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Nanobiotix KOL Call to Discuss the Role of NBTXR3 and Immune Oncology in Advancing Head & Neck Cancer

June 18, 2024

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Agenda

Welcome – Craig West, SVP Investor Relations

Introductions and Agenda – Jeffery Bockman, PhD

How NBTXR3 works and its local and systemic responses – Sébastien Paris, PhD

How patients present and are treated in this setting; unmet needs – Ari Rosenberg, MD

NBTXR3 in R/M HNSCC, the 1100 study – Colette Shen, MD, PhD

Q&A and Panel Discussion - All

Conclusion



Introductions



Colette Shen, MD, PhD

University of North Carolina Lineberger Comprehensive Cancer Care Center



Ari Rosenberg, MD University of Chicago School of Medicine



Sébastien Paris, PhD Nanobiotix



Jeffrey Bockman, PhD Lumanity



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How NBTXR3 Works and its Local and Systemic Responses – Sebastien Paris, PhD

NBTXR3: A First-In-Class Radioenhancer

Aqueous suspension of inorganic crystalline hafnium oxide (HfO₂) nanoparticles

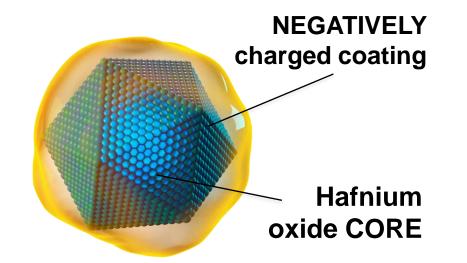
High atomic number (Z=72) and electron density

Inert in the absence of ionizing radiation: "Off "status Activated by ionizing radiation: "On" status

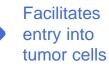
One-time intratumoral administration, remains in tumor

Efficacy and safety demonstrated in a randomized Phase 2/3 trial in locally advanced soft tissue sarcoma¹

Universal mode of action targeting all solid tumors



Negative surface charge for stability at neutral pH in aqueous medium
+ Nanometer scale to fit inside cell

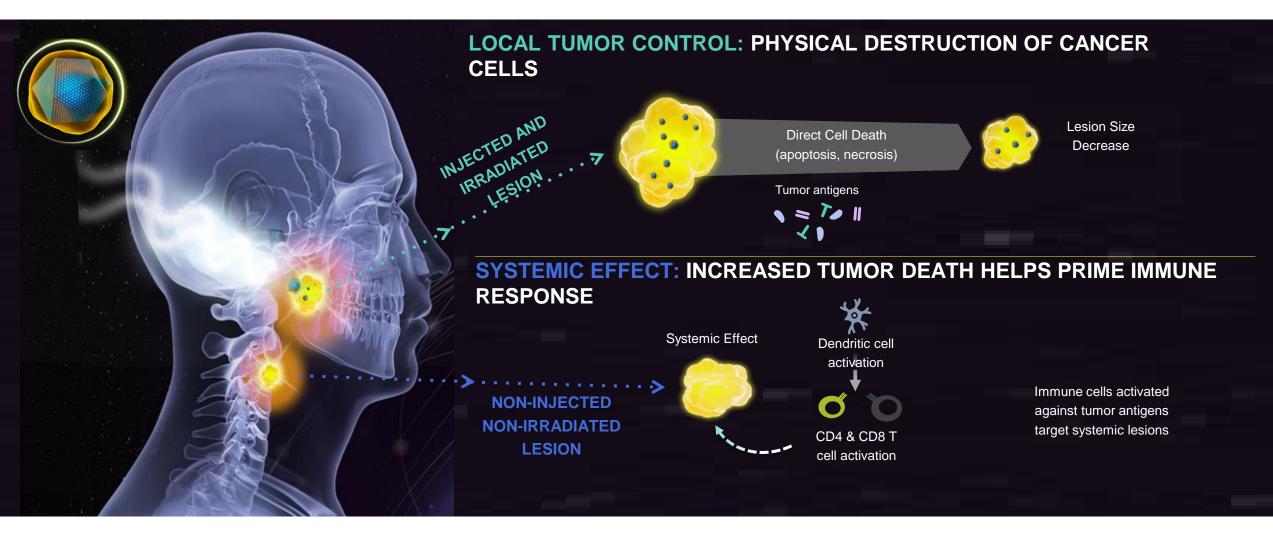


High atomic number (72) and high e⁻ density

Increased local absorption of ionizing radiation

Local Cell Destruction Induced by NBTXR3 Activates Immune Priming

Local and systemic benefits through cell death and immune activation against tumor antigens





Potential Tumor-Agnostic, Combination-Agnostic Treatment

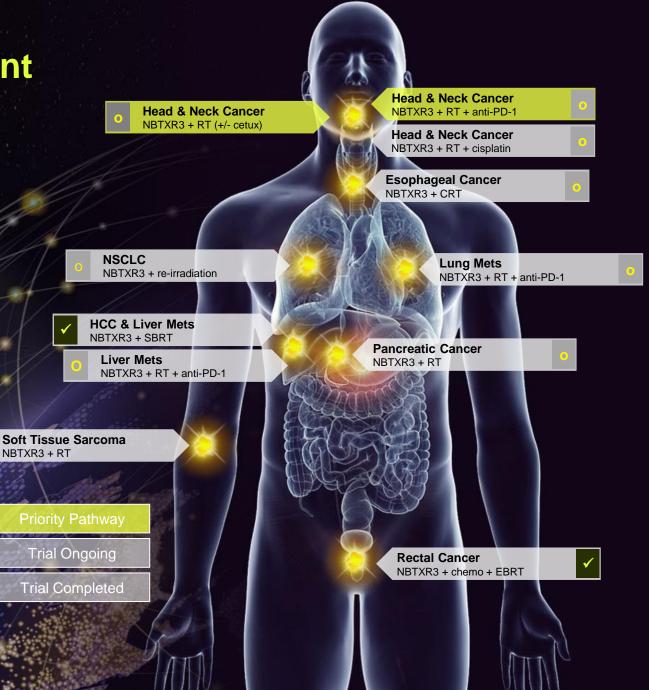
PoC when activated by RT alone, positive Ph 3 in STS

Potential for multiple SOC, including IO

100+ Clinical sites worldwide

Hundreds of patients treated, showing safety, feasibility and consistent tumor response

Bonvalot (2019) Lancet Oncol PMID: 31296491



Pipeline-in-a-Product Strategy

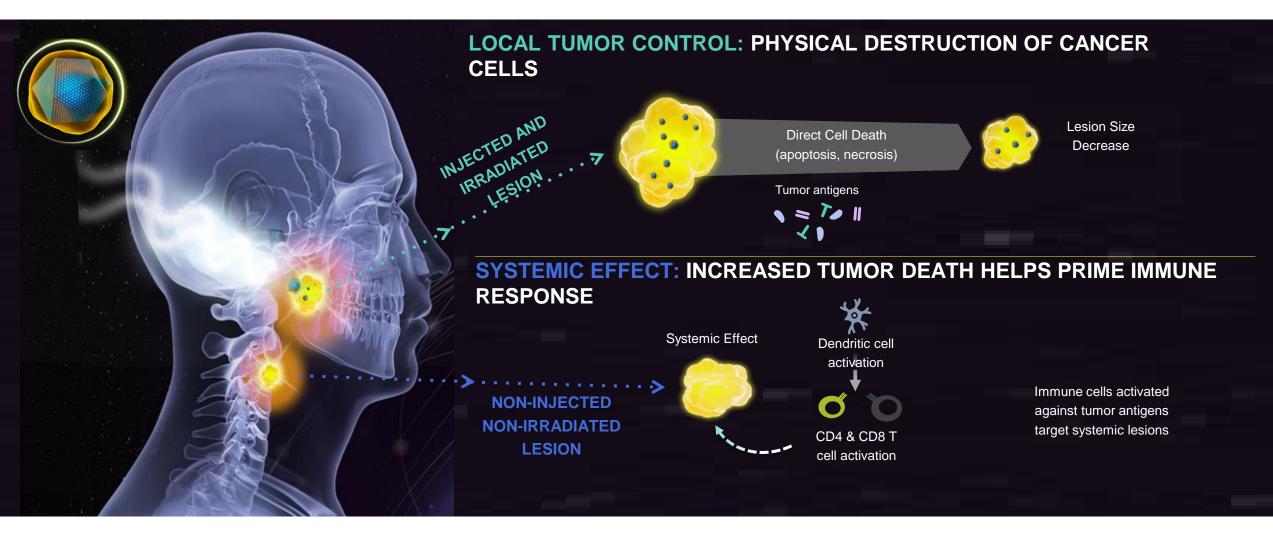
Patients (Current Study)	Ν	Phase 1	Phase 2	Phase 3	Operational Sponsor				
Head & Neck									
Elderly Cisplatin-ineligible (NANORAY-312, RT-R3 +/- cetuximab vs RT +/- cetuximab)	500				Nanobiotix Janssen				
R/M IO Naïve (Study 1100, RT-R3 fb anti-PD-1)	35+				Nanobiotix				
R/M IO Resistant (Study 1100, RT-R3 fb anti-PD-1)	35+				Nanobiotix				
R/M (MDA-0541, RT-R3 fb anti-PD-1)	60				MD Anderson Cancer Center				
Lung									
Inoperable, Stage 3	NA				Janssen				
Inoperable, Recurrent (MDA-0123, Reirradiation RT-R3)	24				MD Anderson Cancer Center				
Expansion Opportunities									
Soft Tissue Sarcoma (Act.In.Sarc, RT-R3 fb resection)	180				Nanobiotix				
Rectal (Study 1001, RT-R3 concurrent CT)	32				Nanobiotix				
Advanced Solid (MDA-0618, RT-R3 with anti-PD-1)	40				MD Anderson Cancer Center				
Cisplatin-eligible H&N (Study 1002, RT-R3 concurrent CT)	12				Nanobiotix				
HCC & Liver Mets (Study 103, RT-R3)	23				Nanobiotix				
Pancreas (MDA-1001, RT-R3)	24				MD Anderson Cancer Center				
Esophageal (MDA-0122, RT-R3 concurrent CT)	24				MD Anderson Cancer Center				
IO Resistant Multiple Primary Tumors (Study 1100, RT-R3 fb anti-PD-1)	35+				Nanobiotix				



Nanobiotix granted Janssen a worldwide license for the development and commercialization of NBTXR3 as announced July 10, 2023; IO Resistant Mets: Metastases from different primary tumors in IO resistant patients; RT-R3: RT activated NBTXR3; fb: followed by; CT: chemotherapy.

