		7-DAY IND SAFETY R	REPORT				
1. IND NUMBER	2. AGENT NAME			3. DATE			
129803	Ipilimumab (BMS-734016; MDX-010 Tran	sfectoma-	July 11, 2022			
	derived)						
	Nivolumab						
4. SPONSOR							
Division of Cancer Treatment and Diagnosis, National Cancer Institute							
5. REPORTER'S NAME	E, TITLE, AND INST	6. PHONE NUMBER					
Howard Streicher	r, MD – Medica	240-276-6565					
CTEP, DCTD, N	CI	7. EMAIL ADDRESS					
		ctepsupportae@tech-res.com					
8a. PROTOCOL NUMB	ER (AE #)	8b. AE GRADE: AE					
A031704 (AE #28	58701)	Grade 5: Edema cerebral					
9. PATIENT IDENTIFIC	CATION		10. AGE	11. SEX			
9140868			59 years	Male			
12. PROTOCOL SPECI	FIED						
Induction Therap	y						
Cycle = 21 days (i							
		X-010 Transfectoma-derived):	1 mg/kg IV	on Day 1			
		-1106): 3 mg/kg IV on Day 1					
13. TREATMENT RECI			and reasive	ad the last deses of inilimumah			
The patient began the investigational therapy on May 24, 2022, and received the last doses of ipilimumab and nivolumab on June 14, 2022 (Cycle 2, Day 1).							
14. DESCRIPTION OF A	<i>,</i>	(0,000 -, 2 4, 9 -).					
		ale with clear cell renal cell ad	enocarcinon	a with metastases to the left eye,			
lungs, bones, and	adrenal glands	who expired on June 25, 2022	2, due to cere	bral edema while on a Phase III			
trial utilizing the	investigational	agents ipilimumab and nivolu	mab. The pa	atient was a former smoker. On			
June 24, 2022, the	e patient was b	rought to the emergency depai	rtment (ED)	by emergency medical services			
(EMS) after being	found on the	floor of his home by his brothe	er. The patie	ent reported that he had been			
lying on the floor	for over 24 ho	urs after losing his balance in t	he bathroon	n and falling. He was found by			
EMS to be lying face down with increased erythema and open abrasions on his chest, which the patient							
attributed to crav	vling on the car	pet. Upon arrival to the ED, 1	the patient w	as awake and oriented, but			
markedly uncomfortable with tachycardia, tachypnea, hypoxemia, and had a temperature of 101 °F. On							
physical examina	tion, the patien	t had increased work of breat	hing, no brea	th sounds in the right lower lung			
field with a few ra	ales in the right	t mid lung field, and diminishe	d breath sou	nds bilaterally. He also			
displayed some w	eakness, slowe	d cognition, possible confusion	, and process	sing difficulty. Laboratory			
results were signi	ficant for a C-r	eactive protein of 19.80 mg/dI	(reference	range: <0.50 mg/dL), a brain			
natriuretic peptid	le (BNP) of 996	pg/mL (reference range: <10	0 pg/mL), a t	total creatine kinase of 1,730			
IU/L (reference r	ange: 30-200 I	U/L), a white blood count (WE	BC) of 13.0 th	ou/cu mm (reference range: 4.5-			
11.0 thou/cu mm)	, and a troponi	n I of 1.860 (reference range:	<0.034 ng/m	L). An electrocardiogram			
(ECG) showed sin	nus tachycardia	a and possible left atrial enlarg	gement. A C	T scan of the brain revealed			
numerous new bi	lateral hemorr	hagic masses with surrounding	g vasogenic e	dema in both the supratentorial			
and infratentoria	l brain, includi	ng a large metastatic lesion wi	thin the left (cerebellum. The numerous			
metastases caused	l sulcal effacen	ent, effacement in the basilar	cisterns, and	l a 9 mm right-to-left shift along			

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the anterior falx cerebri. A CT scan of the cervical spine revealed significant increase in size of a lytic metastatic lesion involving the odontoid process. A CT scan of the chest, abdomen, and pelvis with contrast showed a right 4th rib fracture through a metastatic lesion, near complete right lower lobe collapse, and progressive metastases involving the lung, retroperitoneum, and pelvis. The patient was given fentanyl and supplemental oxygen while in the ED. Following discussion with the patient and his family, he was transitioned to comfort care and admitted to hospice. On June 25, 2022, the patient expired. An autopsy was not performed.

15. ACCRUAL AND IND EXPERIENCE

Number of patients enrolled in NCI-sponsored clinical trials using nivolumab under NSC 748726 = 9,409. Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 732442 = 8,990. Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 720801 = 208. There have been 4 other cases of edema cerebral reported to the NCI through CTEP-AERS as serious adverse events for nivolumab under NSC 748726.

There have been 5 other cases of edema cerebral reported to the NCI through CTEP-AERS as serious adverse events for ipilimumab under NSC 732442.

There have been no other cases of edema cerebral reported to the NCI through CTEP-AERS as serious adverse events for ipilimumab under NSC 720801.

Adverse Event	Grade	Attribution
Nivolumab (NSC 748726)		
Edema cerebral (n= 4)	4 3	1 Unlikely 2 Possible, 1 Unlikely
lpilimumab (NSC 732442)		
Edema cerebral (n= 5)	4 3	1 Unlikely, 1 Unrelated 2 Possible, 1 Unlikely

16. ASSESSMENT

Based on the provided medical documentation and our medical and scientific knowledge, a probable relationship exists between the edema cerebral and the investigational agents ipilimumab and nivolumab.

	Edema cerebral	
Ipilimumab	Probable	
Nivolumab	Probable	
Renal cell carcinoma, clear cell adenocarcinoma	Definite	
New brain metastases	Definite	
Rapid disease progression vs pseudo progression and edema	Definite	

17. CONCOMITANT MEDICATIONS

Medications taken at the time of the event were acetaminophen, amlodipine, cholecalciferol, furosemide, prochlorperazine, and topical triamcinolone.

18. COMMENTS

DISCLAIMER per 21 CFR 312.32(e): THIS SAFETY REPORT DOES NOT NECESSARILY REFLECT A CONCLUSION OR ADMISSION BY THE CTEP IDB MEDICAL OFFICER/SPONSOR THAT THE INVESTIGATIONAL AGENT/THERAPY CAUSED OR CONTRIBUTED TO THE ADVERSE EXPERIENCE BEING REPORTED.