerated approval in the United States and is approved in 17 other countries to treat locally advanced or mUC in adults with susceptible FGFR3/2alt who have progressed after platinum-containing chemotherapy⁴⁻⁶
- **THOR** is a confirmatory, randomized phase 3 study:
 - Cohort 1 assessed whether erdafitinib improved survival over chemotherapy in patients with FGFRalt mUC who progressed on or after ≥1 prior treatment that included anti-PD-(L)1



FGFR, fibroblast growth factor receptor; FGFRalt, FGFR alterations; mUC, metastatic urothelial carcinoma; ORR, overall response rate; OS, overall survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PFS, progression-free survival.

^aPatients received erdafitinib 8 mg/d with pharmacodynamically guided uptitration to 9 mg/d.



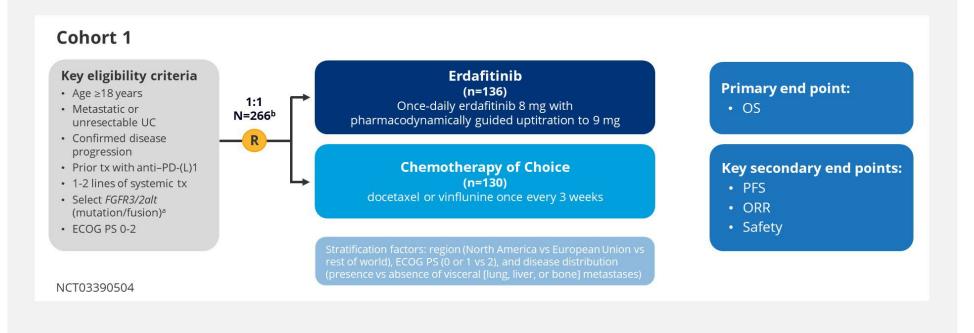




^{1.} Necchi A, et al. Eur Urol Focus. 2019;5:853-586; 2. di Martino É, et al. Future Oncol. 2016;12:2243-2263; 3. Perera TPS, et al. Mol Cancer Ther. 2017;16:1010-1020; 4. Loriot Y, et al. N Engl J Med. 2019;381:338-348; 5. BALVERSA® (erdafitinib) [package insert]. Horsham, PA: Janssen Products, LP; 2023; 6. Siefker-Radtke AO, et al. Lancet Oncol. 2022;23:248-258.

Phase 3 THOR study: erdafitinib vs CT in patients with advanced UC with selected FGFR alterations

Phase 3 THOR Study: Erdafitinib Versus Chemotherapy of Choice in Patients With Advanced Urothelial Cancer and Selected FGFR Aberrations



aMolecular eligibility can be confirmed using either central or local historical FGFR test results (Qiagen assay). If a patient was enrolled based on local historical testing, a tissue sample must still be submitted at the time of enrollment for retrospective confirmation (by central lab) of FGFR status. Tumors must have ≥1 of the following translocations: FGFR2-BICC1, FGFR2-CASP7, FGFR3-TACC3_V1, FGFR3-TACC3_V3, FGFR3-BAIAP2L1; or 1 of the following FGFR3 gene mutations: R248C, S249C, G370C, Y373C.

^bNumber of patients randomized at the time of the interim analysis (data cutoff January 15, 2023).

ECOG PS, Eastern Cooperative Oncology Group performance status; FGFR, fibroblast growth factor receptor; FGFR3/2alt, FGFR3/2 alterations; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; Q3W, every 3 weeks; tx, treatment; UC, urothelial cancer.

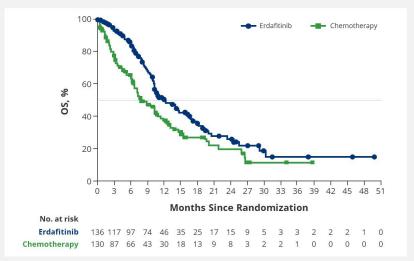






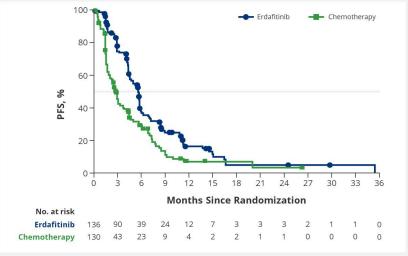
Phase 3 THOR study: efficacy results

Overall Survival for Erdafitinib Was Superior to Investigator's Choice of Chemotherapy



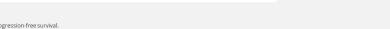
- Median follow-up was 15.9 months
- Median OS was 12.1 months for erdafitinib versus 7.8 months for chemotherapy
- Erdafitinib reduced the risk of death by 36% versus chemotherapy
- HR, 0.64 (95% CI, 0.47-0.88;
 P = 0.005)^a
- Based on these interim analysis results, the IDMC recommended to stop the study, unblind data, and cross over patients from chemotherapy to erdafitinib

Erdafitinib Significantly Improved Progression-Free Survival Versus Chemotherapy

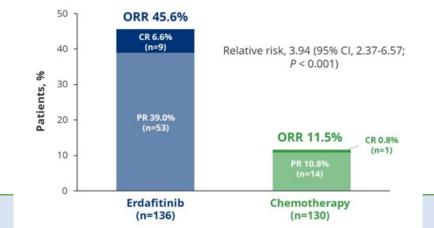


- Median PFS was 5.6 versus 2.7 months for erdafitinib versus chemotherapy
- Erdafitinib reduced the risk of progression or death by 42% versus chemotherapy
- HR, 0.58 (95% CI, 0.44-0.78; P = 0.0002)

l, confidence interval; HR, hazard ratio; PFS, progression-free survival.

