nab-SIROLIMUS IN PATIENTS WITH MALIGNANT PEComa PREVIOUSLY TREATED WITH mTOR INHIBITORS: EMERGING EXPERIENCE FROM AN **EXPANDED ACCESS PROGRAM**

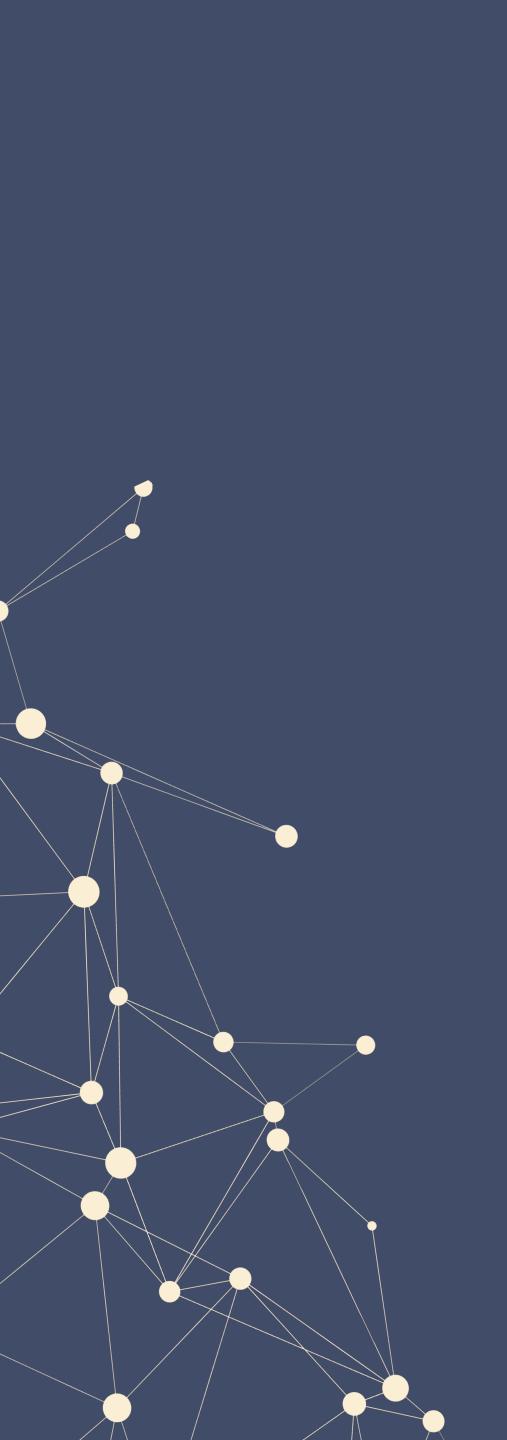
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I have no other potential conflicts of interest

DISCLOSURES

My Institution receives funding from Eli-Lilly and Aadi Bioscience Inc.



