

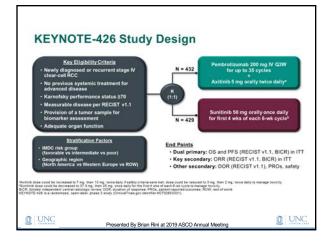


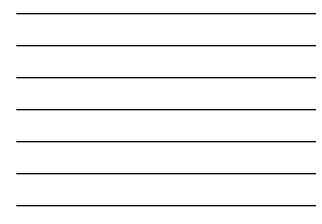
2019 in GU Cancers

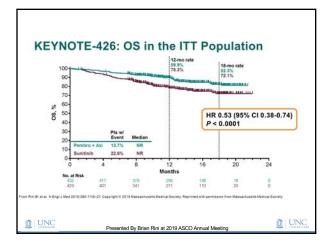
- Kidney Cancer
 - First-line IO/VEGF combinations
 - "Adjuvant" pazopanib after metastasectomy
- Bladder Cancer
 - Post-platinum, post-checkpoint options
- Prostate Cancer
 - The explosion of options for hormone sensitive metastatic prostate cancer
 - M0 CRPC

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Pembrolizumab plus Axitinib for mRCC

Other key findings from KEYNOTE-4261

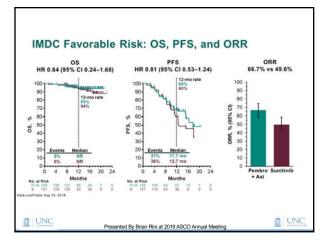
- PFS: HR 0.69 (P < 0.001)
- ORR: 59.3% vs 35.7% (P < 0.001)
- Benefit observed across subgroups, including the IMDC favorable, intermediate, and poor risk groups and in PD-L1–expressing and non-expressing tumors

- Manageable safety profile

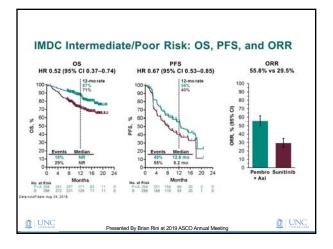
Combination of pembrolizumab and axitinib approved by the FDA for first-line treatment of advanced RCC

Presented By Brian Rini at 2019 ASCO Annual Meeting

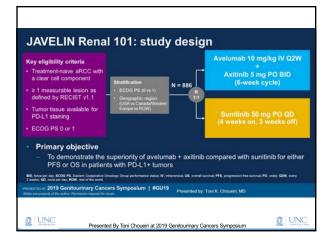
in) Bi et al. N Engl J Med 2019;380:1116-27

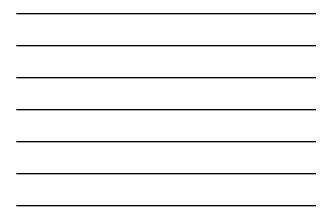












	N = 560)	Overall population (N = 886)		
Avelumab + axitinib (N = 270)	Sunitinib (N = 290)	Avelumab + axitinib (N = 442)	Sunitinib (N = 444)	
13.8		13.8	8.4	
11.1, NE	5.7, 9.7	11.1, NE	6.9, 11.1	
0.61; P < .0001		0.69; P = .0001		
55.2	25.5	51,4	25.7	
49.0, 61.2	20.6, 30.9	46.6, 56.1	21.7, 30.0	
	8.2	12.5	8.4	
9.8, NE	6.9, 8.5		8.2, 9.7	
0.51; P < .0001		0.64; P < .0001		
61.9	29.7	55.9	30.2	
55.8, 67.7	24.5, 35.3	51.1, 60.6	25.9.34.7	
	(N = 270) 13.8 11.1, NE 0.81; P < 0001 55.2 49.0, 61.2 13.3 9.8, NE 0.51; P < 0001 61.9	(N = 270) (N = 280) 13.8 7.2 11.1, NE 5.7, 9.7 051, P < 0001	(N = 270) (N = 280) (N = 442) 13.8 7.2 13.8 11.1, NE 5.7, 9.7 11.1, NE 0.61, P < 0.001	