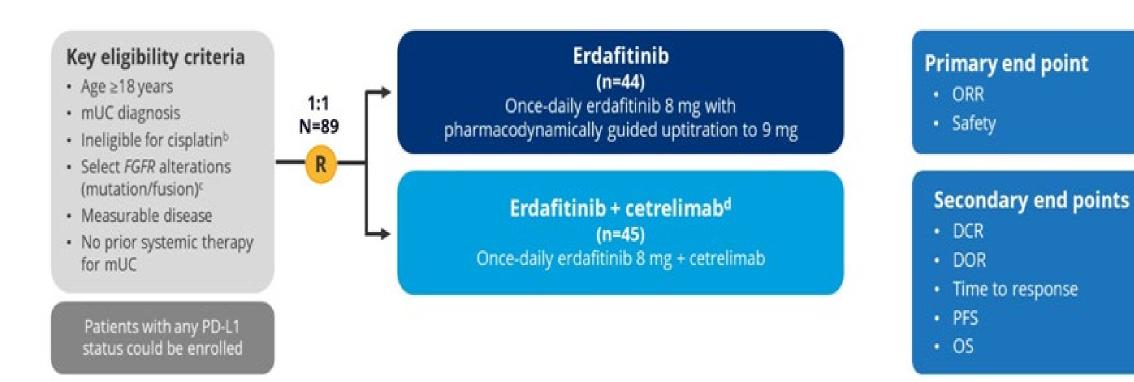


CI, confidence interval; HR, hazard ratio; IDMC, independent data monitoring committee; Of a The significance level for stopping for efficacy was p=0.019, corresponding to a HR of 0.69.





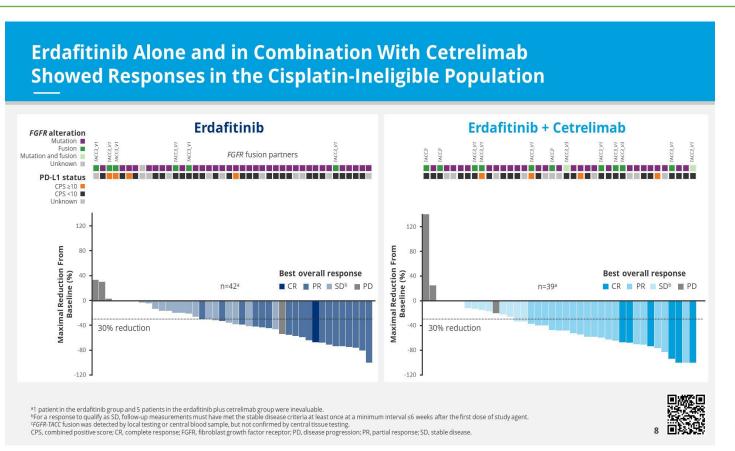
NORSE phase II study: erdafitinib vs erdafitinib + cetrelimab in mUC inelegible for cisplatin with FGFR alterations

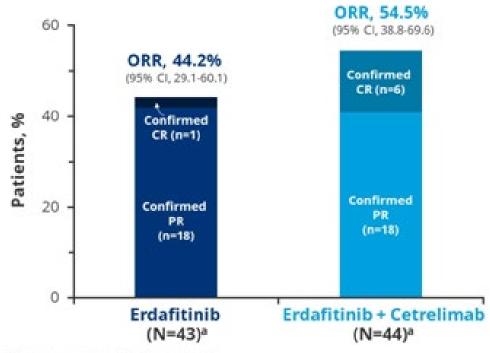


Radtke , ASCO 2023



NORSE study: efficacy results





Responses are investigator assessed.