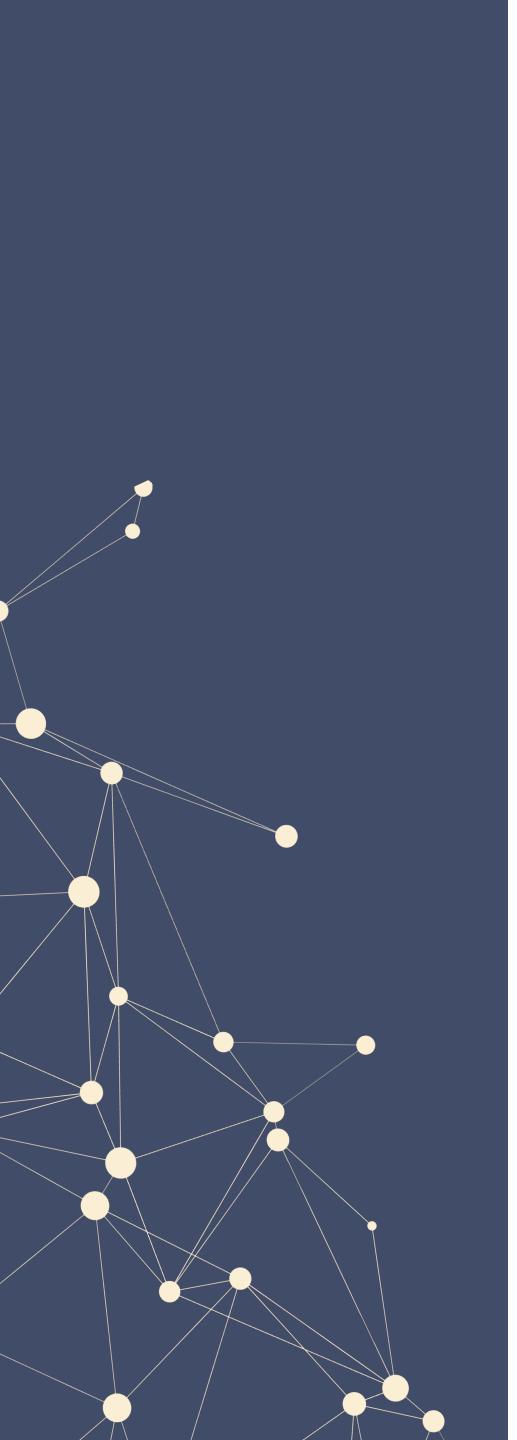


Background and Rationale

- > In the AMPECT study, patients with malignant PEComa naïve to mTOR inhibitors (mTORi) had an independent radiology review best overall response rate of 39%, and 50% of patients had a DOR exceeding 36+ months (median not reached, 5.6 - 55.5+) on long term follow up ¹
- > Preclinical models suggest that increased activity of *nab*-sirolimus over other mTOR inhibitors is related to the higher intratumoral concentrations and more complete target suppression achievable²
- > To clinically test that hypothesis, we sought to evaluate clinical benefit of *nab*-sirolimus in patients with malignant PEComa who previously failed treatment with a prior mTOR inhibitor
- > Patients were treated in an Expanded Access Program (NCT03817515) with *nab*-sirolimus at 100 mg/m² given on D1 and D8 of a 21-day cycle







- **Key Eligibility:**

 - ≥18 years old
 - **ECOG Performance Status 0–2**
- Current Analysis:

Patients

- **Histologically confirmed malignant PEComa**

Data collection

- **Post-hoc Response Analysis RECIST v1.1**
- Prior treatment history and outcome, when available
- Adverse Events, when available

Methods

Protocol Design: Multi-institutional Expanded Access for an Intermediate-size Population

Patients must have advanced metastatic perivascular epithelioid cell tumors (PEComa) or a malignancy with relevant genetic mutations or mTOR pathway activation

Prior Treatment with an mTORi, except for *nab*-sirolimus

Mutational profile by next generation sequencing, when available



Disposition and Prior mTOR Treatment History

Sixteen (16) patients with malignant PEComa who previously failed treatment with an mTORi were enrolled in the EAP between July 2019 and July 2021		· · · · ·	atment Failure an ts progressed on p oxicities; 1/16 had	rior mTORi; 1/	'16 had
Variable	Prior mTORi Treated Patients n = 16	Sminkage			
Patients with Prior mTORi Rx					
1 prior mTORi	12	Prior Respon	rior Response History		
≥ 2 prior mTORi	4		,		
Prior mTORi list : sirolimus, everolimus, temsirolimus, sapanise	ertib	Best Over		≥ 2 prior mTORi	
Patients with other therapies in addition to mTORi	5	Response	e* n = 16	n = 4	
Other Prior Rx list: axitinib + pembrolizumab, letrozole, gemci ⁻	tabine, nivolumab	PR	4 (25%)	0	
 + ipilimumab, bempegaldesleukin + nivolumab, pazopanib, sunitinib, gemcitabine + docetaxel 					
		SD	3 (19%)	2 (50%)	
		PD	8 (50%)	2 (50%)	
Patients with mTORi as last therapy prior to <i>nab</i> -sirolimus	13	NE tox	1 (6%)	-	
Lines of Prior Therapy, Median (Range)	1 (1-6)				

*for pts receiving >1 prior mTORi, response is provided for last mTORi preceding *nab*-sirolimus NE tox = pt came off for toxicity prior to any evaluation

