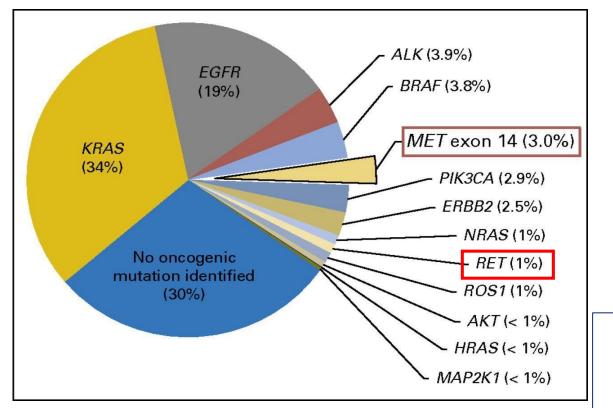
Selection of 1st line therapy for MET amplification and MET exon 14 mutation in NSCLC

Dr Mansi Sharma Consultant Medical Oncology Rajiv Gandhi Cancer Institute and Research Centre, Delhi



Rajiv Gandhi Cancer Institute and Research Centre



MET in NSCLC may be a:

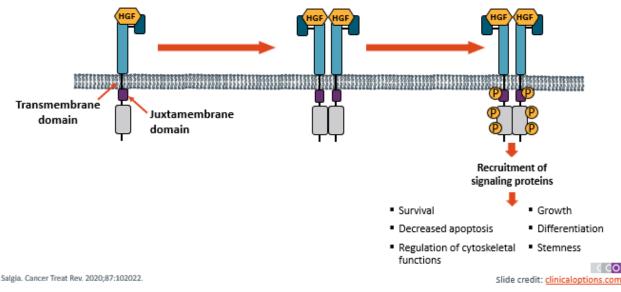
Primary oncogenic driver: exon 14 skipping mutations, high-level amplification, *MET* fusions

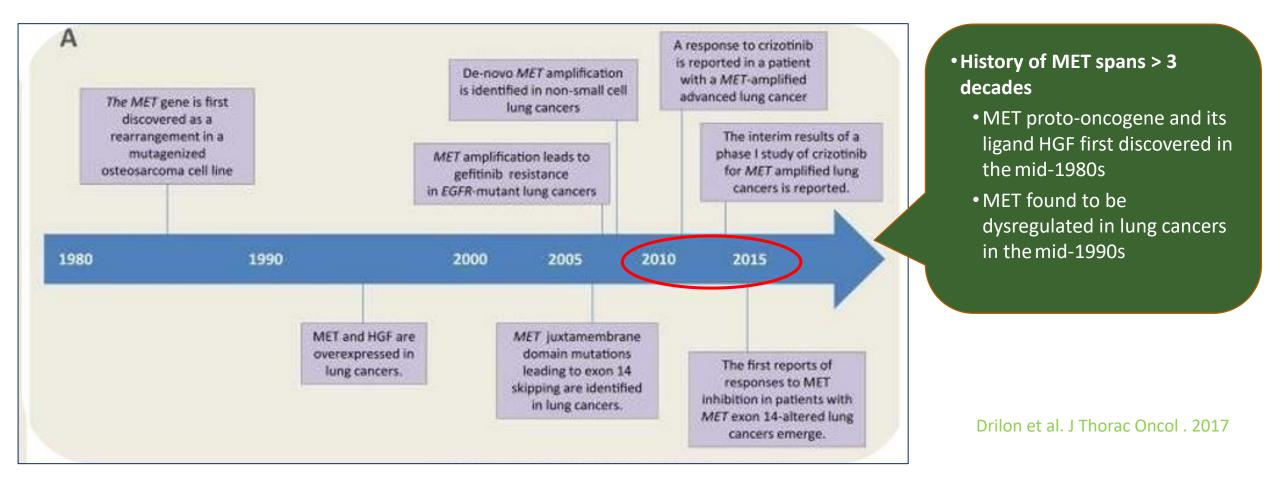
Secondary co-driver of acquired resistance in patients with NSCLC and *EGFR* mutations or other oncogenic alterations Mesenchymal–epithelial transition (*MET*) proto-oncogene long arm of human chromosome 7

Encodes the tyrosine kinase receptor for hepatocyte growth factor (HGF)

MET signaling regulates important cell functions dysregulation may contribute to oncogenesis

Wild-Type MET Signaling





The first activating mutations identified within the MET gene were discovered by genome-wide analysis of families with hereditary papillary renal cell carcinoma

Over the past two decades, alterations within and outside the MET kinase domain have been described in several solid tumours, including NSCLC, glioblastoma, breast, renal and colon cancers, as well as cancers of unknown primary origin

Suggests that activated MET plays a significant role in the tumourigenic process in a wide range of cell types

Prevalence of *MET* **Alterations**

	METex14 mut	MET Amp
Molecular	~3% NSCLC 15% co-occurring <i>MET</i> amp	<10% NSCLC ~10% resistance mechanism in <i>EGFR</i> ~15% resistance mechanism in <i>ALK</i>
Pathology	Histology: Adenocarcinoma, sarcomatoid, squamous, adenosquamous High PD-L1, low TMB	Histology: Adenocarcinoma, squamous, others High PD-L1, low TMB
Clinical	Median age ~70 y Smokers, also in never-smokers Female Poor survival	Median age ~60 y Smokers Male Poor survival

METex14 mut

Occur in NSCLC mostly independently of other oncogenes Mutually exclusive with these molecular drivers

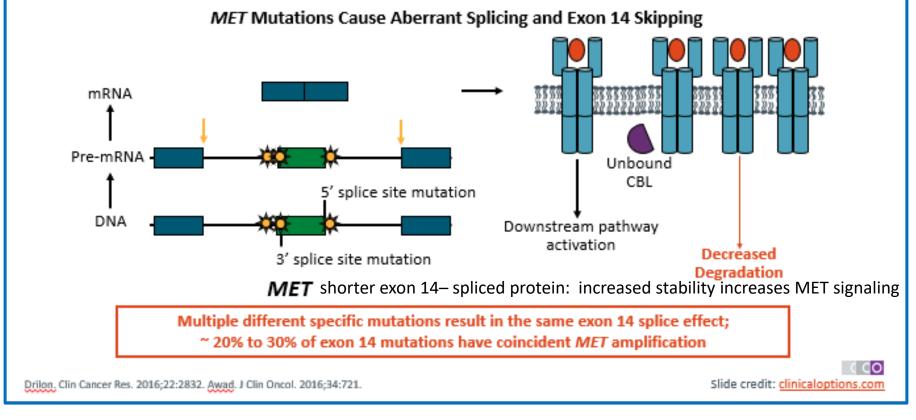
1% of patients with squamous cell carcinoma lung

MET Amp

often co-occur with other pathogenic mutations (NRAS, KRAS and TP53)