HER2 alterations



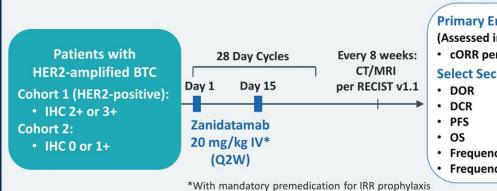
HERIZON BTC-01: Zanidatamab in HER2 ampl BTC

HERIZON-BTC-01 Study Design

Phase 2b study of zanidatamab monotherapy in patients with HER2-amplified BTC

Key Eligibility Criteria

- · Locally advanced or metastatic BTC¹
- Tissue required to confirm HER2 status by central lab
- Progressed after treatment with a gemcitabine-containing regimen
- No prior HER2-targeted therapies
- ECOG PS of 0 or 1



Primary Endpoint:

(Assessed in Cohort 1)

cORR per ICR

Select Secondary Endpoints:

- Frequency & severity of AEs Frequency of SAEs & deaths

¹ Excludes ampullary

AE = adverse event; cORR = confirmed objective response rate; CT = computed tomography scan; DCR = disease control rate; DOR = duration of response; ECOG PS = Eastern Cooperative Oncology Group performance status; ICR = independent central review; IHC = immunohistochemistry; IRR = infusion-related reaction; IV = intravenous; MRI = magnetic resonance imaging; OS = overall survival; Q2W = every two weeks; RECIST=Response Evaluation Criteria in Solid Tumors; SAE = serious adverse event.





PRESENTED BY: Shubham Pant, MD







HERIZON_BTC-01: Zanidatamab in HER2 ampl BTC

Disease Response in Patients with HER2-positive BTC (Cohort 1)

16 patients had ongoing responses at the time of data cutoff By ICR By Investigator **Assessment** Assessment (N = 80)(N = 80)cORR, % (95% CI) 41.3 (30.4, 52.8) 41.3 (30.4, 52.8) Confirmed BOR, n (%) 1 (1.3) 4 (5.0) 32 (40.0) 29 (36.3) SD 22 (27.5) 21 (26.3) PD 24 (30.0) 25 (31.3) 1 (1.3) 1 (1.3) DCR [CR + PR + SD], % (95% CI) 68.8 (57.4, 78.7) 67.5 (56.1, 77.6) CBR [CR + PR + (SD ≥ 6 months)], % (95% CI) 47.5 (36.2, 59.0) 47.5 (36.2, 59.0)

CBR = clinical benefit rate; CI = confidence interval; CR = complete response; DCR = disease control rate; NE = not evaluable; PD = progressive disease; PR = partial response; SD = stable disease.

¹ NE = one patient died prior to first post-baseline tumor assessment.

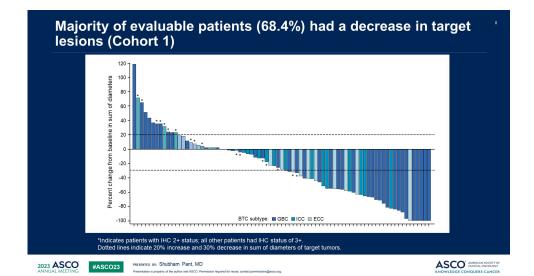


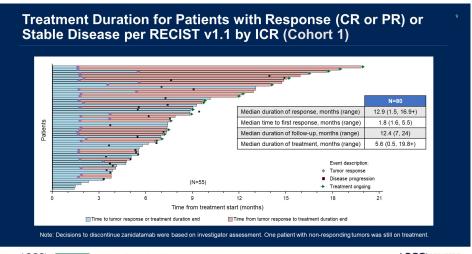


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#ASCO2

PRESENTED BY: Shubhar





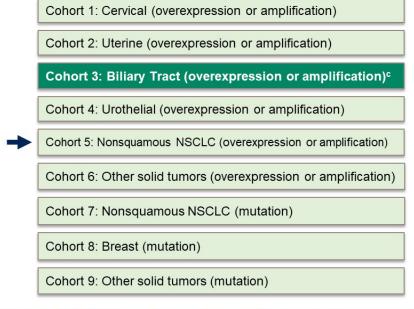
Tucatinib and trastuzumab in HER2+ solid tumors

Study Design

• SGNTUC-019 (NCT04579380) is an open-label phase 2 basket study evaluating antitumor activity and safety of tucatinib and trastuzumab^a in patients with HER2-altered solid tumors

Key eligibility criteria

- HER2 overexpression, amplification, or mutation per IHC/ISH or NGS testing determined locally
- Unresectable locally advanced or metastatic cancer
- Baseline measurable disease
- Previously treated with ≥1 prior systemic treatment for locally advanced or metastatic disease
- No prior HER2-directed therapy^b



Outcomes

Primary endpoint:
Confirmed ORR per
RECIST 1.1 by
investigator

Secondary endpoints: Safety, DCR, DOR, PFS, and OS

a Tucatinib dose: 300 mg PO BID; trastuzumab dose: 6 mg/kg IV Q3W (loading dose of 8 mg/kg C1D1); each treatment cycle is 21 days. b Except for patients with uterine serous carcinoma or HER2-mutated gastroesophageal cancer without HER2-overexpression or amplification. c The cohort aimed to enroll up to 30 patients, a number calculated per the 90% exact CI given a range of expected confirmed ORR of 10% to 30%.

BID, twice daily; C1D1, Day 1 of Cycle 1; DCR, disease control rate; DOR, duration of response; IHC, immunohistochemistry; ISH, in situ hybridization; IV, intravenous; NGS, next-generation sequencing; NSCLC, non-small cell lung cancer;

ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PO, orally; Q3W, every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumors.