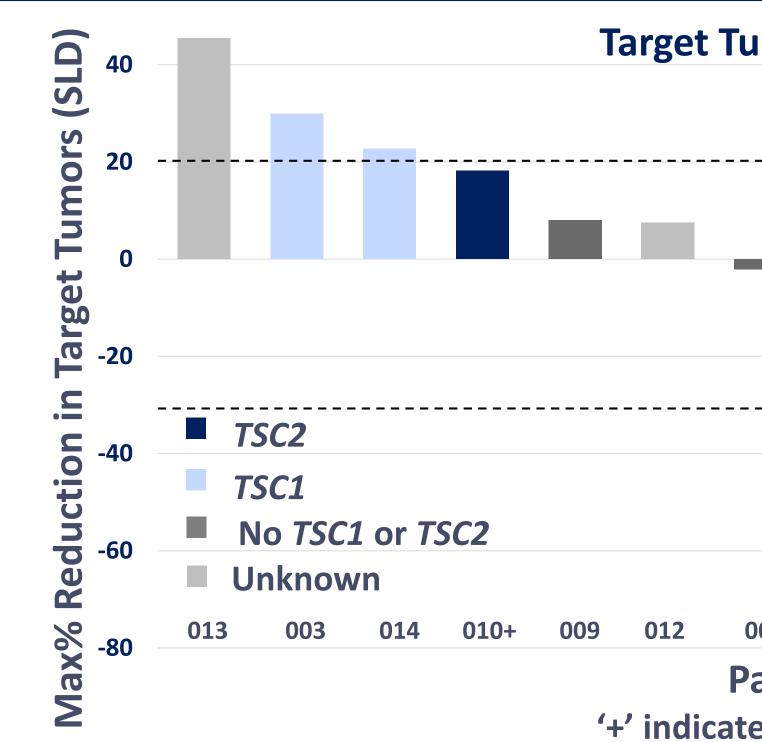




Efficacy of *nab*-Sirolimus in prior mTORi Treated Patients (N=16)

	All Patients		
Best Overall Responses			
	N = 16		
Partial Response	4/16 (25%)		
Stable Disease	8/16 (50%)		
Stable Disease ≥12 weeks	6/16 (38%)		
Progressive Disease	4/16 (25%)		

- 10/16 (63%) patients had Disease Control (CR or PR or SD ≥3 mor
- 4 *nab*-sirolimus responders:
 - BOR on prior mTORi: 1/4 SD, 2/4 PD, 1/4 NE due to toxicity
 - 2/4 had 3 prior lines of Rx

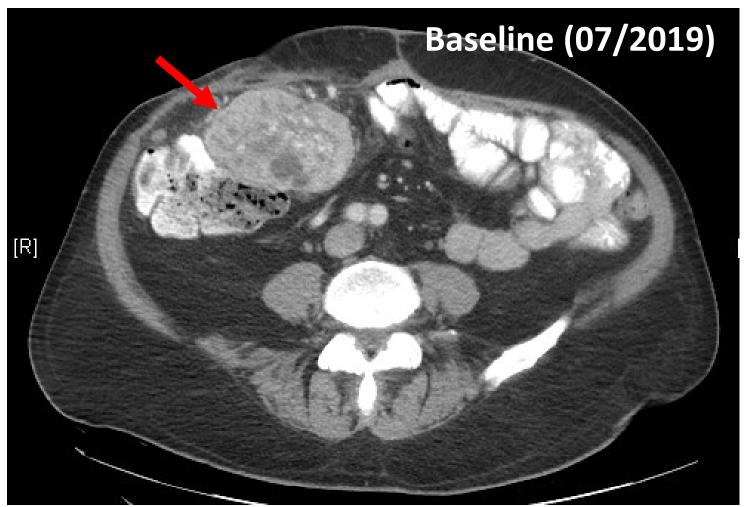


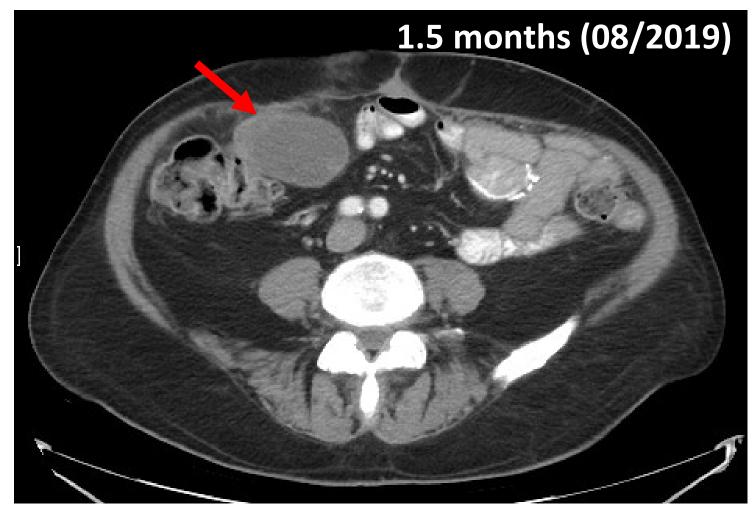
* 3 patients had Unknown mutational status; NGS reports included MSK-IMPACT, MDA Molecular Diagnostic Lab, Foundation One, Oncopanel