Local Cell Destruction Induced by NBTXR3 Activates Immune Priming

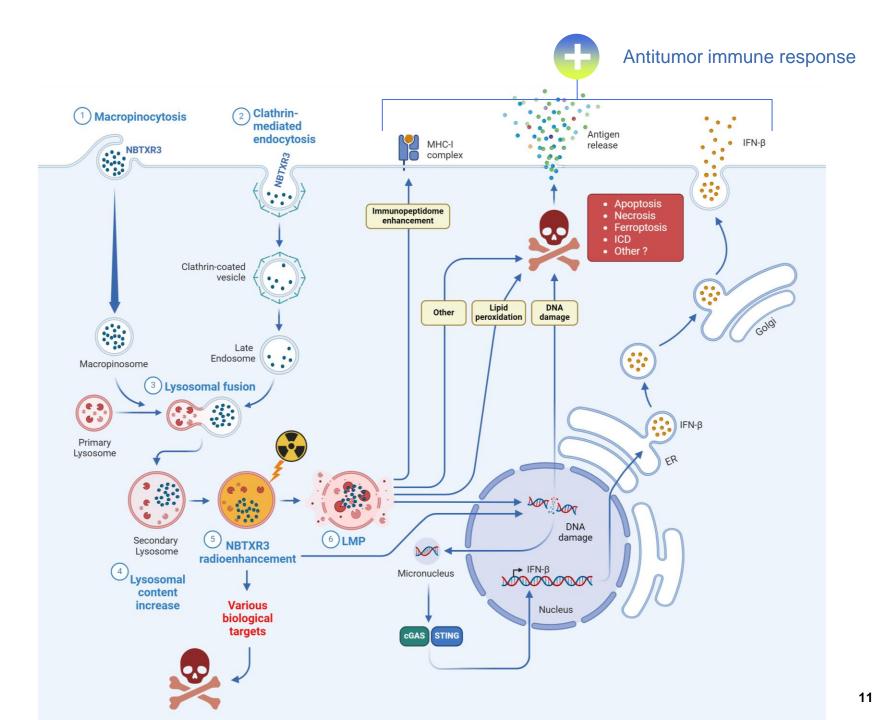
Local and systemic benefits through cell death and immune activation against tumor antigens





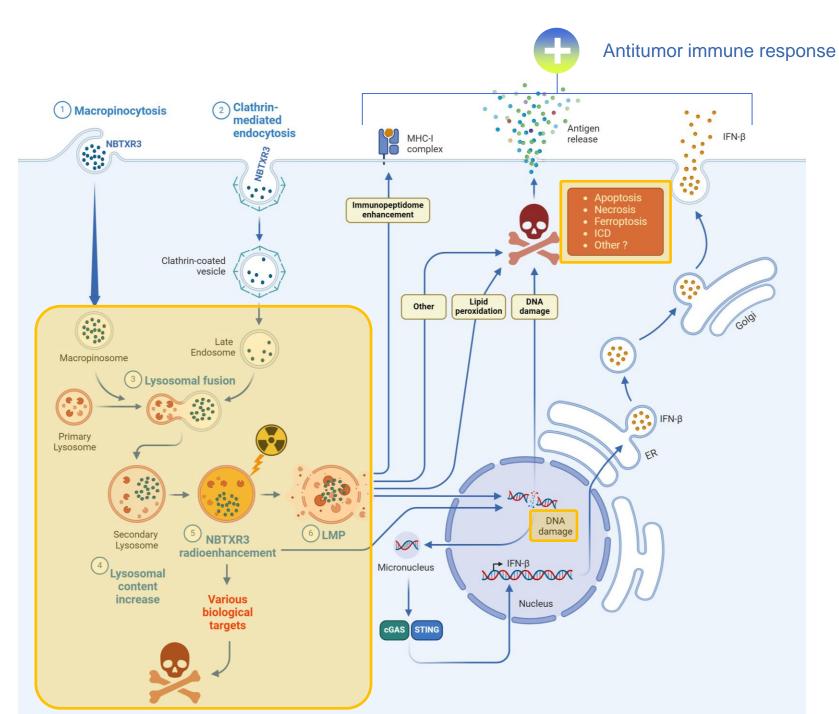
Physical and pleiotropic universal mode of action

Da silva (2024) JECCR PMID: 38173001



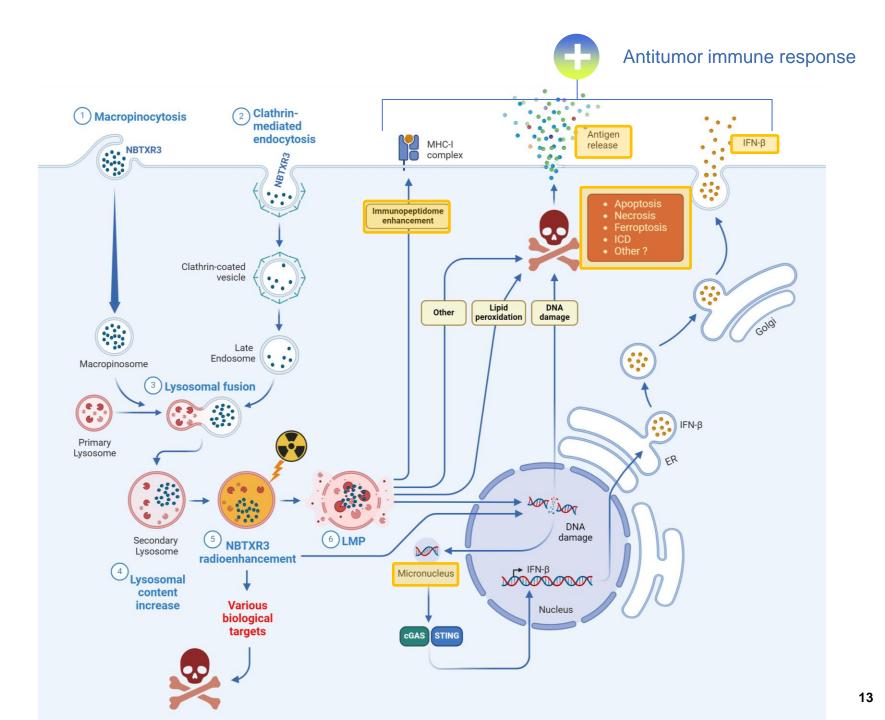
Physical and pleiotropic universal mode of action

Da silva (2024) JECCR PMID: 38173001



Subsequent priming of antitumor immune response via multiple pathways

Da silva (2024) JECCR PMID: 38173001



Direct cell death enhancement leading to improved local control

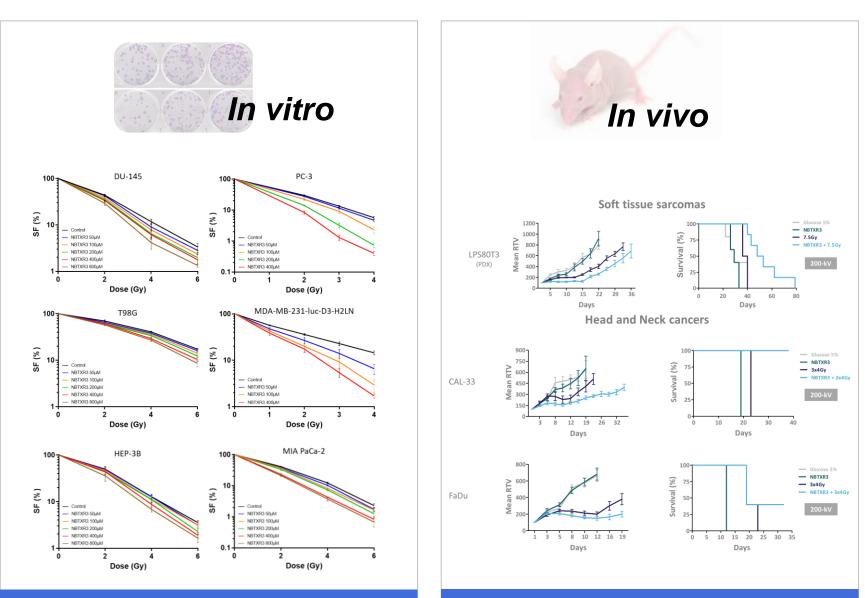
Zhang (2021) Int J Nanomedicine PMID: 33880022; Zhang (2020) Int J Nanomedicine PMID: 32581534; Marill (2019) Radiotherapy & Oncology PMID: 31439450; Marill (2014) Radiation Oncology PMID: 24981953; Maggiorella (2012) Future Oncol. PMID: 23030491

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NBTX

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⇒ 15 cancer cell lines tested

Multiple pathways priming the immune response

Darmon (2022) Cancer Cell Int. PMID: 35659676

AACR 2019 SITC 2022

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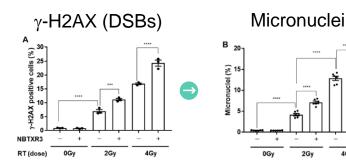
Marill (2019) Radiotherapy & Oncology PMID: 31439450

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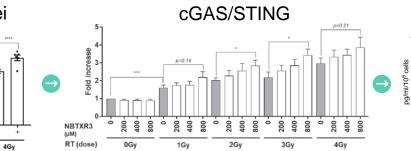
NBTX

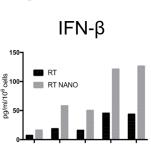
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HCT116 cells