PRESENTED BY: Yoshiaki Nakamura, MD, PhD







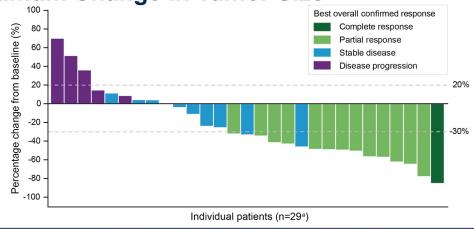
Cohort 3: Tucatinib and trastuzumab in HER2+ BTC

Response to Treatment

		Total (N=30)	
Best overall response, n (%)	CR	1 (3.3)	
	PR	13 (43.3)	
	SD	9 (30.0)	
	PD	6 (20.0)	
	Not available	1 (3.3)ª	
cORR, % (90% CI)		46.7 (30.8-63.0)	
Median DOR, months (90% CI)		6.0 (5.5-6.9)	
DCR, n (%)		23 (76.7)	

CORR, confirmed objective response rate; CR, complete response; DCR, disease control rate; DOR, duration of response; PD, progressive disease; PR, partial response; SD, stable disease

Maximum Change in Tumor Size



Twenty-one patients (70.0%b) had a reduction in tumor size Median time to first response was 2.1 months (range, 1.2-4.3)

a Excludes 1 patient with no postbaseline response assessment, b Percentage was calculated with 30 as the denominator





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Antibody drug coniugates (ADC)



Antibody-Drug Conjugates: New kids on the block

Important Properties of the ADC Components and Target Antigen

Antigen

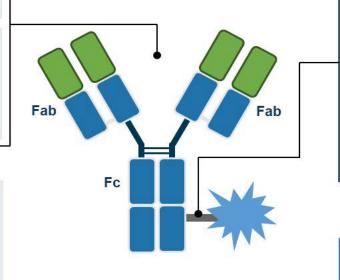
- High homogeneous expression on tumor
- Low or no expression on healthy tissues
- High affinity and avidity for antibody recognition

Antibody

- High affinity and avidity for tumor antigen
- Chimeric or humanized to decrease immunogenicity
- Long half-life and high molecular weight

Cytotoxic Payload

- Highly potent agents:
 - Calicheamicin
 - Maytansine derivative (DM1 or DM4)
 - Auristatin (MMAE or MMAF)
 - SN-38
 - DXd topoisomerase I inhibitor
- Optimal DAR (range: 2 to 8)



Linker

- Stable in circulation
- Efficient release of payload at target site
- Prevents premature release of payload at nontarget tissue
- Efficient linker technology (cleavable vs noncleavable)
- Site of conjugation
- DAR affects drug distribution and pharmacokinetics

Cleavable Linkers

Depend on physiological conditions: pH, proteolysis, or high intracellular glutathione **Noncleavable Linkers** Depend on lysosomal degradation

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PRESENTED BY: Benjamin Levy, MD

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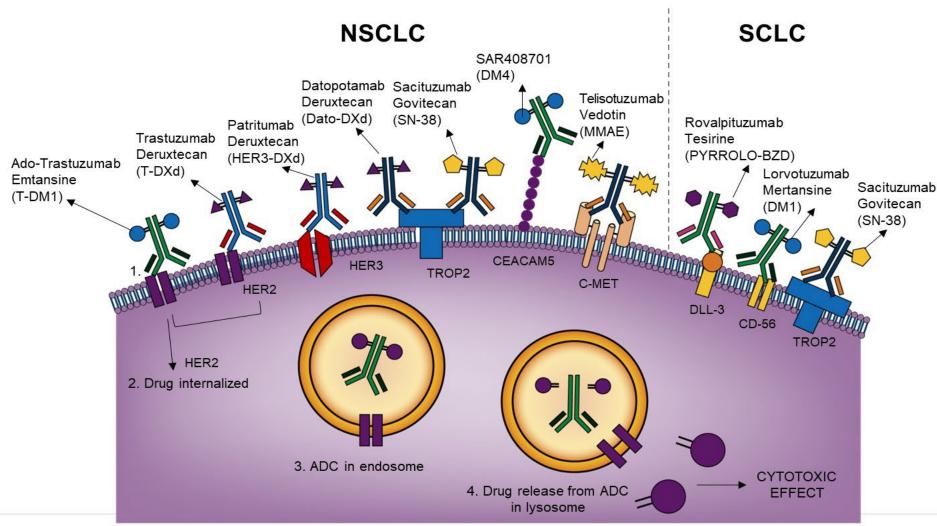
Chau CH, et al. Lancet. 2019;394:793-804.