	Best Overall Responses Patients with NGS* (N=13)		TSC:		TSC2	Non TSC1/TSC2
			n = 3 1/3 (33		n = 6 3/6 (50 %	n = 4 %) 0
	Stable Disease		0	, ,,,	3/6 (50%	-
	Stable Disease	e ≥12 weeks	0		2/6 (33%	
	Progressive Disease		2/3 (66	6%)	0	1/4 (25%)
onths) y	 13 patients h Responders: <i>TSC1/TSC2</i> a 	4/9 (44%)		-		vs 0/4 with no
umor Measur	ements	N = 16				
007 001 004	011 008+ 0	15+ 005+	016+ (006	002+	
Patient ID						
tes ongoing pati	ient					

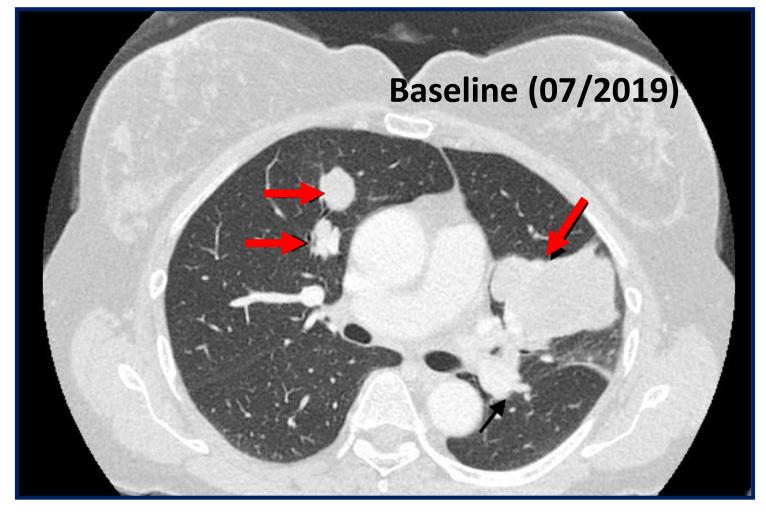
Tumor Response to nab-Sirolimus in prior mTORi Progressed Patients

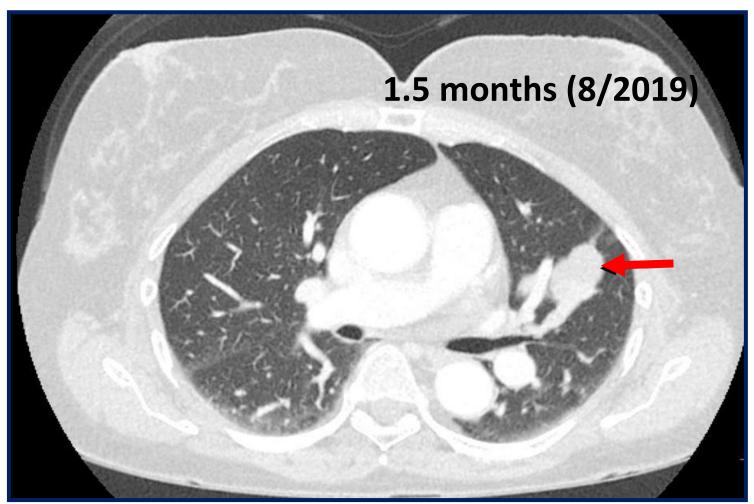
Patient #2+ TSC2, 68 yr old male; Primary site small bowel, metastatic to peritoneum. Progressed on 3 prior Rx (sirolimus, bempegaldesleukin + nivolumab, pazopanib). Images courtesy of Mark Dickson, MD. (Memorial Sloan Kettering Cancer Center)

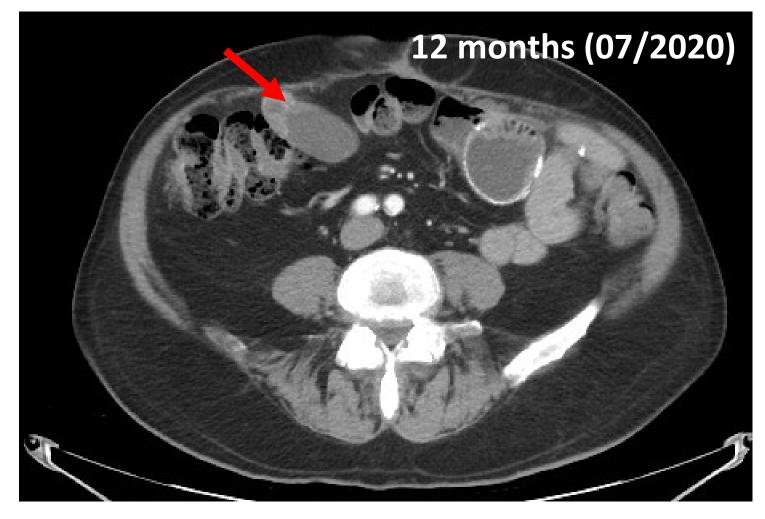




Patient #6 TSC1, 58 yr old female; Primary site lungs, metastatic to bilateral pulmonary nodules; Progressed on everolimus (BOR was PD) Images courtesy of Martina Murphy, MD. (U of Florida)