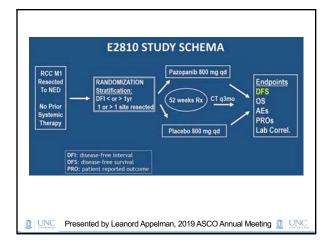


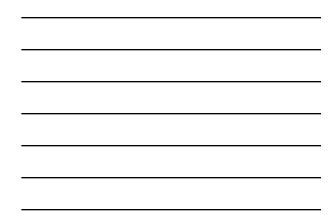
So which 1L treatment to pick?				
	Pembrolizumab + Axitinib vs Sunitinib	Avelumab + Axitinib vs Sunitinib	lpilimumab + Nivolumab vs Sunitinib	
IMDC risk group Favorable Intermediate Poor	31.2% 56.2% 12.6%	21.4% 61.8% 16.2%	23% 61% 17%	
PDL1 "positive"	60.5%	63.2%	63.2%	
Overall survival HR for death P value	0.53 <0.0001	0.78 0.14	0.68 <0.001	
Median PFS (mo) Combo therapy Sunitinib	15.1 11.1	13.8 8.4	12.4 12.3	
ORR (%)	59.3%	51.4%	39.0%	
CR (%)	5.8%	3.4%	10.2%	
Median f/u (mo)	12.8	11.6	25.2	
Ada	apted from Escudier,	NEJM 380;12 March	n 21, 2019 🔟 🛄	

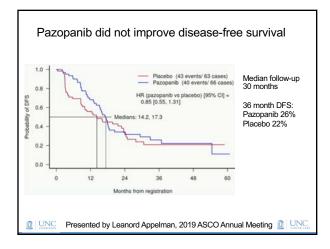


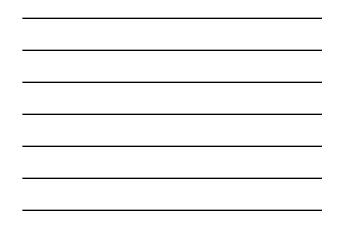
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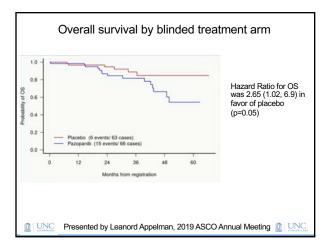
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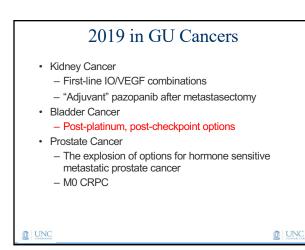




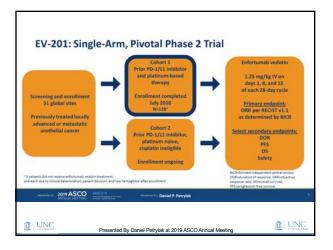




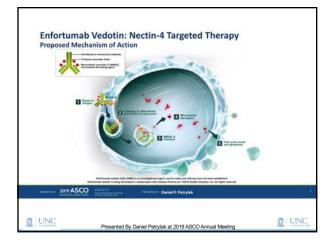




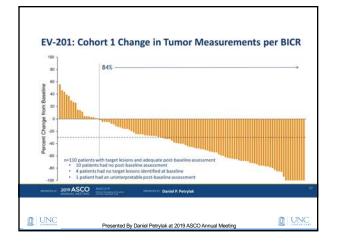
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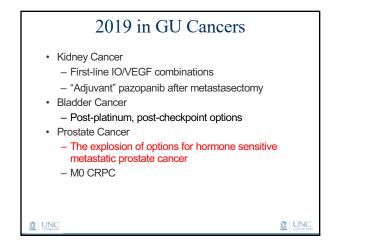