The Antigen: Ideal Characteristics for ADCs







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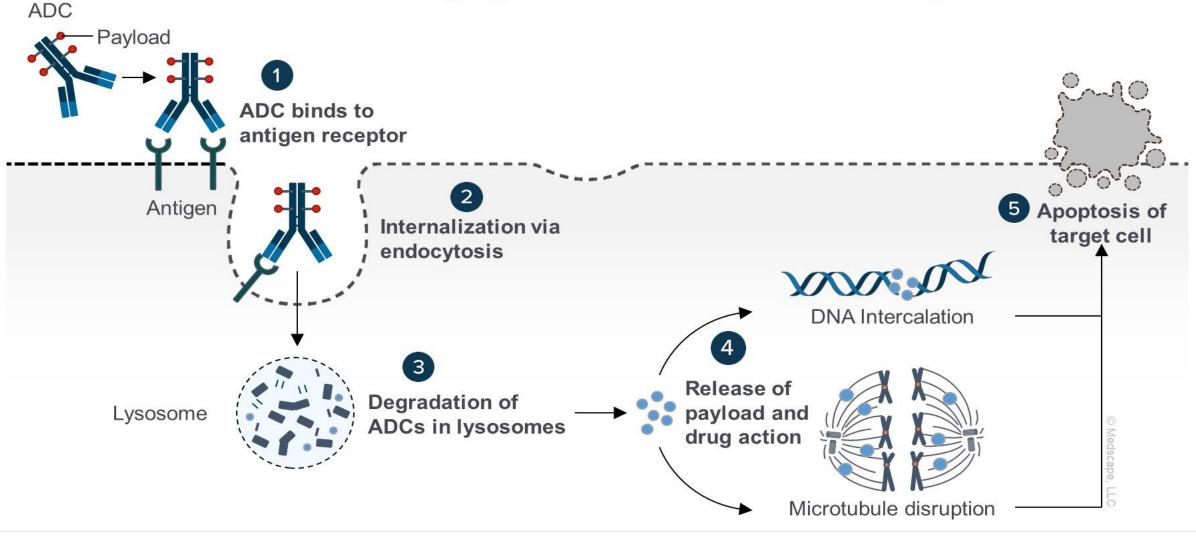
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Desai A et al. Lung Cancer. 2022





Antibody-Drug Conjugates Mechanism 1: mAB engagement of cell surface antigen







PRESENTED BY:

Chau CH, et al. Lancet. 2019







TROPION-lung02: datopotamab deruxtecan plus pembrolizumab with or without platinum chemotherapy in advanced NSCLC

TROPION-Lung02: Phase 1b Study

- TROPION-Lung02 is the first study evaluating Dato-DXd + pembrolizumab ± platinum CT^a in advanced NSCLC without actionable genomic alterations^b (NCT04526691)
 - The safety of the Dato-DXd + pembrolizumab doublet was established prior to evaluation of the platinumcontaining triplet
 - The safety of Dato-DXd 4-mg/kg combinations was established prior to evaluation of 6-mg/kg combinations

Key eligibility criteria

- Advanced/metastatic NSCLC
- Dose escalation^c: ≤2 lines of prior therapy^d
- Dose expansion
 - ≤1 line of platinum-based CT (cohorts 1 and 2)^d
 - Treatment naive (cohort 2; enrollment after Jun 30, 2022)^d
 - Treatment naive (cohorts 3-6)d

	Dato-DXd IV Q3W	+	pembro IV Q3W	+ platinum CT
Cohort 1 (n=20):	4 mg/kg	+	200 mg	Doublet
Cohort 2 (n=44):	6 mg/kg	+	200 mg	- Doublet
Cohort 3 (n=20):	4 mg/kg	+	200 mg	+ carboplatin AUC 5
Cohort 4 (n=30):	6 mg/kg	+	200 mg	+ carboplatin AUC 5
Cohort 5 (n=12):	4 mg/kg	+	200 mg	+ cisplatin 75 mg/m ²
Cohort 6 (n=10):	6 mg/kg	+	200 mg	+ cisplatin 75 mg/m ²

- Primary objectives: safety and tolerability
- Secondary objectives: efficacy, pharmacokinetics, and antidrug antibodies

Triplet

Data cutoff: April 7, 2023.

AUC, area under the curve; CT, chemotherapy; Dato-DXd, datopotamab deruxtecan; DLT, dose-limiting toxicity; IV, intravenous; NSCLC, non-small cell lung cancer; pembro, pembrolizumab; Q3W, every 3 weeks.

^a Administered sequentially at the same visit. ^b Patients with known actionable *EGFR*, *ALK*, *ROS1*, *NTRK*, *BRAF*, *RET*, or *MET* mutations or alterations in other actionable oncogenic driver kinases were not eligible for this study. Testing for *EGFR* and *ALK* alterations was not required for patients with squamous histology who were smokers or ≥40 years of age. ^c The first 3 to 6 patients in each cohort were enrolled to confirm acceptable safety/DLT rate; the remaining patients are considered part of dose expansion (for which enrollment was ongoing at the time of data cutoff). ^d Prior therapy requirements are for treatment in the advanced/metastatic setting.