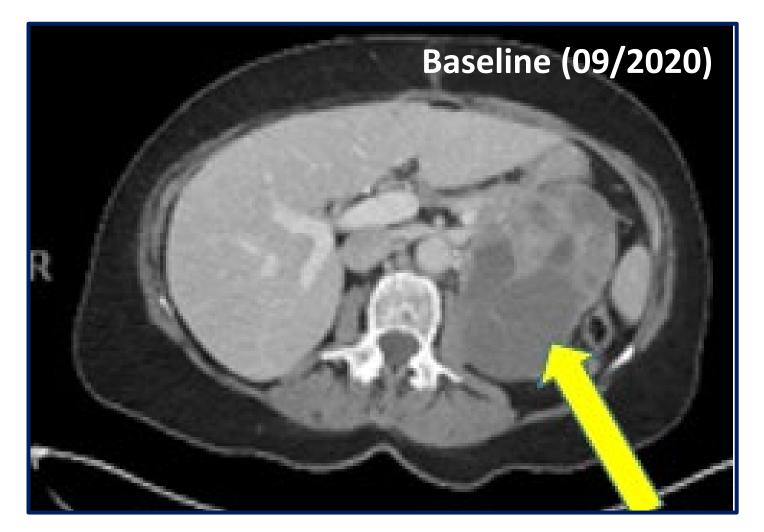


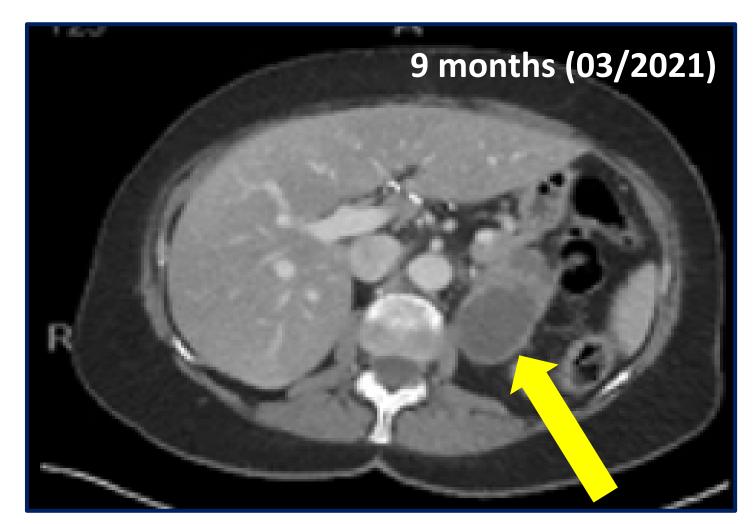




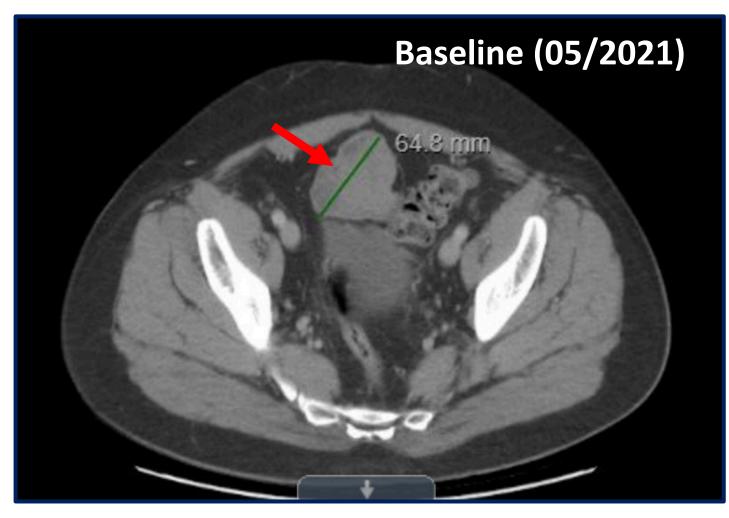
Tumor Response to *nab***-Sirolimus in prior mTORi Progressed Patients**