Squamous cell ca: Former or current smokers- over 50% of patients

*MET*ex14 Splice Site Alterations: Alternative Splicing Can Be Oncogenic



High frequency in non- squamous subtype of pulmonary sarcomatoid carcinoma: 5–32%

Heterogeneous group of indels and missense mutations: post-translational modifications detectable at the RNA level

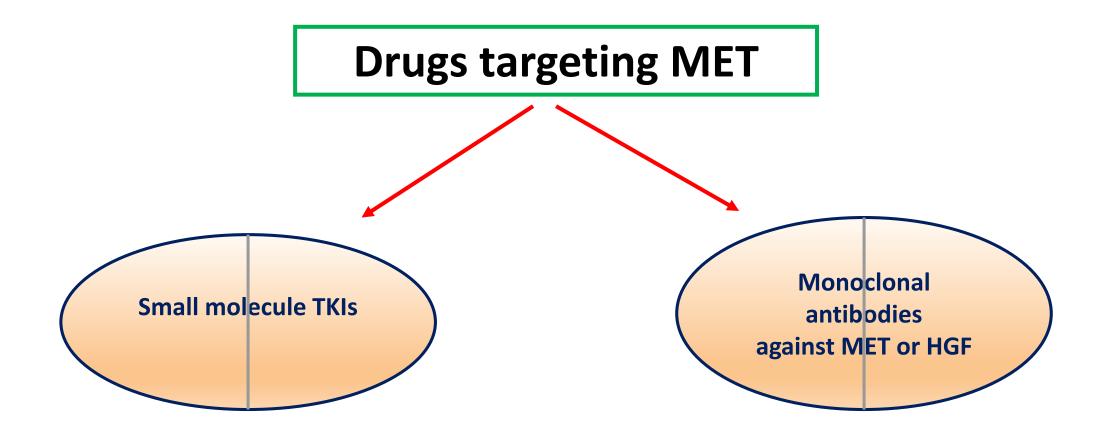
older patients (median age of 72 years)

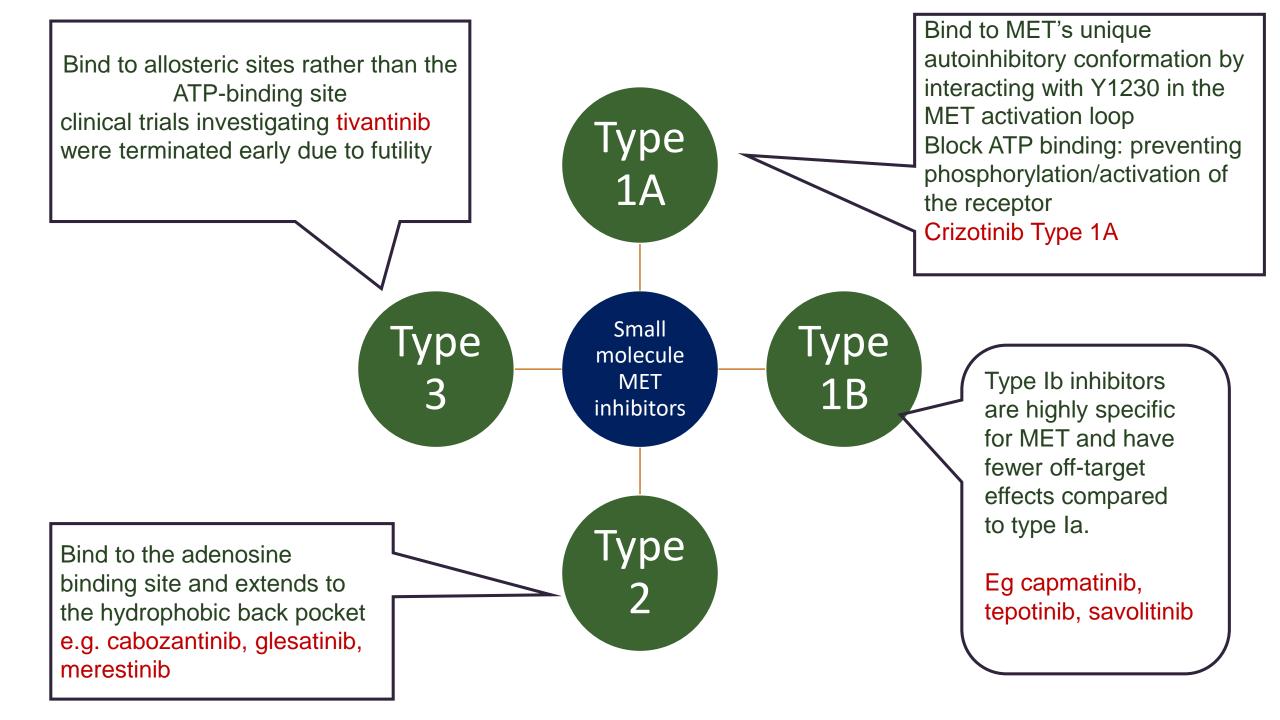
Higher percentage of eversmokers compared to patients with tumours harbouring other oncogenic alterations

aggressive disease, resistance to anticancer therapies, and poor prognosis when not treated with MET inhibitors

Testing Strategies

- Dysregulated MET expression and activity can be detected at the DNA, RNA, and protein levels
- IHC detects protein overexpression: poor correlation between IHC and METex14 skipping mutations and MET amplification, Guidelines do not support the use of MET IHC as a surrogate marker or screening for genomic MET alterations
- Fluorescence in situ hybridization (FISH) identify gene amplification- can be utilized in select scenarios
- Reverse transcription polymerase chain reaction (RT-PCR) detect gene mutations
- Next-generation sequencing (NGS) detect both amplifications and mutations, depending on the sample used (i.e., DNA and/or RNA)
 - More *MET*-ex14 mutations identified by RNA NGS than DNA NGS, DNA NGS: 16/644 (2.5%), RNA NGS: 25/644 (3.9%)* * Jurkiewicz. ASCO 2020. Abstr 9036.
 - Due to a high risk of poor sensitivity, caution is needed when amplicon-based DNA panels are used to capture some genomic METex14 skipping mutations without combined RNA sequencing.
- Guidelines recommend broad based multi-target testing, rather than single gene testing





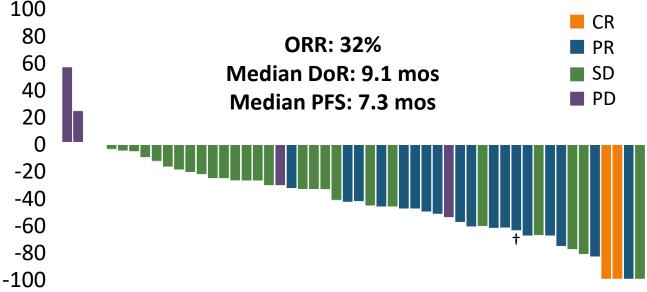
PROFILE 1001: Crizotinib in MET Exon 14–Altered NSCLC

From Baseline (%)

Change I

- Crizotinib: multikinase TKI approved for treatment of ALK+ and ROS+ NSCLC
- 250 mg twice daily
- Open-label, multicohort phase I study evaluating efficacy, safety of crizotinib in NSCLC, including a *MET*ex14 expansion cohort (n = 69)
- No difference in ORR by type of MET alteration, either by splice-site region or by mutation type
- Estimated mOS: 20.5 months, 12-month rates of 70%
- Intracranial efficacy: poor brain penetration

Best % Change in Target Lesion Size from Baseline (n = 52*)



*Of 65 response-evaluable patients, 13 excluded from waterfall plot. **MET*ex14 alteration by local testing; *ROS1*+, WT *MET* by [†]central testing.