DNA damages, cGAS/STING activation and IFN- β secretion

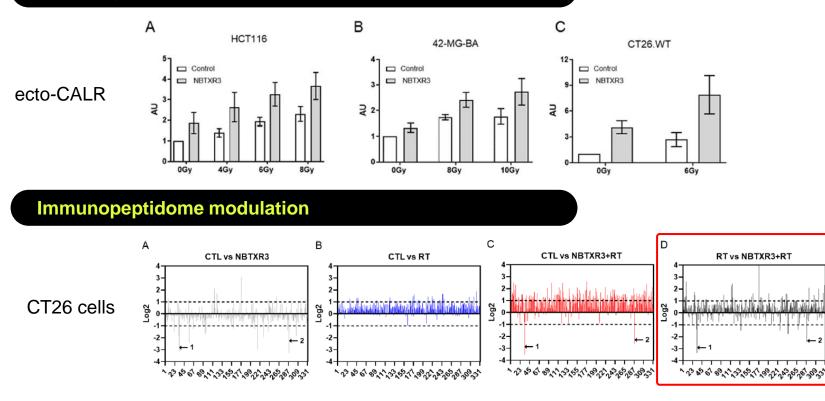




Radiation Dose (Gy)

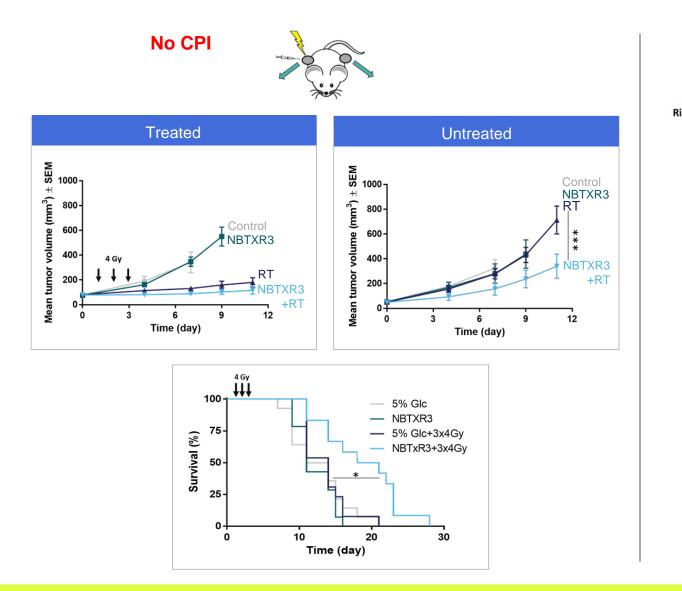
Weill Cornell Medicine

Immunogenic Cell Death (ICD)



NBTXR3+RT Achieves Immune Effects that RT Alone Cannot Accomplish

Direct antitumor response and immune priming lead to systemic response

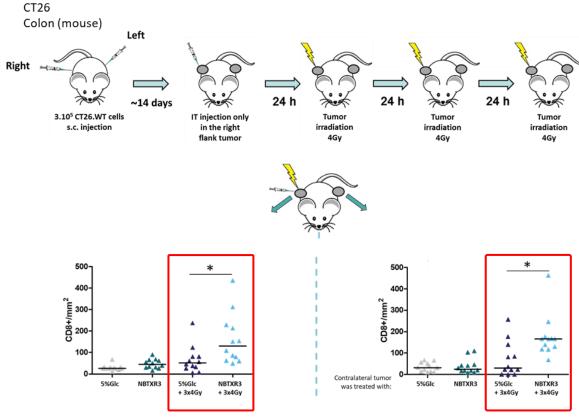


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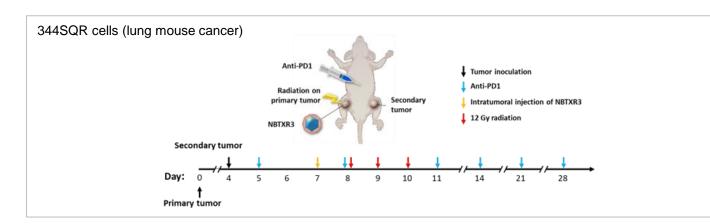
NBTX

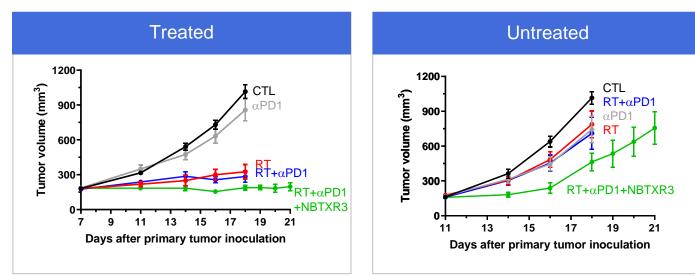
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NBTXR3 Overcomes Anti-PD-1 Resistance

Combination with checkpoint inhibitors in anti-PD-1 resistant model



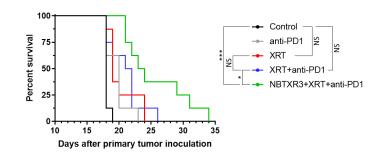


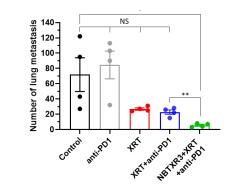
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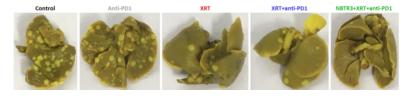
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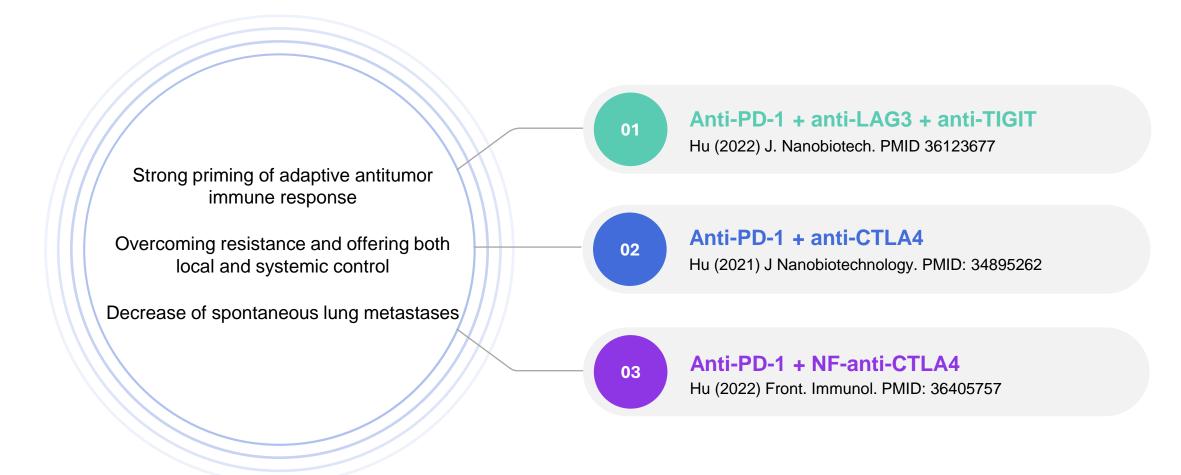






NBTXR3 Overcomes Anti-PD1 Resistance

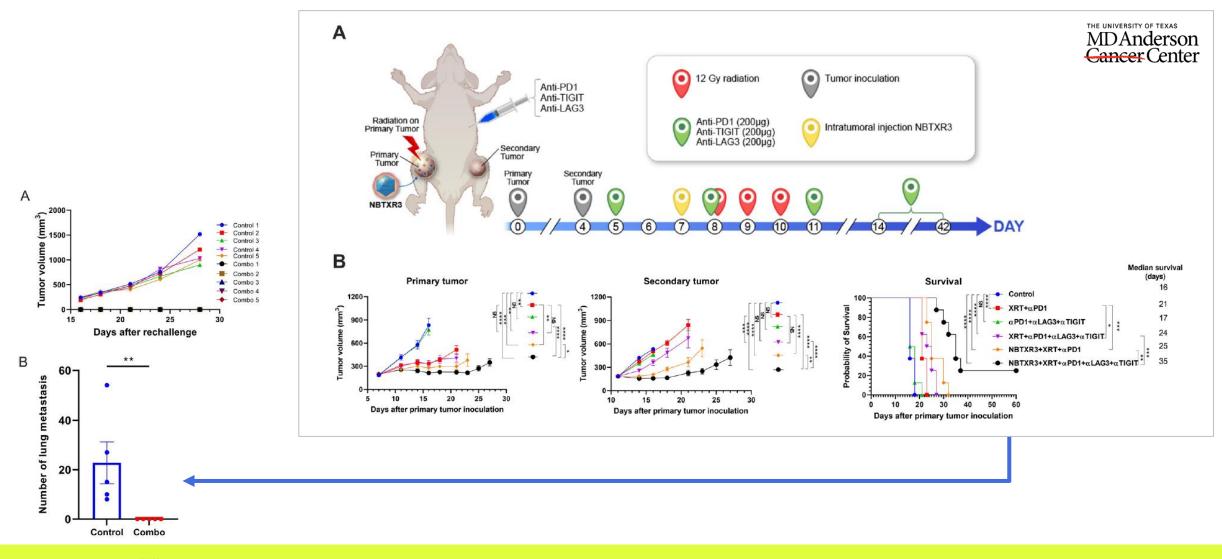
Combination with checkpoint inhibitors in anti-PD-1 resistant model





Efficient Antitumor Immune Response by NBTXR3 and CPIs Triggers Long Lasting Memory Response

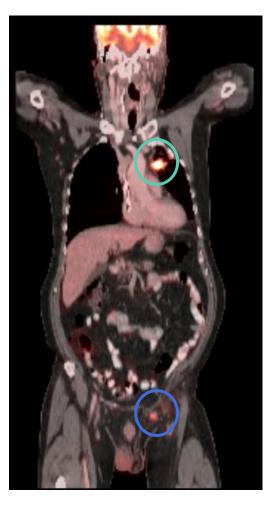
Combination Anti-PD-1 + Anti-TIGIT + Anti-LAG3 in anti-PD-1 resistant model





NBTXR3 Achieves Both Local & Systemic Control in PD-1 Refractory Patient

SITC 2022: Anti-PD-1 resistant patient case study



PET Baseline

NBTX

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PET Follow-Up Visit 1

Patient progressing at enrollment after ~ 1-year anti-PD-1 treatment

Target Lesion

PR in injected and irradiated tumor

Non-Target Lesion

CR in non-injected and non-irradiated distal lesion suggesting systemic response

20



Challenges and Opportunities in Recurrent/Metastatic Head and Neck Cancer

Ari Rosenberg, MD Assistant Professor of Medicine The University of Chicago

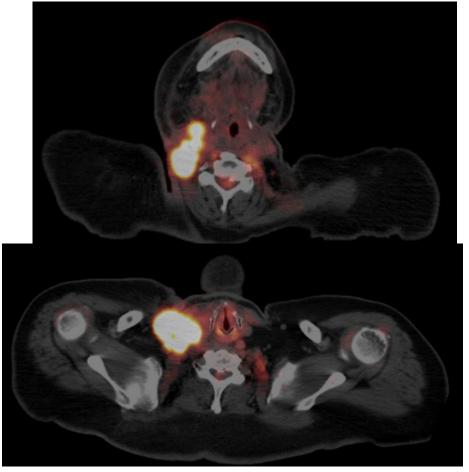
Disclosures

- Consulting/advisory: Galectin, Privo, Nanobiotix, EMD Serono, Vaccitech, Novartis, Eisai, Astellas, Regeneron, Coherus.
- Research funding: Hookipa, EMD Serono, Purple Biotech, BeiGene, BMS/Celgene, AbbVie, Nanobiotix, Seagen.



