		7-DAY IND SAFETY	REPORT	
1. IND NUMBER	2. AGENT NAME	3		3. DATE
129803	Ipilimumab (BMS-734016; MDX-010 Tran	sfectoma-	December 15, 2021
	derived)			
	Nivolumab			
4. SPONSOR				-
		nd Diagnosis, National Cancer	Institute	
5. REPORTER'S NAME	REPORTER'S NAME, TITLE, AND INSTITUTION 6. PHONE NUMBER			6. PHONE NUMBER
Howard Streicher	ward Streicher, MD – Medical Officer, Investigational Drug Branch, 240-276-6565			240-276-6565
CTEP, DCTD, N	CI			7. EMAIL ADDRESS
				ctepsupportae@tech-res.com
8a. PROTOCOL NUMBI	ER (AE #)	8b. AE GRADE: AE		
A031704 (AE #23	37769)	Grade 5: Infections and infe	stations: CO	VID-19
9. PATIENT IDENTIFIC	ATION		10. AGE	11. SEX
9138133			61 years	Female
12. PROTOCOL SPECI	FIED			
Induction Therap	y			
Cycle = 21 days (i	• /			
		K-010 Transfectoma-derived):	1 mg/kg IV o	on Day 1
,		-1106): 3 mg/kg IV on Day 1		
13. TREATMENT RECE		ional therapy on September 2) 2021 and	consisted the last desperat
ipilimumab and r	0		, 2021, anu i	eccived the last doses of
14. DESCRIPTION OF				
		male with clear cell renal cell	adenocarcino	oma with metastasis to the lungs,
who expired on N	ovember 27, 20	021, due to COVID-19 while o	n a Phase III	trial utilizing the investigational
agents ipilimuma	b and nivoluma	ab. On October 29, 2021, the	patient prese	nted to the emergency
department (ED)	complaining of	f shortness of breath and coug	h of 4 hours	duration with a reported oxygen
saturation of 58%	on 3 L of hom	ie oxygen. Upon arrival, she h	ad a blood p	ressure of 98/62 mmHg, a
temperature of 37	7°C, a heart rat	e of 98 beats per minute, a res	piratory rate	e of 16 breaths per minute, and
an oxygen saturat	tion of 98% on	room air. Laboratory results	were signific	ant for an anion gap of 9
mmol/L (referenc	e range: 10-20) mmol/L) and an N-terminal l	Pro-B-type na	atriuretic peptide of 981 pg/mL
(reference range:	0-125 pg/mL).	. A COVID-19 test was positiv	ve. Of note, s	he was not vaccinated for
COVID 19. A ch	est X-ray was s	ignificant for a mildly enlarge	d heart and s	lightly increasing small to
moderate left-side	ed pleural effus	sion. A CT angiogram of the c	hest with cor	ntrast revealed no evidence of
pulmonary embol	lism. No abnor	mal findings were noted on th	e electrocard	liogram. While in the ED, she
was placed on sup	oplemental oxy	gen via high-flow nasal cannul	a for hypoxi	c respiratory failure and was
started on hepari	n, enoxaparin,	dexamethasone, azithromycin	, ceftriaxone,	ondansetron, and mupirocin. A
left thoracentesis	was performed	l draining 800 mL of lightly bl	ood-tinged fl	uid. She was admitted into the
intensive care uni	t (ICU) for fur	ther management. On Novem	ber 1, 2021, s	she was intubated. During her
	. ,	d a 5-day course of remdesivir		-
		e e		be weaned off the ventilator, and
		On November 13, 2021, a per		-
-	-	ve. On November 25, 2021, a 1		
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moderate left pleural effusion with atelectasis of the left lower lobe. Throughout the hospital course, the patient's condition continued to decline with worsening oxygen requirements, recurrence of pleural effusion, and persistent fever despite antibiotic treatment. On November 27, 2021, per the family's request, she was transferred to hospice care for comfort measures. That day, 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 = 8,656. Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 732442 = 8,434. Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 720801 = 208. There have been 5 other cases of COVID-19 reported to the NCI through CTEP-AERS as serious adverse events for ipilimumab under NSC 732442.

There have been no other cases of COVID-19 reported to the NCI through CTEP-AERS as serious adverse events for ipilimumab under NSC 720801.

There have been 14 other cases of COVID-19 reported to the NCI through CTEP-AERS as serious adverse events for nivolumab under NSC 748726.

Adverse Event	Grade	Attribution	
Nivolumab (NSC 748726)			
	5	2 Possible, 3 Unlikely, 1 Unrelated	
	4	1 Unlikely, 1 Unrelated	
COVID-19 (n=14)	3	2 Unlikely, 1 Unrelated	
	2	2 Unlikely	
	1	1 Unlikely	
lpilimumab (NSC 732442)			
	4	1 Unlikely, 1 Unrelated	
	3	1 Unrelated	
COVID-19 (n=5)	2	1 Unlikely	
	1	1 Unlikely	

16. ASSESSMENT

Based on the provided medical documentation and our medical and scientific knowledge, a possible relationship exists between the COVID-19 and the investigational agents ipilimumab and nivolumab.

	COVID-19	
Ipilimumab	Possible	
Nivolumab	Possible	
Renal cell carcinoma, clear cell adenocarcinoma	Possible	

17. CONCOMITANT MEDICATIONS

Medications taken at the time of the event were docusate sodium, diltiazem, and oxycodone.

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.