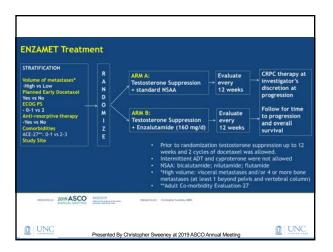


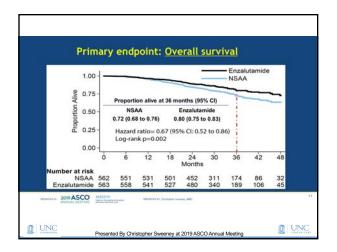




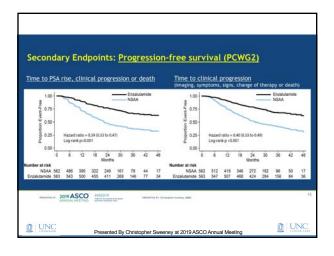








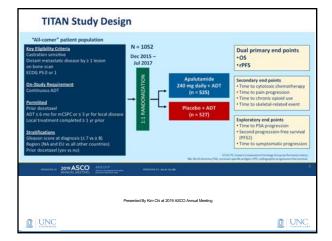


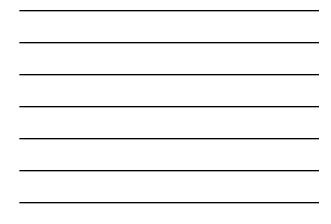


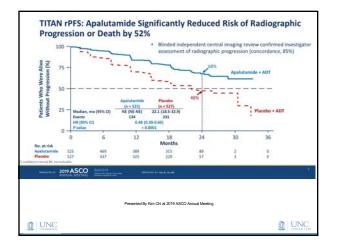




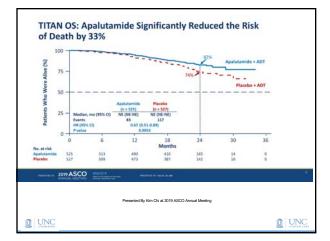






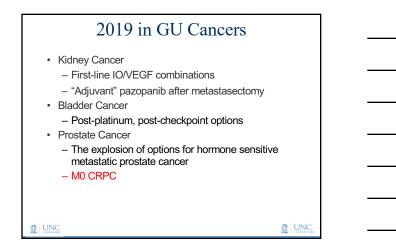


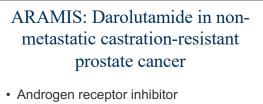




What t	o use in	hormone	sensitive o	lisease?
	CHAARTED (docetaxel)	LATITUDE (abiraterone/P)	ENZAMET (enzalutamide)	TITAN (apalutamide)
High volume disease, %	66%	100%	52%	62%
rPFS, HR (95%CI)	0.62 (0.5- 0.8)	0.47 (0.4-0.6)	0.40 (0.33-0.49)	0.48 (0.39- 0.60)
OS, low vol disease, HR (95%CI)	1.04 (0.7- 1.6)	N/A	0.43 (0.26-0.72)	0.67 (0.34- 1.32)
OS, HR (95%Cl)	0.72 (0.6- 0.9)	0.66 (0.6-0.8)	0.67 (0.52-0.86)	0.67 (0.51- 0.89)
Discontinuati on rate for AE		12%	6%	8%
Grade >=3% AE	29.6%	63% vs 48%	57% vs 43%	42% vs 41% (but rash)
QoL scores	Worse at 3mos, better at 12 mos	Better than placebo	Not reported	Not different than placebo
INC		E	HAARTED, Sweeney el atitude, Fizazi et al NEJ Enzamet, 2019 ASCO An Titan, 2019 ASCO Annua	nual Meeting 🛛 🕋

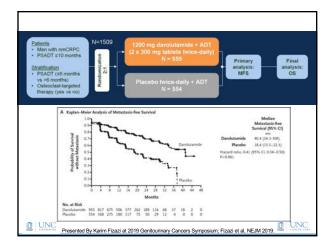




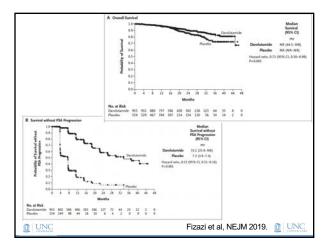


- Structurally distinct from enza/apalutamide – less CNS toxicity since doesn't cross BBB and fewer drug interactions (not a CYP-inhibitor)
- · Taken with food