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Capmatinib in MET Exon 14–Mutated or MET-Amplified Non–Small-Cell Lung Cancer

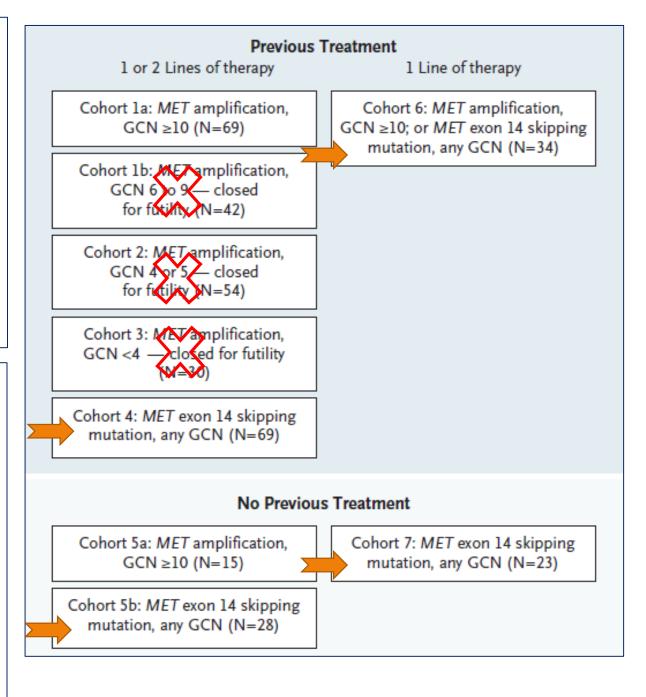
J. Wolf, T. Seto, J.-Y. Han, N. Reguart, E.B. Garon, H.J.M. Groen, D.S.W. Tan, T. Hida, M. de Jonge, S.V. Orlov, E.F. Smit, P.-J. Souquet, J. Vansteenkiste, M. Hochmair, E. Felip, M. Nishio, M. Thomas, K. Ohashi, R. Toyozawa, T.R. Overbeck, F. de Marinis, T.-M. Kim, E. Laack, A. Robeva, S. Le Mouhaer, M. Waldron-Lynch, B. Sankaran, O.A. Balbin, X. Cui, M. Giovannini, M. Akimov, and R.S. Heist, for the GEOMETRY mono-1 Investigators*

prospective, international, open label, multiple-cohort, phase 2 study

Patients with advanced stage NSCLC were assigned to cohorts on the basis of *MET* status and previous lines of therapy

Stable brain metastases allowed

400 mg twice daily fasting in cohorts 1 - 5 without fasting restrictions in cohorts 6 and 7 (now no food restrictions!!)



GEOMETRY mono-1: Best Overall Response in Pretreated Cohort 4

	2/3L Cohort 4 (n = 69)						
Response per RECIST v1.1, n (%) –	BIRC	Investigator					
Best overall response							
 CR 	0	1 (1.4)					
PR	28 (40.6)	28 (40.6)					
 SD 	25 (36.2)	22 (31.9)					
 Non-CR/non-PD 	1 (1.4)	2 (2.9)					
 PD 	6 (8.7)	7 (10.1)					
 Not evaluable* 	9 (13.0)	9 (13.0)					
ORR, % (95% CI)	40.6 (28.9-53.1)	42.0 (30.2-54.5)					
DCR, % (95% CI)	78.3 (66.7-87.3)	76.8 (65.1-86.1)					
*Not qualifying for confirmed CR/PR and no SD achieved	after ≥ 6 wks or PD within first 12 wks.						
 Response rates comparable by 	BIRC and investigator asse	ssment					

GEOMETRY mono-1: Best Overall Response in Treatment-Naive Cohort 5B

Perspense per $PEC(ST v1.1 p (0))$	1L Cohort 5B (n = 28)					
Response per RECIST v1.1, n (%) –	BIRC	Investigator				
Best overall response						
• CR	1 (3.6)	0				
• PR	18 (64.3)	17 (60.7)				
• SD	8 (28.6)	10 (35.7)				
• PD	1 (3.6)	1 (3.6)				
DRR, % (95% CI)	67.9 (47.6-84.1)	60.7 (40.6-78.5)				
DCR, % (95% CI)	96.4 (81.7-99.9)	96.4 (81.7-99.9)				
Response rates comparable	e by BIRC and investiga	ator assessment				

mPFS: 5.4 months among previously treated patients and 12.4 months among treatment naïve patients Clinically meaningful median OS of 20.8 months in first-line (Cohort 5b) and of 13.6 months in relapse settings (Cohort 4)

no considerable differences in response according to the type of genetic alteration causing *MET* exon 14 skipping mutations or the co-occurrence of *MET* amplification

Intracranial responses: 54%, CR in four patients.

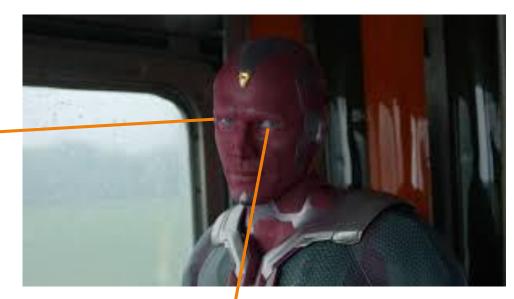
Tepotinib: highly selective oral MET inhibitor

Open-label, phase 2 study : VISION study Tepotinib 500 mg OD patients with advanced or metastatic NSCLC

3 cohorts:

Cohort A: MET exon 14 skipping mutations were enrolled Cohort B: MET-amplified disease (but without MET exon 14 skipping mutations) Cohort C: patients with MET exon 14 skipping mutations for confirmatory analysis of the results in cohort A

Prospective testing of *MET* exon 14 skipping mutations: Circulating free DNA (cfDNA) obtained from plasma (liquid biopsy)Guardant360 Or RNA obtained from fresh or archival tumor-biopsy tissue: Oncomine Focus Assay



ASCO 2020: Update of Phase II VISION Study of Tepotinib in *MET*ex14 Mutation–Positive NSCLC