DJ: 68 yo W with recurrent HNSCC

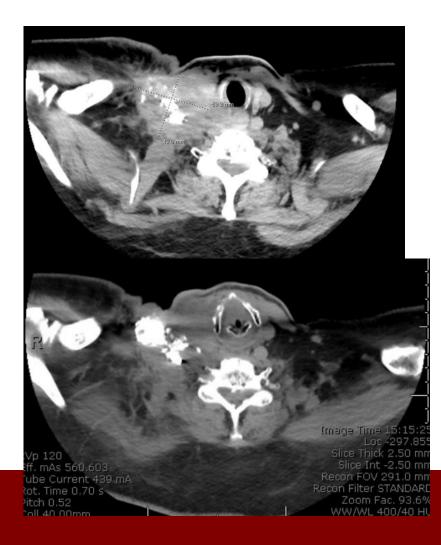
- 2016: Diagnosed with T3N3 SCC of supraglottis treated with induction chemotherapy followed by chemoradiation (TFHX) and salvage neck dissection with pCR.
- 2020: Enlarging neck mass biopsy demonstrating SCC, PD-L1 CPS 0





Disease regression with NBTXR3/SBRT/IO

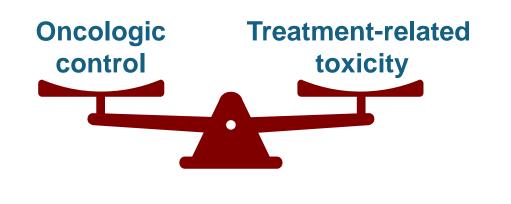
- Enrolled on 1100 study
- Injected with NBTXR3 -> SBRT -> Nivolumab
- Completed 2 years of IO treatment without disease progression

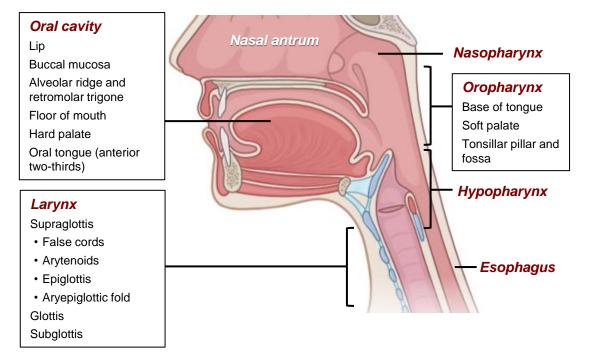




Patients with SCCHN are treated with curative intent minimizing toxicities and preserving organ function^{1,2}

- Goals:
 - Cure
 - Function/QoL
- Treatment approaches:
 - Systemic therapy
 - Radiotherapy

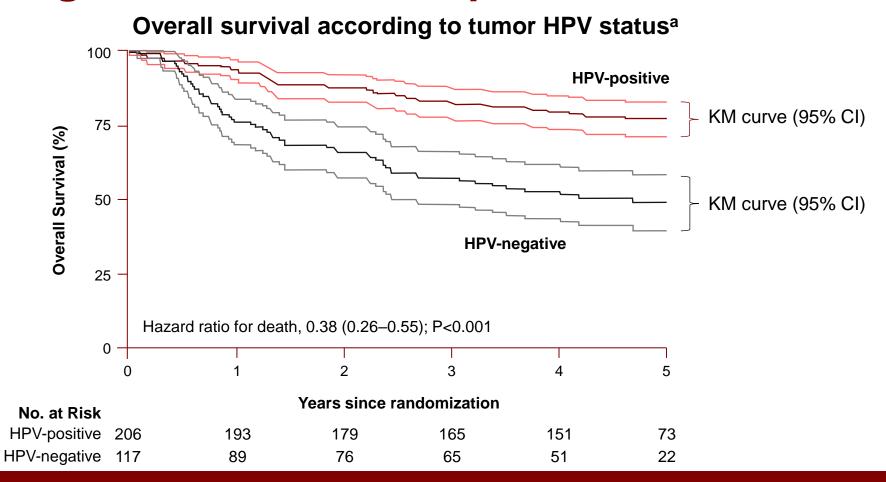






LA SCCHN, locally advanced squamous cell carcinoma of the head and neck; QoL, quality of life. 1. Machiels J-P. *Ann Oncol.* 2020;31(11):1462–1475; 2. Johnson DE et al. *Nat Rev Dis Primers*. 2020;6(1):92. 25

Despite curative-intent treatment, survival in patients with HPV-negative LA SCCHN is poor¹





^ap16-expression status. CI, confidence interval; HPV, human papillomavirus; KM, Kaplan-Meier; LA SCCHN, locally advanced squamous cell carcinoma of the head and neck.

Standard of Care for Locoregionally Advanced HNSCC

- **Oral Cavity:** Surgery, +/- Radiation, +/- Chemo
- Oropharynx: Radiation + Chemotherapy vs TORS +/- Radiation and Chemotherapy
- Larynx: Radiation + Chemotherapy vs. Laryngectomy
- Nasopharynx: Chemotherapy + Radiation +/- induction (and/or adjuvant) chemotherapy (immunotherapy evolving role)
- **Definitive Radiation Dose** ~66-75 Gy
- Adjuvant Radiation Dose ~60-66 Gy Standard Chemotherapy -Cisplatin

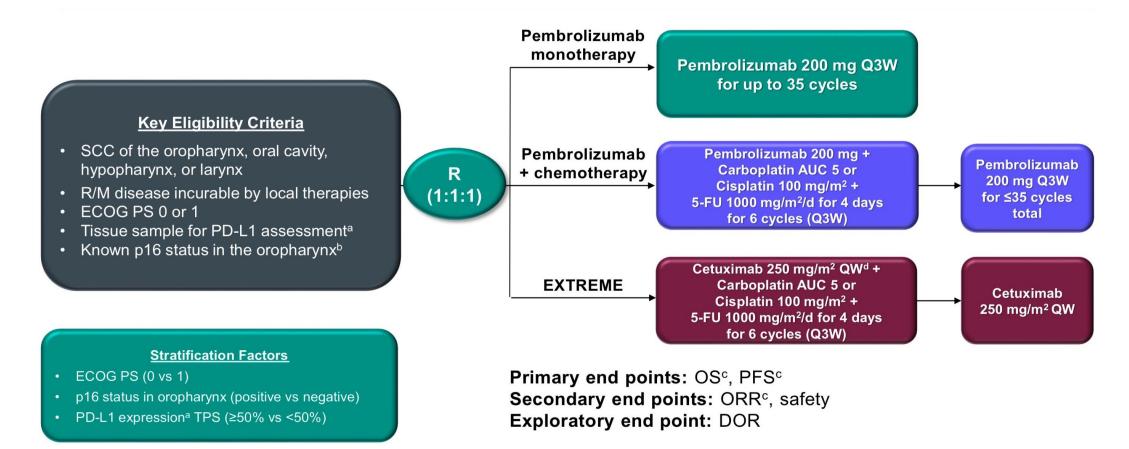


Recurrent and/or Metastatic HNSCC is associated with poor survival

- Patients can develop locoregionally recurrent and/or distant metastatic disease
 - » Approximately 1/3 Locoregionally recurrent only
 - » ~1/3 Distant metastatic disease only
 - » ~1/3 both locoregionally recurrent and distant metastatic
- Median survival: ~11-13 months



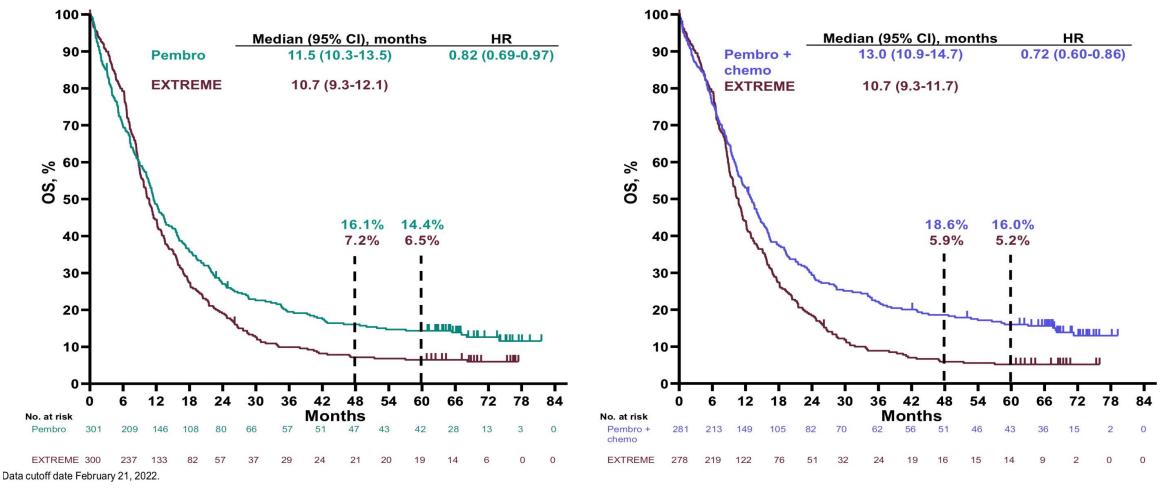
KEYNOTE048 – Study Design



Median follow-up was 69.2 mo (range, 61.2-81.6) for pembrolizumab versus EXTREME and 68.6 mo (range, 61.2-82.1) for pembrolizumab + chemotherapy versus EXTREME. Assessed using PD-L1 IHC 22C3 pharmDx (Agilent Technologies). TPS = percentage of tumor cells with membranous PD-L1 expression. bAssessed using the CINtec p16 histology assay (Ventana); cut point for positivity = 70%. cAnalyzed in PD-L1 CPS \geq 1, PD-L1 CPS \geq 20, and total populations. ^dAfter a loading dose of 400 mg/m². Data cutoff date February 21, 2022. Burtness B et al. Lancet. 2019;394:1915-1928.