Presented By Karim Fizazi at 2019 Genitourinary Cancers Symposium



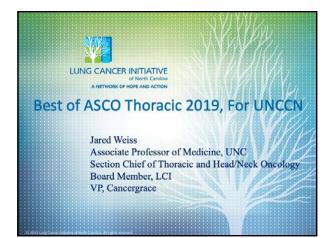


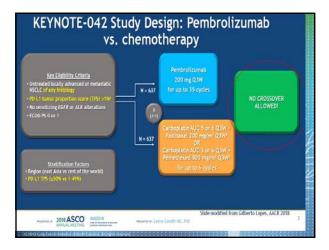




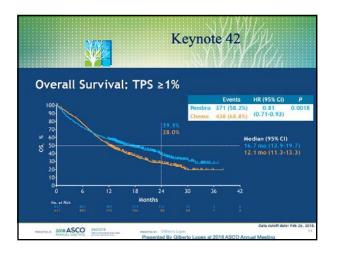
What to use in M0 CRPC?					
	SPARTAN (apalutamide)	PROSPER (enzalutamide)	ARAMIS (darolutamide)		
Median pre-trial PSA DT, mos	4.4	3.8	4.4		
Metastasis free survival, mos	40.5 HR 0.28 (0.23-0.35)	36.6 HR 0.29 (0.24-0.35)	40.4 HR 0.41 (0.34-0.50)		
Time to PSA progression, mos	NR HR 0.06 (0.05-0.08)	37.2 HR 0.07 (0.05-0.08)	33.2 HR 0.13 (0.11-0.16)		
Overall survival	HR 0.70 (0.47-1.04)	HR 0.80 (0.58-1.09)	HR 0.71 (0.50-0.99)		
Discontinuation rate for AE	11%	9%	9%		
Grade >=3% AE	45% vs 34%	31% vs 23%	25% vs 20%		
Note	: Men with PSA DT of >10 m	onths excluded from all these tria	als		
		SPARTAN, Smith et al, NE, PROSPER, Hussain et al, I ARAMIS, 2019 GU Cancer	NEJM 2018		



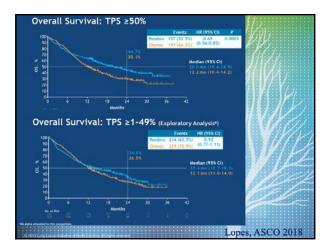




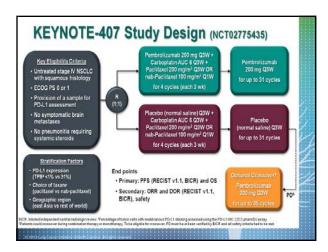




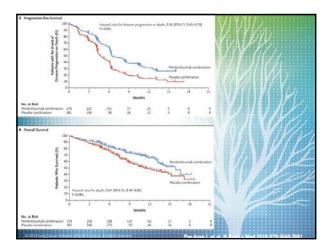




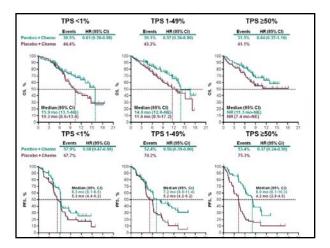








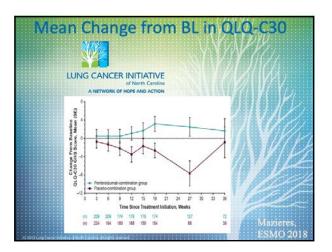




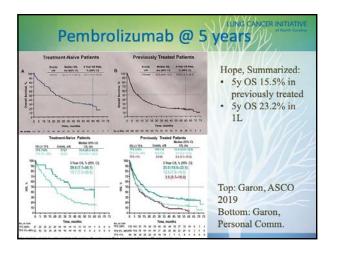


Event		ab Combination = 278)	Placebo Combination (N = 280)		
	Any Grade	Grade 3, 4, or 5	Any Grade	Grade 3, 4, or 5	
		number of patie	ents (percent)		
Any event	80 (28.8)	30 (10.8)	24 (8.6)	9 (3.2)	
Hypothyroidism	22 (7.9)	1 (0.4)	5 (1.8)	0	
Hyperthyroidism	20 (7.2)	1 (0.4)	2 (0.7)	0	
Pneumonitis	18 (6.5)	7 (2.5)†	6 (2.1)	3 (1.1)†	
Infusion reaction	8 (2.9)	4 (1.4)	6 (2.1)	1 (0.4)	
Colitis	7 (2.5)	6 (2.2)	4 (1.4)	3 (1.1)	
Hepatitis	5 (1.8)	5 (1.8)	0	0	
Severe skin reaction	5 (1.8)	3 (1.1)	1 (0.4)	1 (0.4)	
Hypophysitis	3 (1.1)	2 (0.7)	0	0	
Thyroiditis	3 (1.1)	1 (0.4)	0	0	
Nephritis	2 (0.7)	2 (0.7)	2 (0.7)	2 (0.7)	