#ASCO23

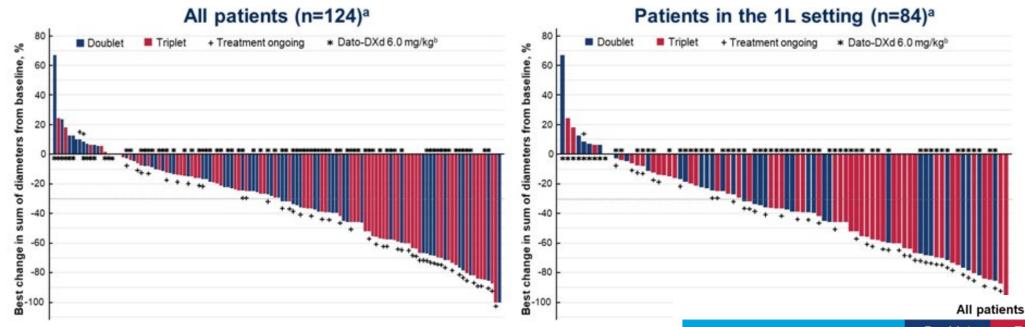
PRESENTED BY: Yasushi Goto, MD, PhD







TROPION-lung02: efficacy results



Data cutoff: April 7, 2023.

1L, first line

Goto Y, ASCO 2023

	All patients		ratients in 1L	
Response ^a	Doublet	Triplet	Doublet	Triplet
	(n=61) ^b	(n=71) ^b	(n=34) ^b	(n=53) ^b
Confirmed + pending ORR, n (%) ^{c,d} [95% CI]	23 (38)	35 (49)	17 (50)	30 (57)
	[26-51]	[37-61]	[32-68]	[42-70]
Confirmed + pending BOR, n (%) ^{d,e} Confirmed CR Pending CR ^d Confirmed PR Pending PR ^d	0	1 (1)	0	1 (2)
	0	0	0	0
	21 (34)	34 (48)	15 (44)	29 (55)
	2 (3)	0	2 (6)	0
SD, n (%) ^f	30 (49)	27 (38)	16 (47)	18 (34)
DCR, n (%)9	51 (84)	62 (87)	31 (91)	48 (91)
Median DOR, months [95% CI]	NE	NE	NE	NE
	[8.8-NE]	[5.8-NE]	[5.5-NE]	[5.7-NE]

Preliminary PFS in all patients, median (95% CI), months: doublet, 8.3 (6.8-11.8); triplet 7.8 (5.6-11.1)^h





Patients in 11

Patients with no baseline target lesions or no postbaseline tumor assessments were excluded from the waterfall plots. Planned dose level.

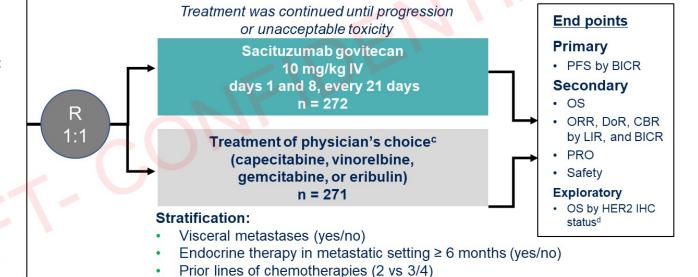
TROPICS-02 study: sacituzumab govitecam

TROPiCS-02: A Phase 3 Study of SG in Patients with HR+/HER2- mBC¹

Metastatic or locally recurrent inoperable HR+/HER2- (IHC0, IHC1+, or ICH2+/ISH-) breast cancer that progressed after^{a,b}:

- At least 1 endocrine therapy, taxane, and CDK4/6 inhibitor in any setting
- At least 2, but no more than 4, lines of chemotherapy for metastatic disease
- Measurable disease by RECIST 1.1

N = 543



ASCO/CAP, American Society of Clinical Oncology/College of American Pathologists; BICR, blinded independent central review; CBR, clinical benefit rate; CDK, cyclin-dependent kinase; DoR, duration of response; HER2—, human epidermal growth factor receptor 2-negative; HR+, hormonal receptor-positive; HC, immunohistochemistry; ISH, in situ hybridization; IV, intravenously; LIR, local investigator review; ORR, objective response rate; OS, overall survival; PFS, progression-free survival, PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival, PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival, PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival, PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival, PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival; PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival; PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival; PRO, patient-reported outcomes; R, randomized; RECIST, Response rate; OS, overall survival; PFS, progression-free survival; PFS, progression-free

*ClinicalTrials.gov. NCT03901339. *Disease histology based on the ASCO/CAP criteria. *Single-agent standard-of-care treatment of physician's choice was specified prior to randomization by the investigator. *HER2-low was defined as IHC score of 1+, or score of 2+ with negative ISF result; HER2 IHC0 was defined as IHC score of 0. 1. Rugo HS, et al. J Clin Oncol. 2022;40:3365-3376.