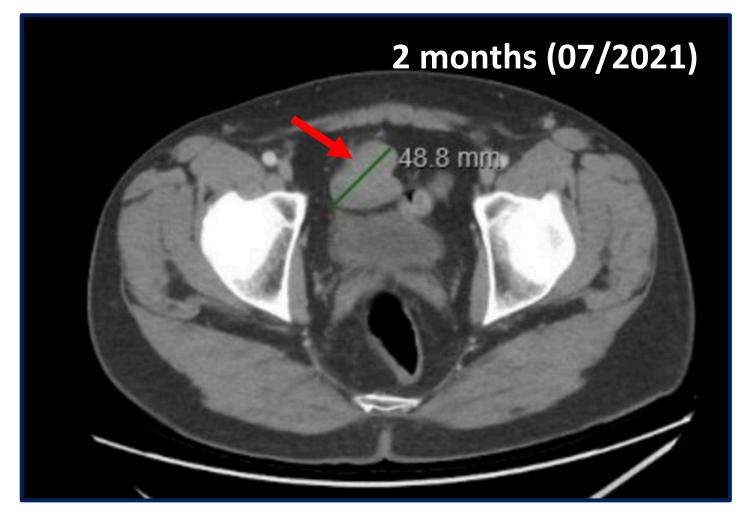
Patient #16+, TSC2, 67 yr old female; Primary site kidney, metastatic to abdomen. Progressed on 3 prior Treatments (sirolimus, everolimus, sirolimus) Images courtesy of Christopher Thomas, MD. (Wake Forest School of Medicine)

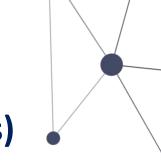




Patient #8+, No TSC1/TSC2, 43 yr old man; Primary site pelvis, metastatic to intestines. Progressed on 3 prior Rx (evero, nivo+ipi, axitinib + pembro, sunitinib) Images courtesy of Rashmi Chugh, MD. (U of Michigan)









Efficacy of nab-Sirolimus in prior mTORi Treated Patients (N=16)

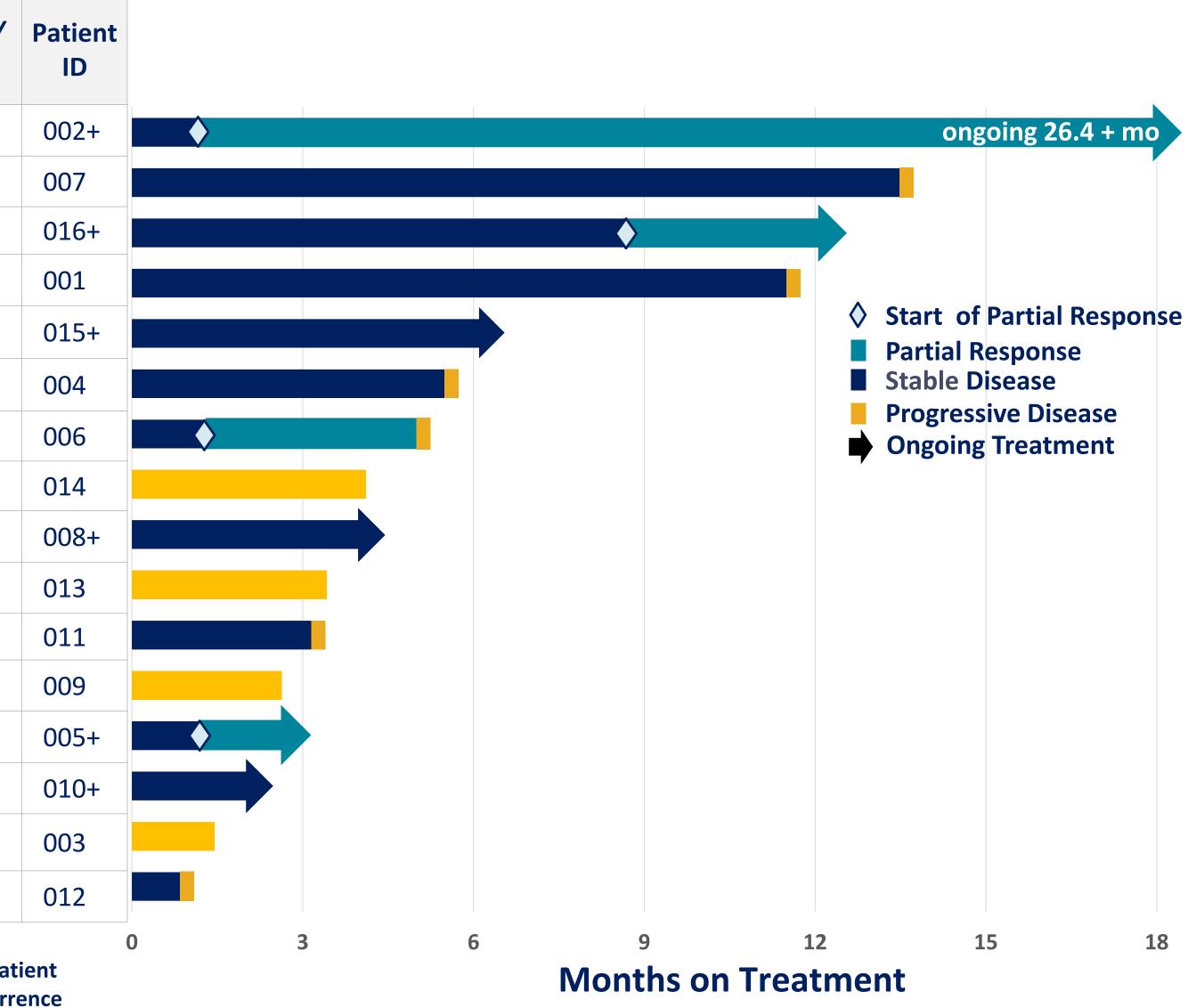
3/4 responding patients are still ongoing, range 2.6+ - 26.4+ months
 Best response to prior mTOR : 1/4 SD, 2/4 PD, and 1/4 NE