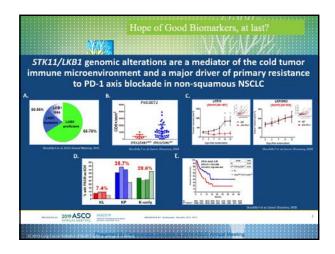




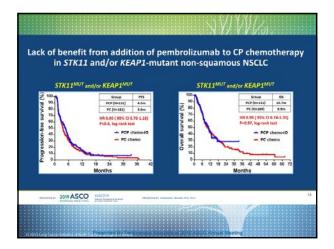




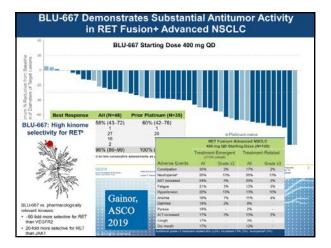




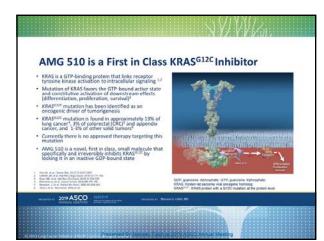




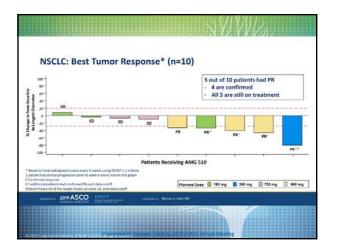






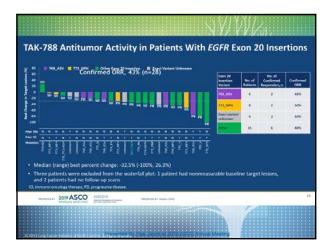


AMG5	NG O		CER INITIAT of North Cr RK OF HOPE AND A	CTION	Dela		
Adverse Event	Gr 1	Gr 2	Adverse Event	Gr 1	Gr 2	Grade 3 Adverse Event	n
Diarrhea	7	n	Proteinuria	n	1	Anemia*	1
Decreased appetite	2		Dry mouth	1		Diarrhea ^b	1
Nausea	2		Flatulence	1			
Elevated creatine phosphokinase	2		Vomiting	1		*Patient had grade 2 anemia at *Lasting 2 days	baseline
Elevated or change in AST	1	1	Fatigue	1		None of the 35 patient	s reported:
Elevated or change in ALT	1	1	WBC Decrease	1		DLTs Grade 4 related	AEs
Elevated alkaline phosphatase	1	1	Pyrexia	1		Serious related /	
Cheilitis		1	Arthralgia	1			
Hyperkalemia		Dean	arithmet Eleckharoware E	able at 1	0010 ASC	CO Annual Meeting	