Efficacy Outcomes*	Liquid Biops	y (L+) (n = 66)	Tissue Biopsy (T+) (n = 60)			
Efficacy Outcomes	IRC	Investigator	IRC	Investigator		
ORR, % (95% CI)	44 (32-57)	56 (43-68)	47 (34-60)	62 (48-74)		
Median DoR, mos (95% CI)	11.1 (8.3-NE)	16.4 (7.3-21.5)	12.4 (9.7-NE)	16.4 (7.0-21.5)		
DCR, % (95% CI)	64 (51-75)	70 (57-80)	70 (57-81)	78 (66-88)		
Median PFS, mos (95% CI)	8.5 (5.1-11.0)	8.5 (5.6-11.2)	11.0 (7.8-17.1)	12.2 (6.3-17.7)		
Median OS*, mos (95% CI)	19.1 (9	9.5-NE)	19.7 (1	2.8-NE)		

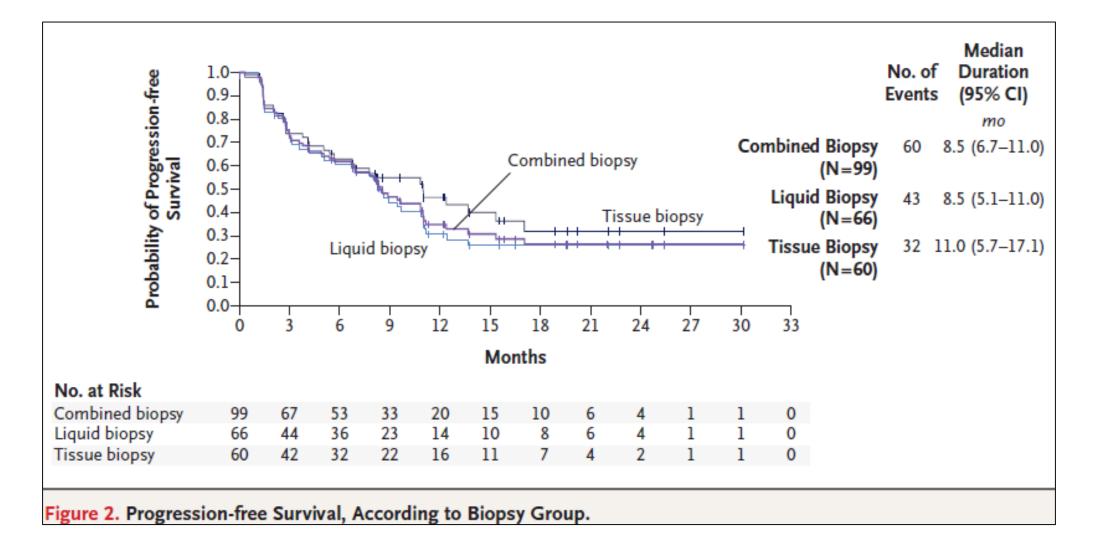
*Immature.

Comparable outcomes in patients with brain mets (n = 11)

- ORR by IRC: 55% (95% CI: 23-83)
- Median PFS: 10.9 mos (95% CI: 8.0-NF)

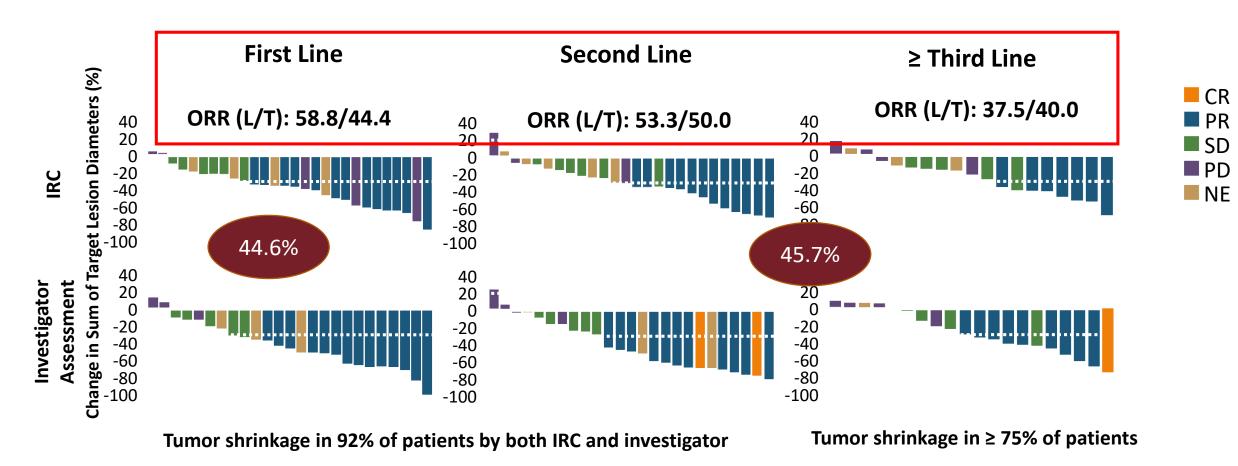
Le. ASCO 2820. Abstract 9556. Paik. ASCO 2020. Abstract 9575.

- Grade ≥ 3 AEs in 37/151 (25%)
 - 13 patients (9%) d/c due to TRAEs
- Analysis of PROs showed clinical improvement in coughing, while maintaining HRQoL Slide credit: <u>clinicaloptions.com</u>



Outcomes were similar in the two biopsy categories No association was noted between the location or type of the *MET* exon 14 alteration and outcome

VISION: Tumor Response



response rates were similar regardless of baseline characteristics and the number of lines of previous therapies

Once-daily savolitinib in Chinese patients with pulmonary sarcomatoid carcinomas and other non-small-cell lung cancers harbouring *MET* exon 14 skipping alterations: a multicentre, single-arm, open-label, phase 2 study _ancet Respir Med 2021

Shun Lu, Jian Fang, Xingya Li, Lejie Cao, Jianying Zhou, Qisen Guo, Zongan Liang, Ying Cheng, Liyan Jiang, Nong Yang, Zhigang Han, Jianhua Shi, Yuan Chen, Hua Xu, Helong Zhang, Gongyan Chen, Rui Ma, Sanyuan Sun, Yun Fan, Jing Li, Xian Luo, Linfang Wang, Yongxin Ren, Weiguo Su

Multicentre, single-arm, open-label, phase 2 study 70 patients

Savolitinib: 600 mg (bodyweight ≥50 kg) or 400 mg (bodyweight <50 kg) once a day

Cohort 1: MET inhibitor-naïve

Cohort 2: MET inhibitor-treated

Cohort 3: An exploratory study cohort was added after the completion of cohort 1 enrolment to investigate the efficacy, safety, and pharmacokinetic characteristics of savolitinib when administered through different methods