PRESENTED BY: Sara M. Tolaney, MD, MPH







TROPICS-02 study: efficacy results

Progression-Free Survival



SG continued to demonstrate improvement in PFS vs TPC at longer follow-up, with 35% reduction in risk of disease progression or death, and a higher proportion of patients remained alive and progression-free at each landmark





PRESENTED BY: Sara M. Tolaney, MD, MPH

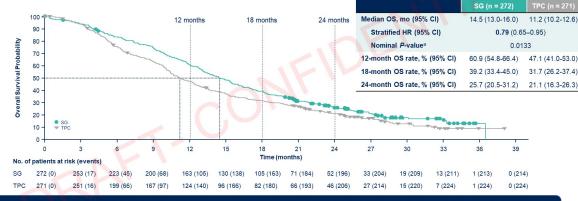
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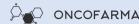
PRESENTED BY: Sara M. Tolaney, MD, MPH

Overall Survival



SG continued to demonstrate improvement in OS vs TPC at longer follow-up, with 21% reduction in risk of death and a higher proportion of patients remaining alive at each landmark

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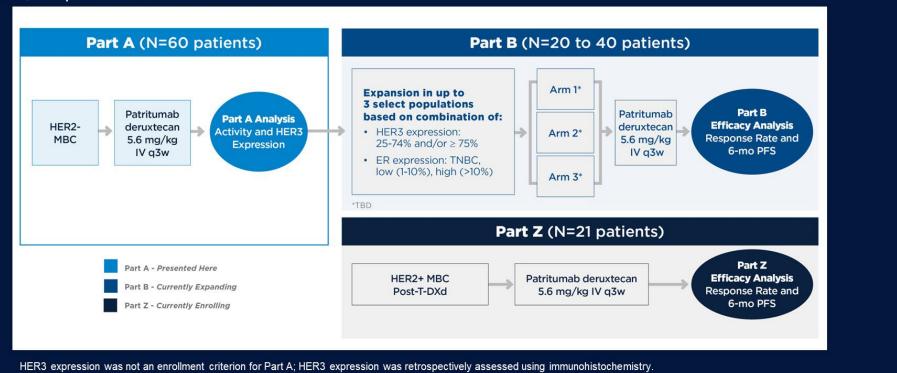




A phase II study of **Patritumab-Dxd in patients with metastatic** breast cancer

Study Design

- This Phase II study (NCT04699630) examines the efficacy and safety of patritumab deruxtecan administered in patients with locally advanced or metastatic BC.
- Here, we present data for Part A.







PRESENTED BY: Erika P. Hamilton, MD







A phase II study of HER3-Dxd in patients with metastatic breast cancer

Response – Investigator Assessment

	Membrane HER3 ≥75% (N=30)	Membrane HER3 25%- 74% (N=13)	Membrane HER3 <25% (N=4)	Unknown Membrane HER3 Expression* (N=13)	Total (N=60) N (%)
Best Overall Response, n (%)					
Complete response (CR)	0	0	0	0	0
Partial response (PR)	10 (33.3)	6 (46.2)	2 (50.0)	3 (23.1)	21 (35.0)
Stable disease (SD)	13 (43.3)	4 (30.8)	1 (25.0)	8 (61.5)	26 (43.3)
Progressive disease (PD)	5 (16.7)	1 (7.7)	1 (25.0)	0	7 (11.7)
Missing/no post baseline	2 (6.7)	2 (15.4)	0	2 (15.4)	6 (10.0)
ORR, n (%)	10 (33.3)	6 (46.2)	2 (50.0)	3 (23.1)	21 (35.0)
95% CI	(17.3, 52.8)	(19.2, 74.9)	(6.8, 93.2)	(5.0, 53.8)	(23.1, 48.4)
CBR, n (%)**	12 (40.0)	7 (53.8)	2 (50.0)	5 (38.5)	26 (43.3)
95% CI	(22.7, 59.4)	(25.1, 80.8)	(6.8, 93.2)	(13.9, 68.4)	(30.6, 56.8)
DoR ≥6 months, n (%) [†]	4 (40.0)	2 (33.3)	2 (100)	2 (66.7)	10 (47.6)

*HER3 results available for 47 pts. Remaining 13 pts had tissue not available/testing result unevaluable.
**CBR=CR. PR. or SD ≥180 days

Among patients with heavily pretreated BC, all-comer ORR was 35%, overall CBR was 43%, and DoR was at least 6 months in nearly half of all patients who responded.

Abbreviations; CBR, clinical benefit rate; CI, confidence interval; DoR, duration of response; ORR, objective response rate.

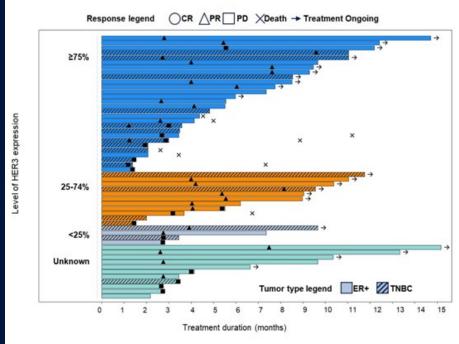
Data cutoff: September 6, 2022.