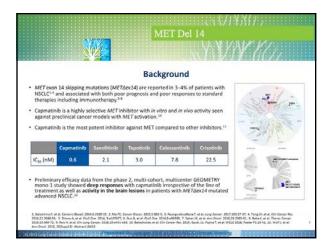




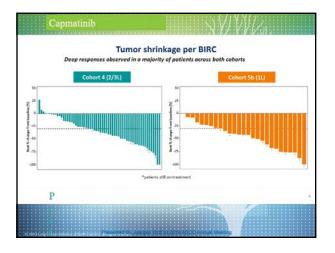
EGFR Exon 20			VIN/AL	
	EGFR Oncogenic	Driver Mutations ^{1,5,4}		
LUNG C	Exon 457			V769_0770insASV (+2) 0770_N771insSVD (+15 H773_V774inuH (+3)
A NI	TExon 18	Exon 20 =10%	nsertions (=6%) De novo T790M (<5%) 17681 (=1%)	A763_Y764insFQEA (x7 H773_v774insPH (x5 H773_V774insNPH (x6
		and the second	Contraction of the second	N771_P772insN (=3
		m 21 11N		H775_V774iniAH (+3 Other (+3)
Any grade: 220% of all patients	ed AEs in Pi	atients Tre Treated at sq#	All Patients Any D (N=1	Other (+33 TAK-788 Treated at hotel* 137)
Any grade: 220% of all patients Grade 23: 23% of all patients	ed AEs in Patients All Patients (m-7) Any Grade, %	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any C (N=1 Any Grade, %	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %
Any grade: 220% of all patients Grade 23: 23% of all patients (Drrhea	ed AEs in Pa All Patients 160 m (n=7 Any Grade, %	atients Tre Treated at sq#	All Patients Any C (N=1 Any Grade, % 74	Other (+33 TAK-788 Treated at hotel* 137)
Any grade: 220% of all patients Grade 23:23% of all patients Iorrhea Jourea	ed AEs in Pi All Patients 160 mj Any Grade, % 65 43	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any C (N=3 Any Grade, % 74 33	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %
Any grade: 220% of all patients Grade 23: 23% of all patients Jarrhea Jausea Jash	ed AEs in Patients 160 mg (m ²) Any Grade, % 65 43 36	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any E (N=1 Any Grade, % 74 33 26	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %
Any grade: 220% of all patients Grade 23: 23% of all patients Jarrhea Jash Omiting	ed AEs in P All Patients 100 m (nr) Any Grade, 5 65 43 26 23	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any C (N=1 Any Grade, % 74 33 26 22	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %
Any grade: 220% of all patients Grade 23: 23% of all patients Jaurhea Sausea Gashin Gomiting Gereased appetite	ed AEs in Patients 160 mg (m ²) Any Grade, % 65 43 36	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any E (N=1 Any Grade, % 74 33 26	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %
Treatment-Relat Any grate: 220% of all patients Grade 32 23% of all patients Neurons Neurons Neurons Secretaria appetite formatifi	ed AEs in Pi Id mi Inv Any Grade, % 65 43 36 29 25	atients Tro Treated at 6 of 22 Grade 23, %	All Patients Any C (N=3 Any Grade, % 74 33 26 22 22	Other (+3) T TAK-788 Treated at tose ⁶ 37) Grade ±3, %



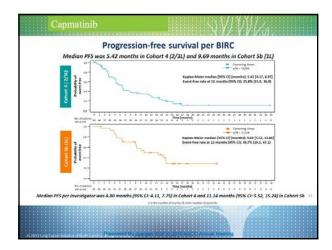














			Summary ageable safety profile
Most common adverse events- treatment related (210%, all grades), n (%)		tients 334	 Safety determined in the largest dataset of MET dysregulated¹ NSCLC patients (N=334).
	All grades	Grade 3/4	Median treatment exposure time: 14.9 weeks
Any	282 (84.4)	119 (35.6)	Capmatinib was well tolerated with few Grade 3/4 events
Peripheral edema	139 (41.6)	25 (7.5)	 Capmatinio was well tolerated with few Grade 3/4 events [only 15 patients (4.5%) had Grade 4 events]
Nausea"	111 (33.2)	6 (1.8)	Dose adjustment due to treatment related AE: 73 (21.9%)
Increased blood creatinine ¹	65 (19.5)	0	Discontinuation due to treatment related AE: 37 (11.1%)
Vomiting*	63 (18.9)	6 (1.8)	 Most frequent (≥ 1%): peripheral edema (n=6, 1.8%)
Fatigue	46 (13.8)	10 (3.0)	pneumonitis (n= 5, 1.5%) and fatigue (n=5, 1.5%)
Decreased appetite*	42 (12.6)	3 (0.9)	 Serious treatment related AEs: 43 (12.9%)
Diarrhea	38 (11.4)	1 (0.3)	
Capmatinib administered in fasting			emoved in new cohorts 6 and 7
Capmatinib is known to inhibit cre MET mutated/amplified	atinine transpo	rters	