21% patients had brain metastases

	IRC-assessed (n=70)	Investigator- assessed (n=70)			All-cause ad events	tverse	Treatment adverse evo	
ponse omplete	0	0			Any grade	Grade ≥3	Any grade	Gra
atients with	brain metasta	ises		Any event	70 (100%)	45 (64%)	70 (100%)	32
ved stable or savolitinib t	decreased br reatment	rain lesions		Event occurring in ≥25% of patients				
				Peripheral oedema	39 (56%)	6 (9%)	38 (54%)	6
e patients v	who had brai	in		Nausea	37 (53%)	0	32 (46%)	0
tastases sele				Hypoalbuminaemia	29 (41%)	1(1%)	16 (23%)	0
investigators	had intracra	anial		Increased aspartate aminotransferase	27 (39%)	9 (13%)	26 (37%)	9
ective response rate	30 (42·9%, 31·1–55·3)	33 (47·1%, 35·1–59·5)		Increased alanine aminotransferase	27 (39%)	7 (10%)	27 (39%)	7
ase control rate	58 (82·9%, 72·0-90·8)	57 (81·4%, 70·3-89·7)		Vomiting	23 (33%)	0	18 (26%)	0
ian time to response,	1.4	1.4		Decreased appetite	22 (31%)	0	14 (20%)	0
iths	(1.4-1.5)	(1.4-1.5)		Pyrexia	20 (29%)	1 (1%)	10 (14%)	1
dian duration of oonse, months	8.3 (5.3-16.6)	6·9 (4·9–12·5)		Hypokalaemia	18 (26%)	5 (7%)	7 (10%)	2
dian progression-free	6.8	6.9		Anaemia	18 (26%)	1(1%)	10 (14%)	1
vival, months	(4-2-9-6)	(4.6-8.3)		Cough	18 (26%)	0	0	0
nonth progression-free vival (95% CI)	52·0% (38·6–63·8)	54·6% (41·3-66·1)		Data are n (%).			reatment	
-month progression-free vival (95% CI)‡	31·9% (20·3-44·2)	30·7% (19·6–42·6)	1	Table 3: Adverse events	in the full an		elated ntinuation	

SAFETY

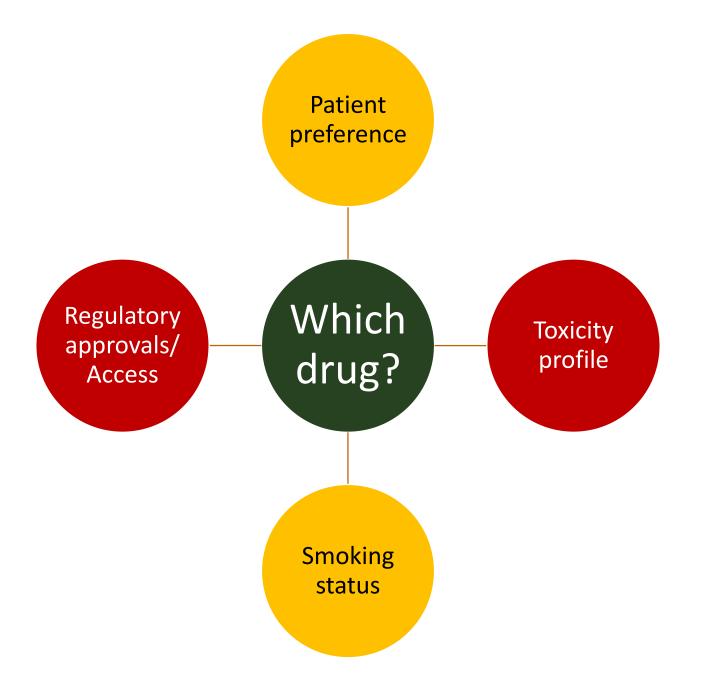
73)

%

potinib hase 2	Patients (N = 255)	Capmatinib (Phase 2 GEOMET	
ON) ¹	All Grades, ≥20%	mono-1) ²	All Grades, ≥20
eral	54.4	Peripheral oedema	54.2
ema	54.1	Nausea	45.0
usea	20.0	Vomiting	28.2
	Es, 24.3%	Increased blood creatinine	26.5
scontinua	ion, 10.6%	Dyspnoea	23.3
		Fatigue	22.3
	e 3 peripheral edema Decreased appetite 21.2		e 21.2
арі	orox. 8%	Grade 3-4 AE Discontinuatio	

Pseudo Acute Kidney Injury/ rise in serum creatinine: inhibition of renal transporters multidrug and toxic extrusion protein 1 and 2-K (MATE1 and MATE2-K)

Monitor for ILD and pneumonitis during treatment; monitor LFTs; counsel patients to limit direct UV exposure due to potential photosensitivity and to use effective contraception due to potential risk to fetus



Cross Trial comparison of the small molecule MET inhibitors

VISION	Tepotinib Confirmatory A	nalysis ¹	Capmatinib Confirmatory Analysis ²				
	First-Line	Second-Line and Beyond		Previously Treated	Treatment- Naïve		
Median DOR,	NR	12.6		Treated	INGIVE		
Median PFS, mo	15.9	12.1	Median DOR, mo	17.2	NR		
Median OS, mo	21.1	18.8	Median PFS, mo	9.1	10.6		
	vs Second-Line 60% vs 47%	+ ORR,		aïve vs Previousl R, 68% vs 50%	y Treated		

Phase	Savolitinib 2 Open-Label Single-Ar	m Trial ¹
	Previously Treated (n = 42)	Treatment-Naïve (n = 28)
Median PFS, mo	6.9	6.9
Median OS, mo	19.4	10.9
	ORR (N = 61), 49.2%	

Reference(s): 1. Thomas M et al. IASLC 2022 WCLC World Conference on Lung Cancer (WCLC 2022). Abstract OA03.05.

2. Illini O et al. *Ther Adv Med Oncol.* 2022;14:17588359221103206.

Key Trials Evaluating MET Inhibitors for *MET* Exon 14– Altered NSCLC

Crizotinib: lower ORR

MET Inhibitor		Trial and C	ohorts	Testir	ng	ORR, %	Median DoR, Mos	Median PFS, Mos	lower ORR
Crizotinib ^[1,2]	PROFILE 100: Treatmen		n cohort pretreated (n = 65) Tumo	or	32	9.1	7.3	
Capmatinib ^[3,4]	Phase II GEO Pretreate Treatmen	d (2L/3L) (n	= 69)	Tumo		40.6 67.9	9.7 11.1	5.4 9.7	ORR: 45-
Tepotinib ^[5,6]	• 2L/3L (• 1L (n =	+ by liquid n = 31) 17) + by tissue n = 33)	biopsy (n = 48 biopsy (n = 5	Tumo or	or A	50.0 45.2 58.8 45.1 45.5 44.4	12.4 12.4 15.7 12.4 	9.5* 10.8 [†] 	68% in 1 st line (capmatinib highest)
Savolitinib ^[7,8]	Phase II (NCT Treatmen		pretreated (n = 31) Tumo	or	51.6			ORR: 40-
Data shown for cap ilon. Nat Med. 2020;20 ik. ASCO 2019. Abstr 9	5:47. 2. NCT0058519	5. 3. Wolf. ASCO	0 2019. Abstr 900 019. Abstr CT031	4. 4. NCT02414139. 8. NCT02897479.			Slide	credit: <u>clinicaloptions.com</u>	45% in 2 nd or later
			Crizotinib	MET TKI Potency Cabozantinib	/ Compariso Savolitinib		Capmatinib		lines of therapy
		IC ₅₀ , nM	22.5	7.8	2.1	~ 1.7-3.0			