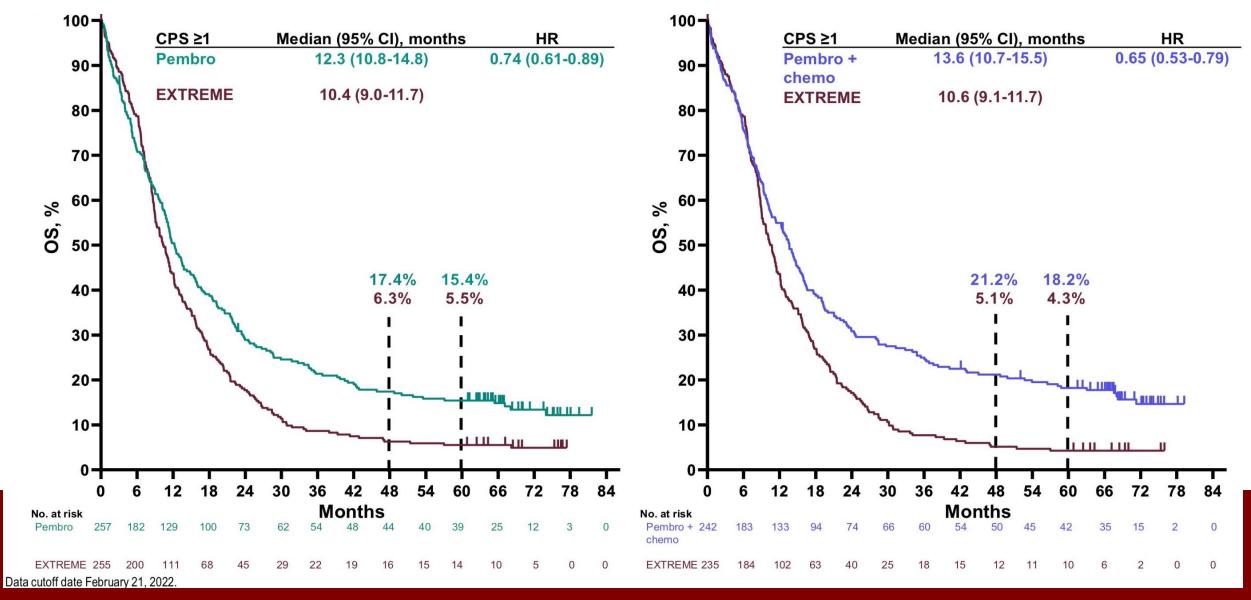


Overall Survival IIT Population





Overall Survival in PD-L1 CPS \geq **1 Population**



Benefit to pembrolizumab in PD-L1 negative less clear: Keynote-048 subset analysis

	- 100 - 90 - 80	Mar 1	_	CPS < 1			No. of Eve No. of Patier		Median PFS, onths (95% CI) ^e	^b HR (95% Cl) ^b	Nominal P ^c		
	70 -			Pembrolizumab-chemotherapy Cetuximab-chemotherapy			38/39 (97.4)		4.7 (3.4 to 6.2)	1.46 (0.93 to 2.30)	.94898		
PFS (%)	60 - 50 - 40 - 30 - 20 - 10 -						39/43 (90	ш,) 6.2 (5.0 to 7.3)				
	(0 5	1(0 15	20	25	30	35	40				
	_	PD-L1 CPS < 1						-	I	PD-L1 CPS 1-19			
	_	Pembrolizumab Versus Cetuximab-Chemotherapy			Pembrolizumab-Chemotherapy Versus Cetuximab-Chemotherapy ^a			Pembrolizumab Versus Cetuximab-Chemotherapy			Pembrolizumab-Chemotherapy Versus Cetuximab-Chemotherapyª		
Confirmed Best Objective Response	1.1	Pembrolizumab (n = 44)	Che	etuximab- emotherapy n = 45)	Pembrolizuma Chemotherap (n = 39)		Cetuximab- hemotherapy (n = 43)	Pembrolizu (n = 124		erapy Chemothera	py Chemotherapy		
Objective response ^b													
No. (%)		2 (4.5)	1	9 (42.2)	12 (30.8)		17 (39.5)	18 (14.5) 45 (33	.8) 34 (29.3)	42 (33.6)		
95% CI		0.6 to 15.5	27	.7 to 57.8	17.0 to 47.6	5 2	25.0 to 55.6	8.8 to 22	.0 25.9 to 4	42.5 21.2 to 38	.5 25.4 to 42.6		
CR, No. (%)		(0)		1 (2.2)	1 (2.6)		1 (2.3)	4 (3.2)	3 (2.3	3) 4 (3.4)	3 (2.4)		
PR, No. (%)		2 (4.5)		.8 (40.0)	11 (28.2)		16 (37.2)	14 (11.3) 42 (31.	.6) 30 (25.9)	39 (31.2)		
SD, No. (%)		10 (22.7)		.8 (40.0)	14 (35.9)		18 (41.9)	32 (25.8	3) 41 (30.	.8) 35 (30.2)) 39 (31.2)		
Progressive disease, No. (%)		22 (50.0)		4 (8.9)	6 (15.4)		4 (9.3)	58 (46.8) 21 (15.	.8) 23 (19.8)	20 (16.0)		
Non-CR/non-PD, No. (%)		3 (6.8)		0 (0)	2 (5.1)		0 (0)	3 (2.4)	5 (3.8	3) 7 (6.0)	4 (3.2)		
Not evaluable or assessed, No. (%	5)	7 (15.9)		4 (8.9)	5 (12.8)		4 (9.3)	13 (10.5) 21 (15	.8) 17 (14.7)	20 (16.0)		
ICagome		CITE											

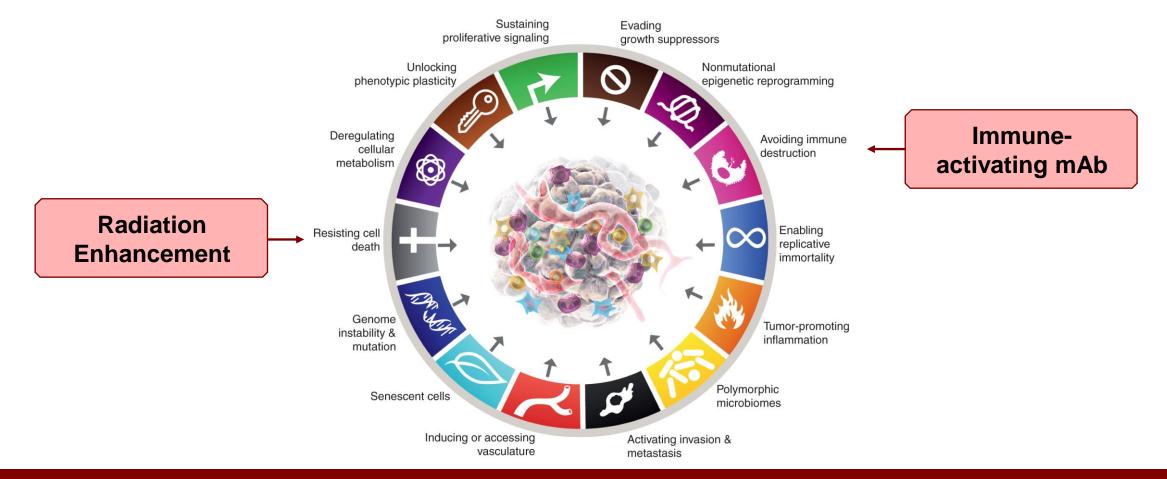
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Standard of Care Treatment approach in R/M HNSCC

- Front-line treatment
 - >> PD-L1 CPS >= 1: Pembrolizumab +/- chemotherapy
 - » PD-L1 CPS <1: Pembro+chemo or Cetuximab+chemo</p>
 - » Chemotherapy: Platinum+5-FU or Platinum+Taxane
- Subsequent-line treatment (regardless of PD-L1)
 - » Cetuximab +/- chemotherapy
 - » Pembrolizumab +/- chemotherapy
- Radiation: Palliative role



Resisting cell death and avoidance of immune destruction are key hallmarks of cancer¹

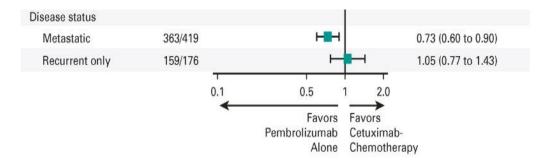


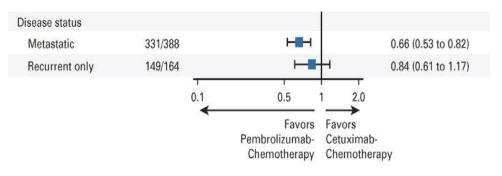


Unmet need and opportunities

- Locoregionally recurrent disease is associated with substantial morbidity and very difficult to treat
- Novel combinations with pembrolizumab in PD-L1 enriched
- Novel treatment approach post-IO and platinum treatment failure
- Multimodality treatment approaches in R/M HNSCC setting