PRESENTED BY: Erika P. Hamilton, MD







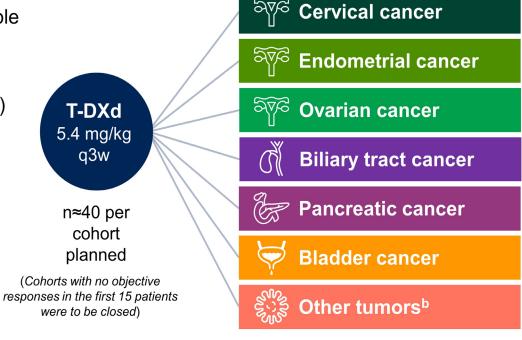
[†]Percentage calculation uses the number of pts who responded as the denominator.



DESTINY-PanTumor02: A Phase 2 Study of T-DXd for HER2-Expressing Solid Tumors

An open-label, multicenter study (NCT04482309)

- Advanced solid tumors not eligible for curative therapy
- 2L+ patient population
- HER2 expression (IHC 3+ or 2+)
 - Local test or central test by HercepTest if local test not feasible (ASCO/CAP gastric cancer guidelines¹)^a
- Prior HER2-targeting therapy allowed
- ECOG/WHO PS 0–1



Primary endpoint

 Confirmed ORR (investigator)^c

Secondary endpoints

- DOR^c
- DCR^c
- PFS^c
- OS
- Safety

Data cut-off for analysis:

Nov 16, 2022

^aPatients were eligible for either test. All patients were centrally confirmed. ^bPatients with tumors that express HER2, excluding tumors in the tumor-specific cohorts, and breast cancer, non-small cell lung cancer, gastric cancer, and colorectal cancer. ^cInvestigator-assessed per Response Evaluation Criteria In Solid Tumors version 1.1.

2L, second-line; ASCO, American Society of Clinical Oncology; DCR, disease control rate; CAP, College of American Pathologists; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PS, performance status; q3w, every 3 weeks; T-DXd, trastuzumab deruxtecan; WHO, World Health Organization.

1. Hofmann M, et al. *Histopathology* 2008;52(7):797–805.





PRESENTED BY: Funda Meric-Bernstam, MD



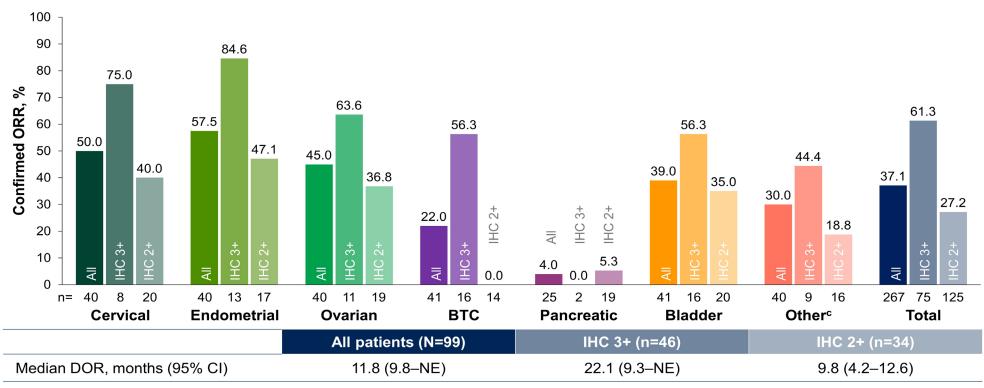




Destiny-pantumor02: trastuzumab deruxtecan in solid tumors



Objective Response Rate by HER2 status



Analysis of ORR was performed in patients who received ≥1 dose of T-DXd; all patients (n=267; including 67 patients with IHC 1+ [n=25], IHC 0 [n=30], or unknown IHC status [n=12] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=75) or IHC 2+ (n=125) status. Analysis of DOR was performed in patients with objective response who received ≥1 dose of T-DXd; all patients (n=99; including 19 patients with IHC 1+ [n=6], IHC 0 [n=9], or unknown IHC status [n=4] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=34) or IHC 2+ (n=34) status. ^aResponses in extramammary Paget's disease, head and neck cancer, oropharyngeal neoplasm, and salivary gland cancer.

BTC, bililary tract cancer; Cl, confidence interval; DOR, duration of response; IHC, immunohistochemistry; NE, non-estimable; ORR, objective response rate.





PRESENTED BY: Funda Meric-Bernstam, MD







...Take home messages

- ✓ A complete biomolecular carachterization is required to choose the best therapeutic strategies
- ✓ A new era with personalized therapy in early stage has just began
- ✓ The identification of a target may represent a valid therapeutic alternative
- ✓ ADC are emerging as a promising option in several cancers
- ✓ The enrollment in clinical trial has to be evaluated in presence of molecular target



...Thank you!