Emerging Targeted therapy for NSCLC with MET exon 14 skipping mutations

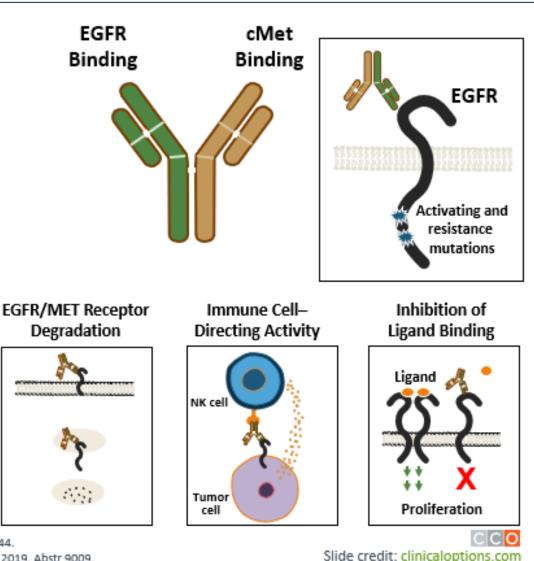
Amivantamab (JNJ-372): EGFR-MET Bispecific Antibody

- Fully humanized, bispecific IgG1 Ab targeting EGFR mutations and MET mutations/amplifications via unique MoA^{1,2}
 - 3 MoAs: receptor degradation, immune cell-directing activity, inhibition of ligand binding

CHRYSALIS: Open-label phase I multicohort dose escalation (140-1750 mg) and dose expansion study

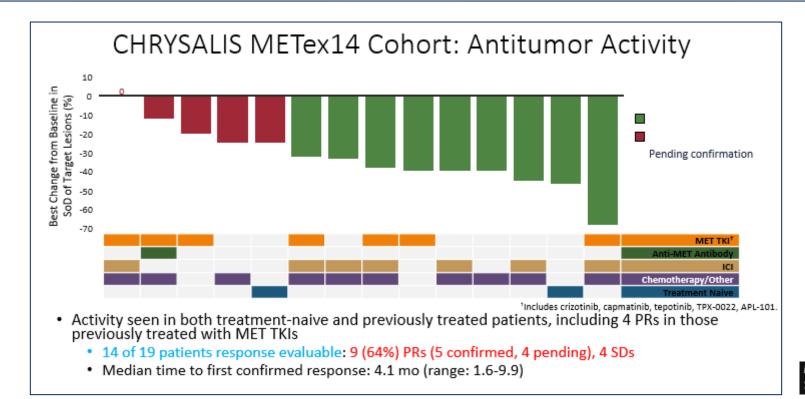
Patients with metastatic/unresectable NSCLC with primary *MET*ex14 mutation by NGS of tumor or ctDNA who progressed after or declined standard of care treatment (n = 19) 42% patients had received prior MET