Conclusions

- Approximately ½ of pts with locoregionally advanced disease treated with curative intent will ultimately recur
- Survival is poor for recurrent/metastatic disease
- Locoregionally recurrent disease is a unique challenge with substantial morbid impact on function and QoL
- Opportunities for novel multimodality treatment approach to improve pt outcomes



NBTXR3 in R/M HNSCC, the 1100 Study – Colette Shen, MD, PhD

2024 **ASCO** Annual Meeting

Abstract #6035

Early signs of efficacy in patients with anti-PD-1 naïve and anti-PD-1 resistant HNSCC treated with NBTXR3/SBRT in combination with nivolumab or pembrolizumab in the phase I trial Study 1100

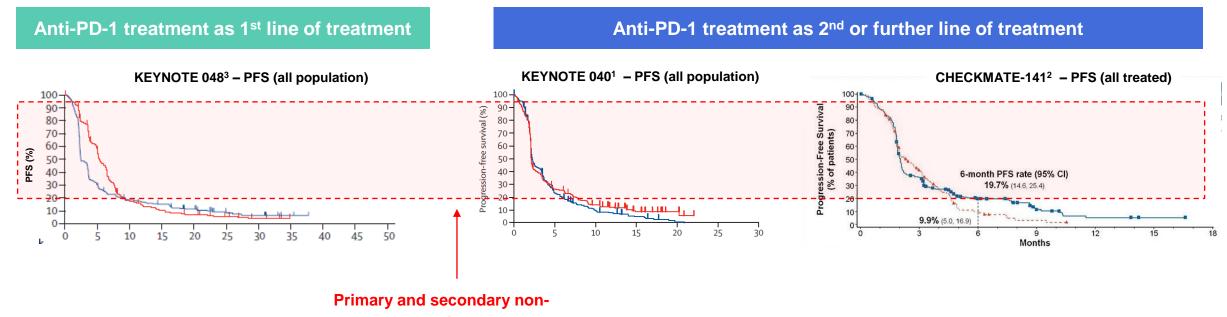
Colette Shen¹, Jessica Frakes², Trevor Hackman¹, Jiaxin Niu³, Jared Weiss¹, Jimmy Caudell², George Yang², Tanguy Seiwert⁴, Paul Chang⁵, Septimiu Murgu⁵, Siddharth Sheth¹, Shetal Patel¹, Kedar Kirtane², David Rolando⁶, Pavel Tyan⁶, Omar I. Vivar⁶, Zhen Gooi⁵, Aditya Joolori⁵, Ari Rosenberg⁵

¹University of North Carolina School of Medicine, Chapel Hill, North Carolina, USA; ²Moffitt Cancer Center, Tampa, Florida, USA; ³Banner MD Anderson Cancer Center, Gilbert, Arizona, USA; ⁴Johns Hopkins Medicine, Baltimore, Maryland, USA; ⁵The University of Chicago, Chicago, Illinois, USA; ⁶Nanobiotix, SA, Paris, France

Disclosures

- Consulting: Nanobiotix, Johnson & Johnson, GT Medical Technologies
- Research funding: AstraZeneca

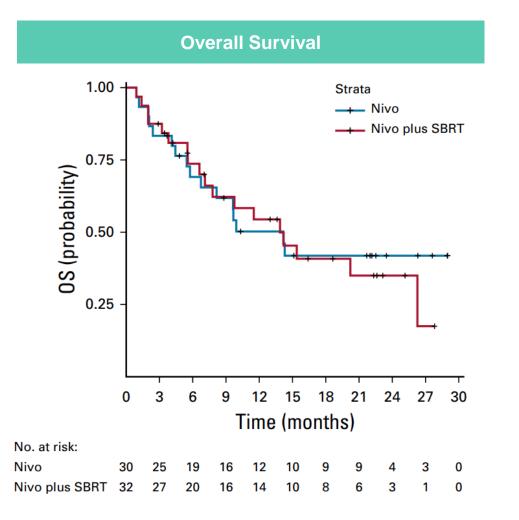
Outcomes Remain Limited for Patients Treated With Anti-PD-1 in 1st, 2nd or Further Lines of treatment: PFS is Short and Many Patients do not Respond



responders to anti-PD-1 treatment

MSKCC Phase 2 Trial Exploring Nivolumab vs Nivolumab + SBRT

Addition of RT to nivolumab does not improve OS in anti-PD-1 naïve patients

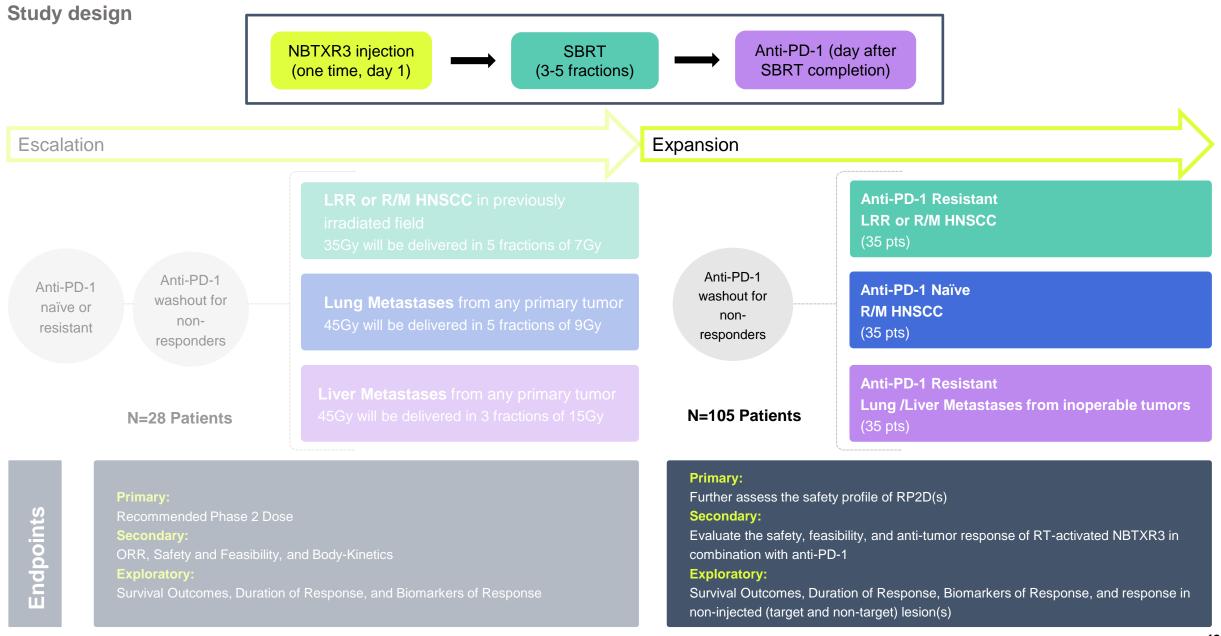


By providing local control and priming an immune response with NBTXR3 + RT, a goal of the 1100 study is to explore whether NBTXR3 + SBRT + anti-PD-1 can:

1. Improve responses and deepness of immune responses for patients naive to anti-PD-1

2. Reverse resistance to anti-PD-1 for refractory patients

Study 1100 Potential Immunotherapy Combination



Baseline Characteristics of R/M HNSCC Patients in Study 1100

	ICI Naïve N=33	ICI Resistant N=35	All N=68		
Age (years)					
Missing	0	0	0		
n	33	35	68		
Mean (SD)	64.1 (8.6)	63.5 (9.5)	63.8 (9.0)		
Median	63.0	64.0	63.5		
Min ; Max	46;80	45 ; 85	45;85		
ECOG Performance status					
Missing	1	0	1		
n	32	35	67		
0	13 (40.6)	16 (45.7)	29 (43.3)		
1	17 (53.1)	19 (54.3)	36 (53.7)		
2	2 (6.3)		2 (3.0)		
Prior anti-PD-1					
Missing	5	3	8		
n	28	32	60		
Yes	2 (7.1) ⁽¹⁾	32 (100)	34 (56.7)		
No	26 (92.9)		26 (43.3)		
Number of prior treatment lines					
Missing	5	4	9		
n	28	31	59		
1-2	25 (89.3)	11 (35.5)	36 (61.0)		
3-4	2 (7.1)	12 (38.7)	14 (23.7)		
5+		8 (25.8)	8 (13.6)		

* 10 ICI naïve patients have Oropharynx cancer and HPV+

** 12 ICI resistant patients have Oropharynx cancer and HPV+

	ICI Naïve	ICI Resistant	All	
	N=33	N=35	N=68	
Number of lesions				
Missing	4	1	5	
n	29	34	63	
1	10 (34.5)	7 (20.6)	17 (27.0)	
2-3	12 (41.4)	7 (20.6)	19 (30.2)	
4+	7 (24.1)	20 (58.8)	27 (42.9)	
HPV status				
Missing	1	0	1	
n	32	35	67	
Negative	17 (53.1)	13 (37.1)	30 (44.8)	
Positive	11 (34.4)*	18 (51.4)**	29 (43.3)	
Unknown	4 (12.5)	4 (11.4)	8 (11.9)	
Smoking status				
Missing	0	0	0	
n	33	35	68	
Former smoker	16 (48.5)	22 (62.9)	38 (55.9)	
Nonsmoker	8 (24.2)	10 (28.6)	18 (26.5)	
Current smoker	9 (27.3)	3 (8.6)	12 (17.6)	
Combined Positive Score (CPS) testing (%)				
Missing	17	9	26	
n	16	26	42	
< 1%		4 (15.4)	4 (9.5)	
[1%-20%]	12 (75.0)	11 (42.3)	23 (54.8)	

⁽¹⁾Two patients were included approximately two years after having finished ICI therapy as part of definitive/adjuvant therapy: one patient received 4 month Durvalumab treatment, one patient received 10 month nivolumab treatment.