# Prior Rx	List of Prior Rx and Best Overall Response (BOR) for Each Line	BOR on prior mTOR*	TSC1 / TSC2
3	sirolimus (SD), bempegaldesleukin + nivolumab (tox NE), pazopanib (PD)	SD	TSC2
4	Everolimus (PD), nivo + Ipi (PD), axitinib + pembro (PD), sunitinib (PD)	PD	None
3	Sirolimus (PR), everolimus (tox NE), sirolimus (PD)	PD	TSC2
3	Everolimus (PD), letrozole + everolimus (PD), pazopanib (SD)	PD	TSC2
1	Everolimus (PR)	PR	None
4	Sirolimus (tox NE), gemcitabine (NE), nivo + ipilimumab (SD), temsirolimus (SD)	SD	TSC2
1	Everolimus (PD)	PD	TSC1
1	Everolimus (PD)	PR	TSC1
1	Sirolimus (PD)	PD	None
1	Everolimus (PR)	PR	UNK
1	Everolimus (PD)	PD	UNK
1	Everolimus (PD)	PD	None
1	sirolimus (tox NE)	NE tox	TSC2
1	Everolimus (PD)	PD	TSC2
3	Sirolimus (SD), ipi/nivo (PD), sapanisertib (PD), gemcitabine+docetaxel (PD), pazopanib (SD), pazopanib + sirolimus (SD)	SD	TSC1
1	Everolimus (PR)	PR	UNK

NE tox = pt came off for toxicity prior to any evaluation; NE = Not Evaluable; '+' indicates ongoing patient *BOR on last mTOR if patient had >1 prior mTOR; All patients came off of prior mTORi due to PD, except patient 005+ who had intolerable toxicities and patient 015+ who had a surgery, after which the patient had a recurrence