inhibitors, 21% were treatment naïve

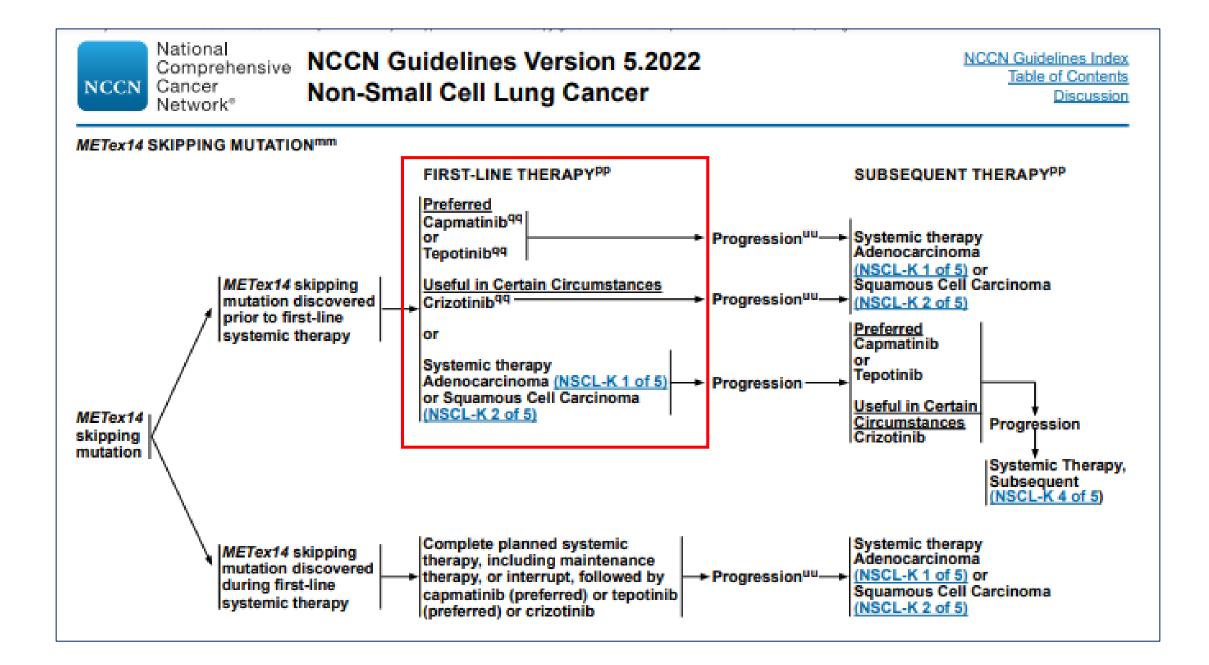


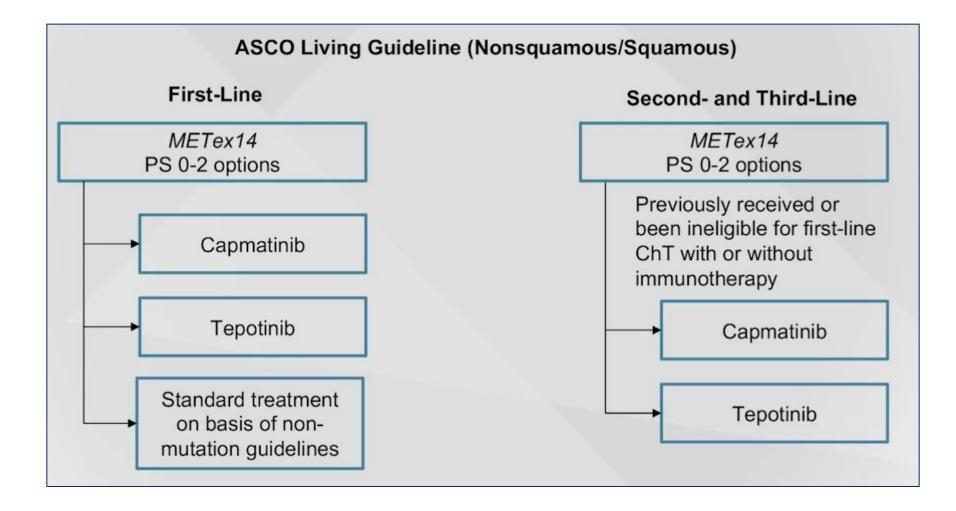
Moores. Cancer Res. 2016;76:3942. 2. Vijayaraghavan. Mol Cancer Ther. 2020;19:2044.
 Yun. Cancer Discov. 2020;10:1194. 4. Cho. ESMO 2018. Abstr. 1497P. 5. Haura. ASCO 2019. Abstr 9009.

Amivantamab Phase 1 Dose Expansion CHRYSALIS							
	Entire Cohort (N = 46)	Prior MET Inhibitor (n = 24)	No Prior MET Inhibitor (n = 15)	Treatment- Naïve (n = 7)			
ORR, %	33	17	47	57			
Median PFS, mo	6.7	4.2	8.3	NE			



Reference(s): Krebs M et al. *J Clin Oncol.* 2022;40(16_suppl):9008-9008.





MET amplification

- 2 different quantification FISH criteria used:
 - increase in absolute copy number (e.g. mean copy number of the gene per cell)
 - Increase in the ratio of gene copies relative to other areas on the same chromosome (MET/CEP7 ratio)
- Recent clinical trials with MET inhibitors define different cut-offs for MET amplification positivity
- Consensus on the definition of MET positivity yet to be reached

Drug	Trial	MET Amplification Cut Offs	n	Type of Biopsy	ORR, % (95% CI)	Median DOR Months (95% CI)	Median PFS Months (95% CI)
		$\frac{MET/CEP7 \text{ ratio:}}{4\text{High}}$	21		38 (18.1–61.6)	5.2 (3.3–25.8)	6.7 (3.4–9.2)
Crizotinib PROFILE 1001	PROFILE 1001	MET/CEP7 ratio: >2.2 to <4—Medium	14	Tumour tissue	14.3 (1.8-42.8)	3.8 (3.8–3.8)	1.9 (1.3–5.6)
		MET/CEP7 ratio: ≥1.8 to <2.2—Low	3	tissue	33 (0.8–90.6)	12.2 (12.2–12.2)	1.8 (0.8–14.0)
		$GCN \ge 6$	15		40% a	4.86–12.02 ^b	0.85–14.9 ^b
		Cohort 1a: GCN \geq 10	69		29 (19-41)	8.3 (4.2-15.4)	4.1 (2.9-4.8)
Commotinih (Cohort 1b: GCN 6 to 9 °	42	Tumour	12 (4-26)	24.9 (2.7-24.9)	2.7 (1.4-3.1)
	GEOMETRY-mono-1	Cohort 2: GCN 4 or 5 °	54	tissue	9 (3-20)	9.7 (4.2-NE)	2.7 (1.4-4.1)
		Cohort 3: GCN < 4 °	30		7 (1-22)	4.2 (4.2-4.2)	3.6 (2.2-4.2)
Tepotinib	VISION	Cohort B: MET GCN >2.5	24	Liquid biopsy	41.7 (22.1, 63.4)	NE (2.8, NE)	4.2 (1.4, NE)

Table 3. Trials with MET inhibitors in NSCLC with MET amplification.

Preliminary evidence indicates activity of MET inhibitors in patients with NSCLC and MET amplification The number of evaluated patients in these trials is small, duration of the follow-up is short, and the amplification thresholds are not clearly defined and vary between the trials

Some results were lower than the prespecified threshold for significance





Guidelines

Canadian Consensus Recommendations on the Management of *MET*-Altered NSCLC

Parneet K. Cheema ^{1,2,*}, Shantanu O. Banerji ³, Normand Blais ⁴, Quincy S.-C. Chu ⁵, Patrice Desmeules ⁶,

and vary between the trials. On the other hand, current standard of care approaches for patients without actionable mutations (ICIs \pm chemotherapy) lead to a median PFS of 8–9 months and a median OS of 16–30 months [91,119–122]. After discussing evolving data with *MET* inhibitors and evidence in support of ICIs \pm chemotherapy, the panel concluded that ICIs \pm chemotherapy should remain the standard of care in NSCLC with de novo *MET* amplification.

Recommendations

- 27. In patients with advanced NSCLC with de novo *MET* amplification, *MET*-targeted therapy could be considered through clinical trials at any line of therapy.
- 28. In patients with advanced NSCLC with de novo *MET* amplification, *MET*-targeted therapy could be considered after other standard therapies have been exhausted or in cases not eligible for standard therapies.





Patients with Advanced EGFR-Mutated NSCLC with Acquired MET Amplification Progressing on EGFR Inhibitors

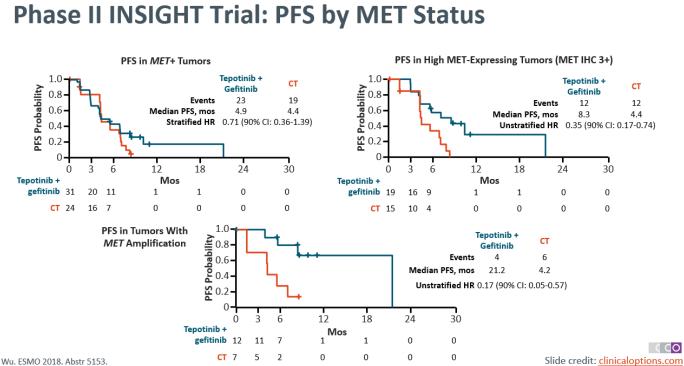
Phase II INSIGHT Trial

Tepotinib + Gefitinib vs Chemotherapy in MET+/EGFR+/T790M- NSCLC

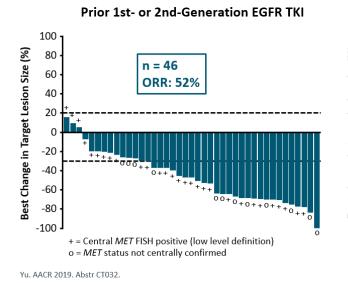
		Tepotinib + Gefitinib		Chemoth	erapy	Odds Ratio	
Analysis Set	Ν	Responder, n/N	ORR, %	R, % Responder, OI n/N OI		(90% CI)	
Overall	55	14/31	45.2	8/24	33.3	1.99 (0.56-6.87)	
MET IHC 2+3+	34	13/19	68.4	5/15	33.3	4.33 (1.03-18.33)	
MET amplified	19	8/12	66.7	3/7	42.9	2.67 (0.37-19.56)	