Safety – Few Treatment Emergent Adverse Events (TEAE) Related to NBTXR3

Confirmed safety profile of NBTXR3 activated by RT in both ICI naive and ICI resistant patients

	ICI Naïve N=33 Patients (%) [AEs]	ICI Resistant N=35 Patients (%) [AEs]	All treated N=68 Patients (%) [AEs]
All TEAEs	24 (72.7) [122]	31 (88.6) [221]	55 (80.9) [343]
Grade <u>></u> 3 TEAEs:		·	·
related to NBTXR3	1 (3.0) [2] ¹	1 (2.9) [1] ¹	2 (2.9) [3]
related to injection procedure	2 (6.1) [2]	2 (5.7) [2] ¹	4 (5.9) [4]
related to radiotherapy	1 (3.0) [1]	6 (17.1) [6] ¹	7 (10.3) [7]
TEAEs related to anti-PD-1	2 (6.1) [5] ¹	2 (5.7) [2]	4 (5.9) [7]
Grade > 3 Serious TEAEs related to radiotherapy or injection procedure or anti-PD-1 or NBTXR3, or a combination	3 (9.1) [5] ^{1,2}	3 (8.6) [3]	6 (8.8) [8]

¹ Same TEAEs reported several times in each category by investigators due to multiple causalities

² 1 patient experienced Grade 5 pneumonitis related to anti-PD-1 and possibly to NBTXR3; this patient did not receive injection in the lungs

- A single NBTXR3 intra-tumoral injection followed by SBRT activation was safe and feasible
- Less than 10% of Grade > 3 serious TEAEs related to NBTXR3, injection procedure, radiotherapy or anti-PD-1
- Approximately 10% of Grade \geq 3 TEAEs were related to radiotherapy, which is in line with reported data
- No unexpected side effect emerged related to radiotherapy/NBTXR3 or anti-PD-1 or injection procedure

AE occurrences are grouped in episodes when there is a chronologic continuity and no change in relationship to NBTXR3, injection, radiotherapy, anti-PD-1, disease or other Patients = number of patients with at least one TEAE and AEs = number of events. Events are considered treatment related when reported as 'Possibly related' or 'Related' to NBTXR3, injection procedure, radiotherapy and/or anti-PD-1

Efficacy Patients Naïve to Anti-PD-1

1100 Data Update (Ongoing study)

Baseline Characteristics of R/M HNSCC Patients Naïve to Anti-PD-1

Similar population as in the Keynote 040 (pembrolizumab) and CheckMate-141 (nivolumab)^

	Number of lesions	ICI Naive (N=33)
	Missing	4
33 patients treated evaluable for safety25 evaluable for efficacy at the cutoff date	n	29
	1	10 (34.5)
leavy tumor burden	2-3	12 (41.4)
	4+	7 (24.1)
CPS score		
 75% of patients* <u>below 20%</u> 	Number of prior treatment lines	ICI Naive (N=33)
IPV status:	Missing	5
 10 patients* with oropharynx with HPV+ status among the 33 patients 	n	28
	1-2	25 (89.3)
		2 (7.1)

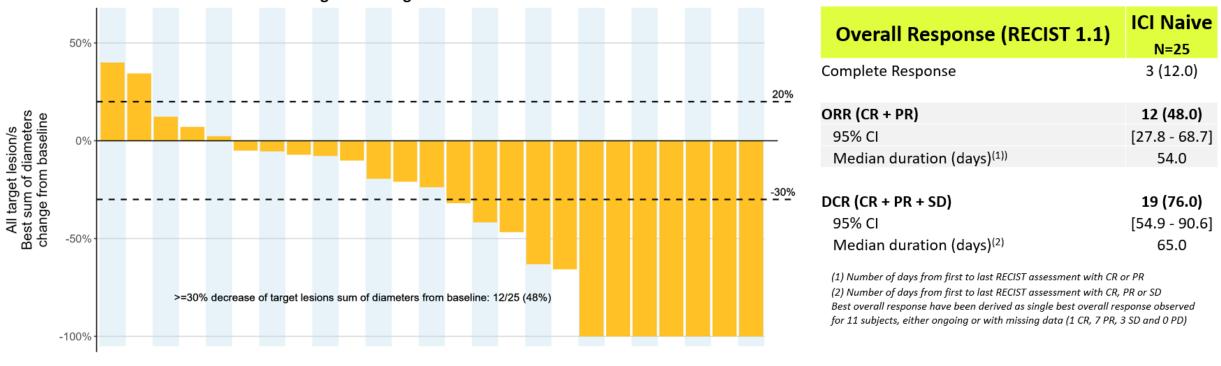
*among available data at cutoff

^Note: Study 1100 is a ph. I trial assessing safety as primary endpoint and exploring signals of efficacy as secondary endpoints. The sample size is small, and the trial is ongoing – some of the efficacy data will mature as new data come in.

Best Change in Diameter Sum From Baseline and RECIST Response

ICI Naïve, Evaluable Patients (N=25)

Best Change in All Target Lesions Diameter Sum from Baseline



Systemic Control in anti-PD-1 naïve patients with high disease burden (24% of patients have 4+ lesions; 66% have 2+ lesions)

Progression Free Survival (PFS) and Overall Survival (OS)

All treated R/M HNSCC ICI Naïve patients



* Ongoing query related to survival data for 1 patient: censored at T = 0 month.

Illustration / Response and Survival Results for Study 1100 and Reference Studies Keynote 040 and Checkmate-141

ICI-Naïve patient population

	1100 Study – Naïve to Anti-PD-1		Keynote 040	CheckMate-141
	All Treated: N=33 evaluable for efficacy: N=25		Pembrolizumab N=247	Nivolumab N=240
Response	All target (N=25) 48%	Il target (N=25) 48% ORR (N=25) 48%		ORR 13.3%
PFS	7.3 [2.2 ; 26.7] months (N=33)*		2.1	2.0
OS	26.2 [5.4 ; NR] months (N=33)*		8.4	7.5

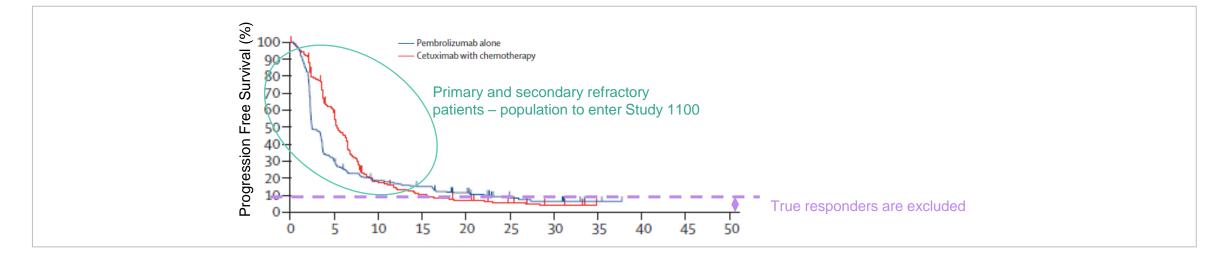
* Ongoing trial – PFS and OS expected to mature with new data coming in

Efficacy Patients Resistant to Anti-PD-1

1100 Data Update (Ongoing study)

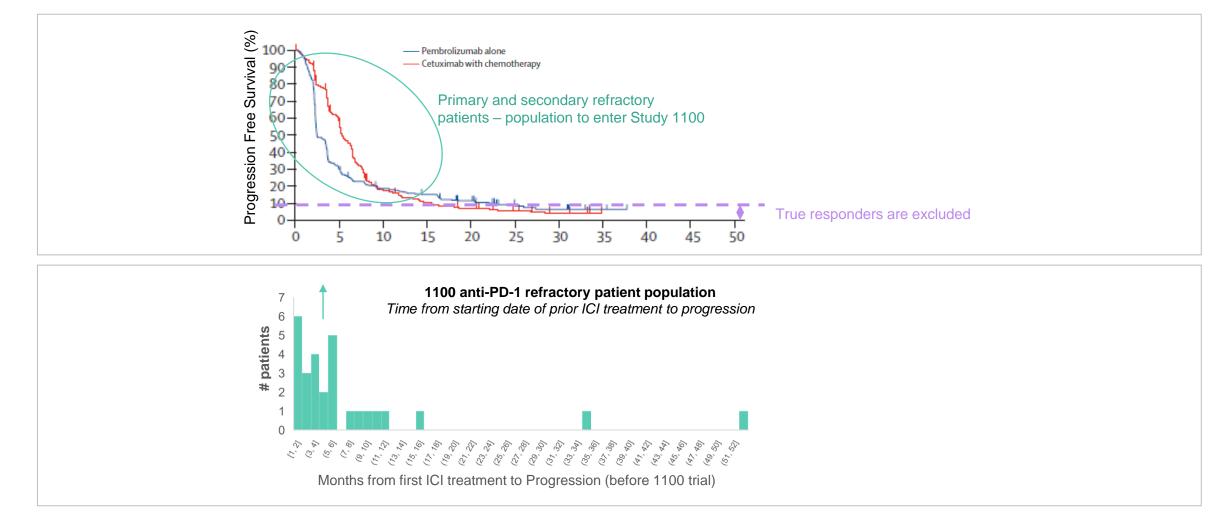
1100 Study – Treatment of Anti-PD-1 Resistant Patient Population

83% of H&N resistant patients entered the 1100 study after having been recorded in progression in their last treatment line 17% have unknown status before entering the study, but supposed to be considered as in progression



1100 Study – Treatment of Anti-PD-1 Resistant Patient Population

83% of H&N resistant patients entered the 1100 study after having been recorded in progression in their last treatment line 17% have unknown status before entering the study, but supposed to be considered as in progression



Baseline Characteristics of R/M HNSCC Patients Resistant to Anti-PD-1

35 patients treated evaluable for safety	Number of lesions	ICI Resistant (N=35)
25 evaluable for efficacy at the cutoff date	Missing	1
83% of patients entered the 1100 study « in	n	34
progression » in their last treatment line (17% have	1	7 (20.6)
unknown status but supposed to be in progression (not recorded yet))	2-3	7 (20.6)
Heavy tumor burden	4+	20 (58.8)
Highly pre-treated patients		
CPS score	Number of prior treatment lines	ICI Resistant (N=35)

- 15% of patients* have a CPS score < 1%
- 58% of patients* below 20%

HPV status:

 12 patients* with oropharynx with HPV+ status among the 35 patients



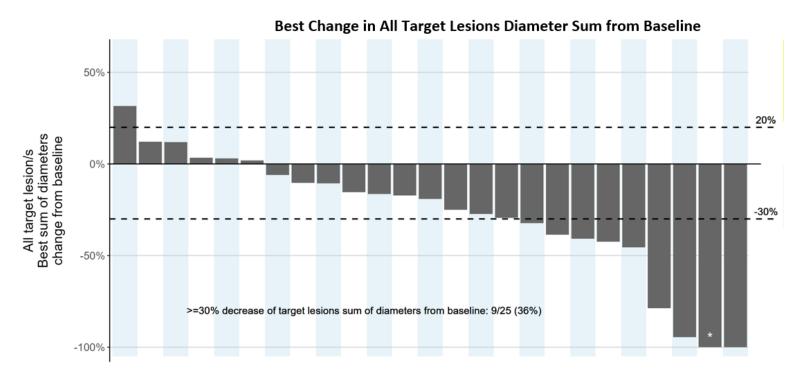
Similar population as Keynote-040 treatment beyond progression (pembrolizumab), and CheckMate-141 treatment post-failure (nivolumab)^

*among available data at cutoff

[^]Note: Study 1100 is a ph. I trial assessing safety as primary endpoint and exploring signals of efficacy as secondary endpoints. The sample size is small, and the trial is ongoing – some of the efficacy data will mature along with new data comes in.