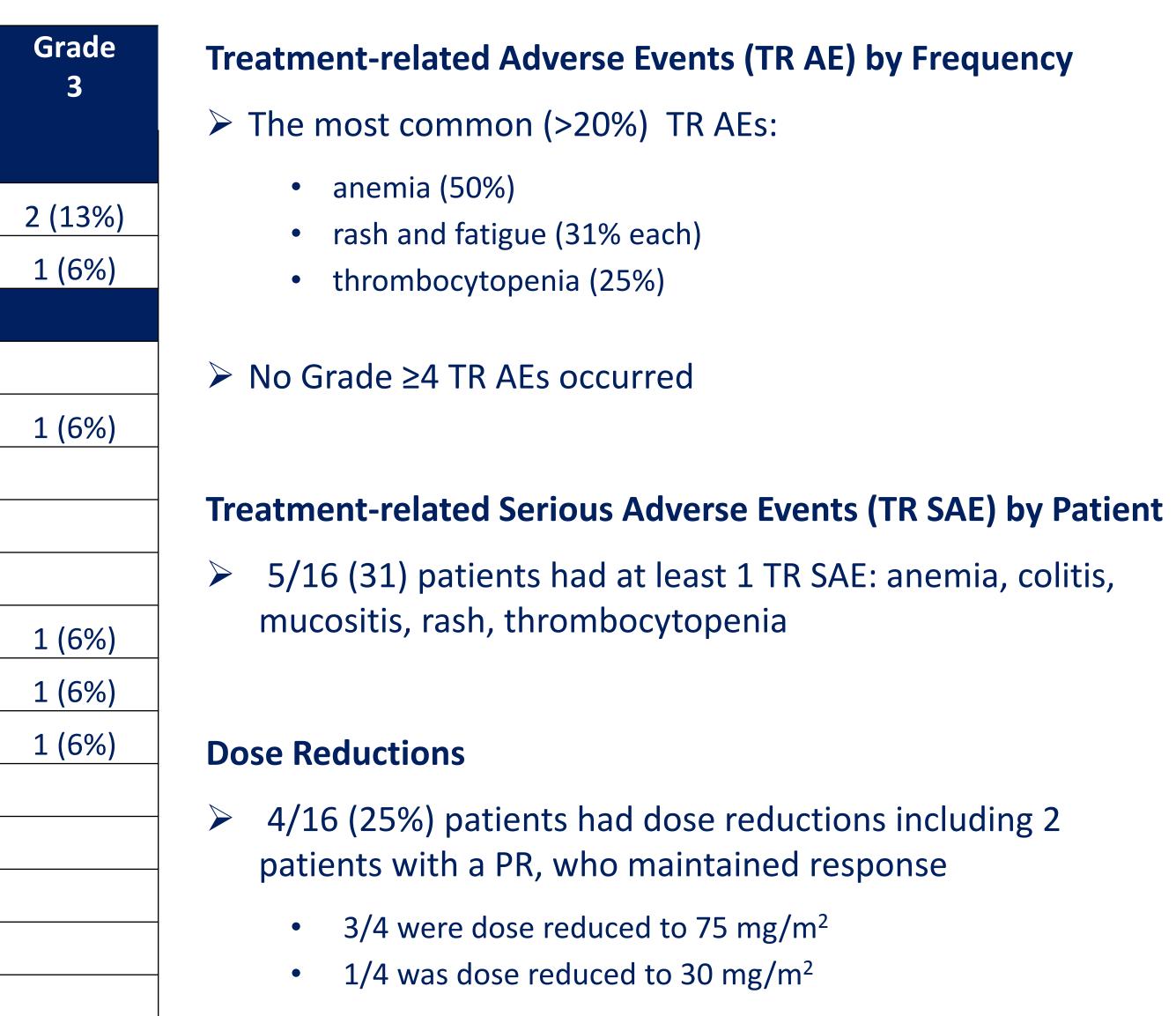
> 4/16 patients had >11 months of therapy with *nab*-sirolimus

• Best Response to prior mTOR: 1/4 had SD and 3/4 had PD



Safety of *nab*-Sirolimus in prior mTORi Treated Patients (N=16)

Adverse Events in ≥10% Patients	All Grades N = 16	Grades 1-2
Hematologic Adverse Events		
Anemia	8 (50%)	6 (38%)
Thrombocytopenia	4 (25%)	3 (19%)
Nonhematologic Adverse Events		
Fatigue	5 (31%)	5 (31%)
Rash	5 (31%)	4 (25%)
Mucositis	3 (19%)	3 (19%)
Creatinine increase	3 (19%)	3 (19%)
Edema	3 (19%)	3 (19%)
ALT	2 (13%)	1 (6%)
Alkaline phosphate incr	2 (13%)	1 (6%)
AST	2 (13%)	1 (6%)
Diarrhea	2 (13%)	2 (13%)
Hypercholesterolemia	2 (13%)	2 (13%)
Hypertension	2 (13%)	2 (13%)
Hypertriglyceridemia	2 (13%)	2 (13%)
Hypokalemia	2 (13%)	2 (13%)
Nausea	2 (13%)	2 (13%)





nab-Sirolimus in Patients with Malignant PEComa Previously Failing Treatment with an mTOR Inhibitor

- *nab*-Sirolimus showed encouraging clinical benefit including Partial Responses in patients previously failing other mTOR inhibitors as well as other targeted therapies in an Expanded Access Program
- Safety profile of nab-sirolimus appears to be acceptable and allowed ongoing treatment for approximately 1 year or more in several patients
- > Partial Response occurred in 25% of patients
- ➢ Disease Control Rate (CR/PR + SD≥3 months) was 63%
- Consistent with results from AMPECT, TSC1 or TSC2 alterations were associated with response (4/9, 44%) despite prior progression on mTOR and/or multiple lines of prior therapy
- > A tumor-agnostic study is planned for patients with pathogenic inactivating TSC1 or TSC2 alterations





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