 ORR higher with tepotinib + gefitinib in patients with high MET-expressing (IHC 2+/3+) or METamplified NSCLC (GCN ≥ 5 or MET/CEP7 ratio ≥ 2)

phase II INSIGHT 2 study: currently investigating tepotinib plus osimertinib in patients with EGFRmutant NSCLC with acquired resistance to prior EGFR TKIs due to MET amplification



Phase Ib TATTON Trial of Osimertinib in *EGFR*-Mutant NSCLC: Efficacy in Combination With Savolitinib

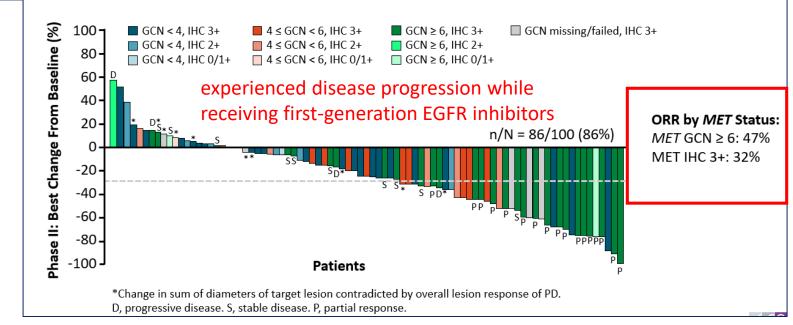


Prior 3rd-Generation EGFR TKI 100-(%) 80n = 48 size 60-**ORR: 25%** 40 20 target .⊑ -20 change -40 -60 Best -80 -100-+ = Central MET FISH posi o = MET status not centra

phase II trials ongoing with savolitinib in patients with EGFR mutant-NSCLC with

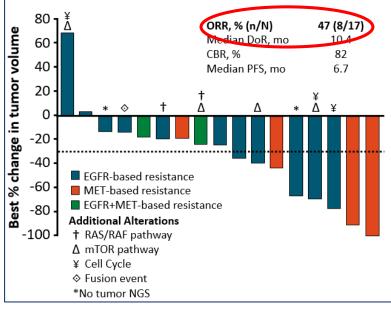
MET amplification and progression on previous osimertinib: SAVANNAH and ORCHARD

Capmatinib + Gefitinib in *EGFR*-Mutated, *MET*-Dysregulated NSCLC: Best Change From Baseline



CHRYSALIS: Response in Patients With *EGFR/MET*-Based Resistance

• 17 patients had either EGFR-based or MET-based resistance by NGS



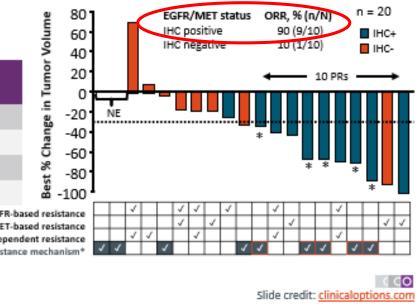
combination of amivantamab and lazertinib, a third-generation TKI Resistance*Alterations*CHRYSALIS: Response in Patients With
EGFR/MET Expression by IHC

 Of 20 patients with tumor biopsy available for IHC staining after tumor NGS, 10 were positive for EGFR/MET by IHC (EGFR+METH score ≥400); remainder were IHC negative

IHC-Positive Patients (n = 10)			
90	ge in Tumor		
9.7	Change		
100	Best % (
12.5	Bes		
N EGFR/MET-ind	GFR-based res MET-based res dependent res sistance mech		
	90 9.7 100 12.5 EGFR/MET-Ind		

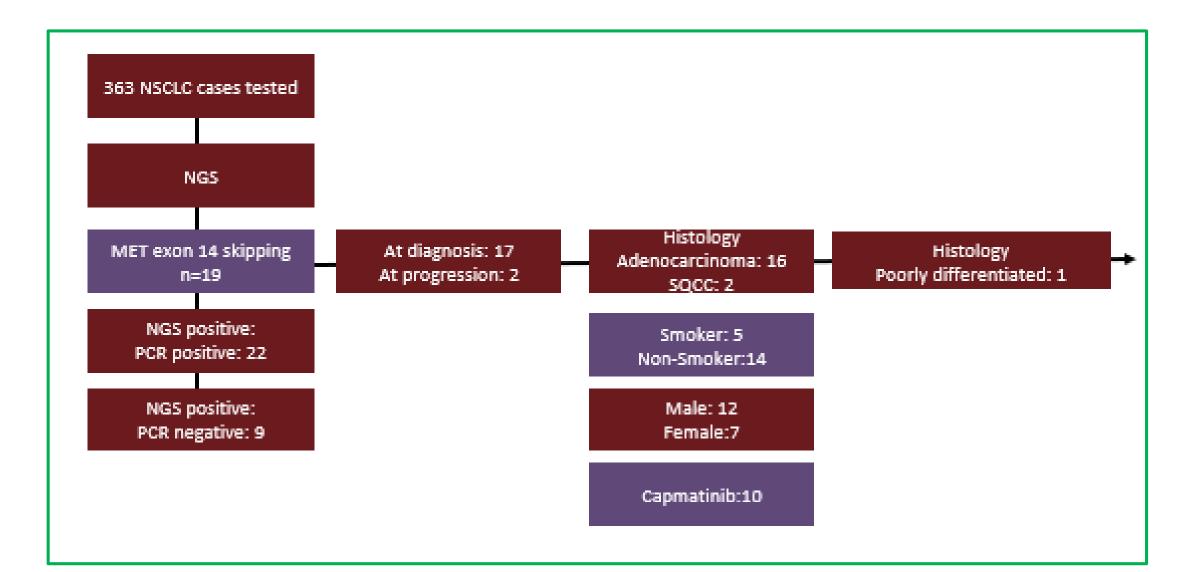
Metastatic/unresectable NSCLC with EGFR ex19del or L858R mutation and progression on osimertinib without intervening chemotherapy

 5 responding patients positive for EGFR/MET by IHC had unknown resistance mechanism



Additional validation analyses with both NGS and IHC needed to confirm these promising preliminary data

MET exon 14 skipping mutation: our experience



Capmatinib experience

Features	1	2	3	4	5	6	7	8	9
Age/Sex	76/F	68/F	69/M	64/M	60/F	60/M	70/M	75/M	59/F
Met 14	At diagnosis	At diagnosis	At diagnosis	At diagnosis	At diagnosis	At diagnosis	IAT diagnosis	After progression	At diagnosis
Smoking	No	No	Yes	No	No	No	No	No	No
Capmatinib	After CT, developed ILD after 17 days of treatment, died	months	After CT, ongoing since 5 months	7 months,	on capmatinib since 15	capmatinib since 3	After CT, capmatinib since 4 months	capmatinib since 3	After chemo, started capmatinib this month