Best Change in Diameter Sum From Baseline and Study Duration

ICI Resistant, Evaluable Patients (N=25)



	ICI	
Overall Response (RECIST 1.1)	Resistant	
	N=25	
Complete Response	2 (8.0)	
ORR (CR + PR)	7 (28.0)	
95% CI	[12.1 - 49.4]	
Median duration (days) ⁽¹⁾⁾	128.0	
DCR (CR + PR + SD)	17 (68.0)	
95% CI	[46.5 - 85.1]	
Median duration (days) ⁽²⁾	58.0	
(1) Number of days from first to last RECIST assessment with CR or PR		

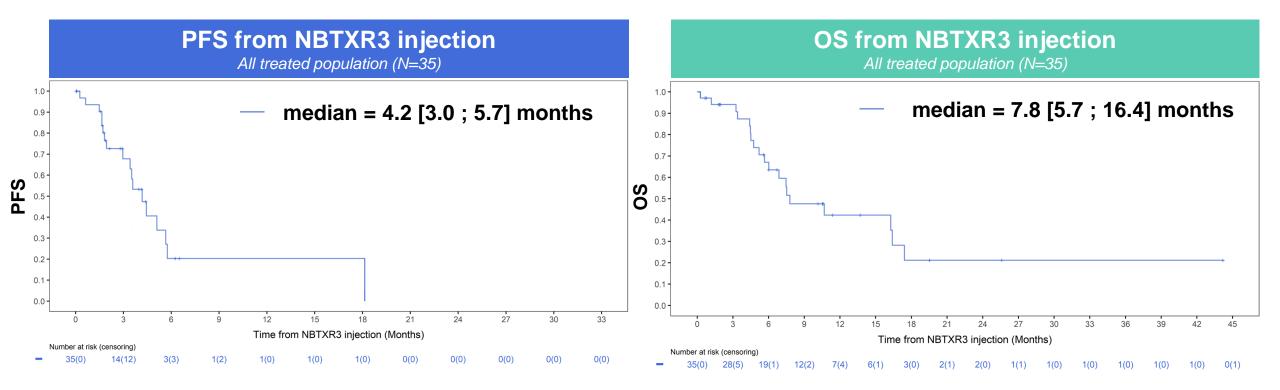
(1) Number of days from first to last RECIST assessment with CR or PR
 (2) Number of days from first to last RECIST assessment with CR, PR or SD
 One subject is in complete pathological response (pCR) and has been included in the CR category of this table

Best overall response have been derived as single best overall response observed for 7 subjects, either ongoing or with missing data (0 CR, 3 PR, 2 SD and 2 PD)

Systemic Control in resistant to anti-PD-1 and in progression metastatic patients with high disease burden (59% of patients have 4+ lesions; 79% have 2+ lesions)

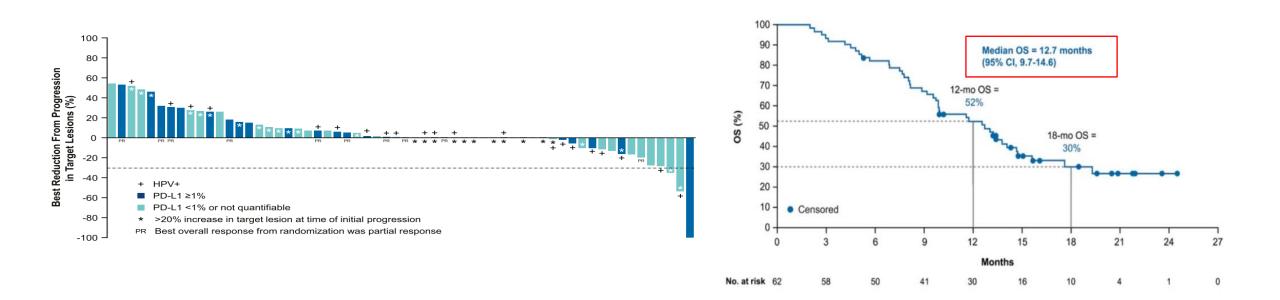
Progression Free Survival (PFS) and Overall Survival (OS)

ICI resistant, all treated HNSCC patients



R/M HNSCC Immune Checkpoint Inhibitor Refractory Populations

CheckMate 141 Nivolumab Trial – patients treated with anti-PD-1 beyond progression



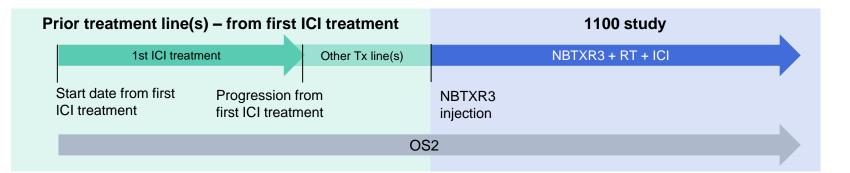
Overall Survival 2 (OS2)

From first ICI treatment

ICI resistant <u>All treated</u> HNSCC patients

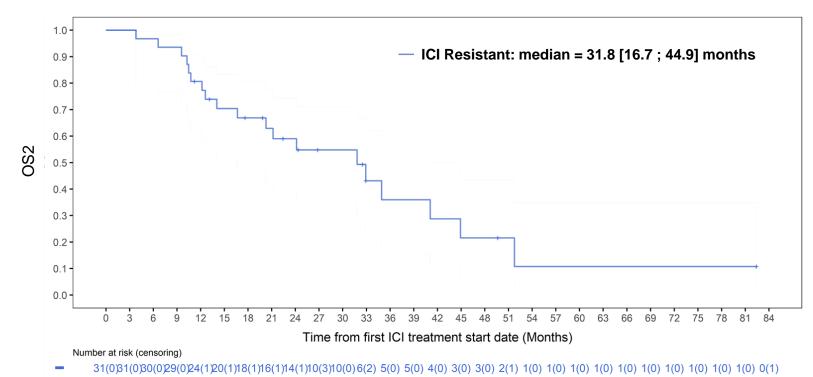
Cut-off: 17 April 2024 N=31*

*4 patients have missing data for prior treatment



OS2: Overall Survival From First ICI Treatment Start Date

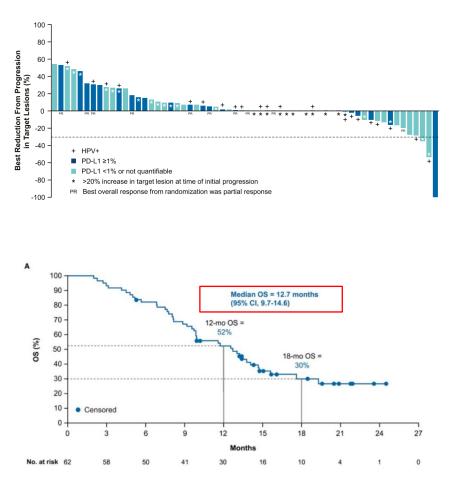
All treated population (N=31)*



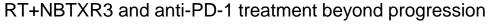
R/M HNSCC Immune Checkpoint Inhibitor Refractory Populations

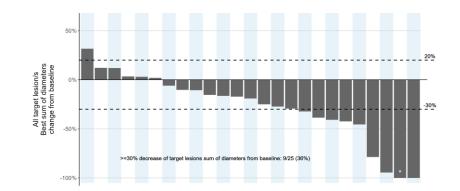
CheckMate 141 – Nivolumab Trial

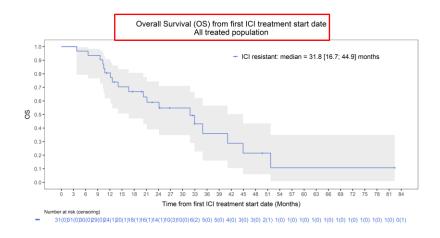
Anti-PD-1 treatment beyond progression



Study 1100 – ICI Resistant Patients







Study 1100 Results Warrant Further Exploration in Randomized Trials for Both ICI Naïve and Resistant Patients with HNSCC

Feasible and safe with no unexpected findings

- NBTXR3 intra-tumoral injection was feasible and safe in heavily pretreated patients with R/M HNSCC
- Less than 10% of Grade
 <u>></u> 3 serious TEAEs related to radiotherapy, injection procedure, anti-PD-1 or NBTXR3
- No specific or unexpected adverse events emerging

High response rate with metastatic patients (naïve or refractory to anti-PD-1) suggests systemic component of control

	ICI Naïve patients	ICI Resistant patients
ORR	48% (12/25)	28% (7/25)
DCR	76% (19/25)	68% (17/25)
mPFS	7.3 months	4.2 months
mOS	26.2 months	7.8 months
mOS from first ICI treatment		31.8 months





THANK YOU

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