	Ι	ND SAFETY REPORT: FO	LLOW UP#1		
1. IND NUMBER	2. AGENT N	2. AGENT NAME		3. DATE	
10200	Ipilimumab (BMS-734016; MDX-010		sfectoma derived)	June 12, 2019	
	Bevacizun	nab (rhuMAb VEGF)			
4. SPONSOR					
		Diagnosis, National Cancer Instit	tute		
5. REPORTER'S NAME, TITLE, AND INSTITUTION 6. PHONE NUMBER					
Howard Streicher, MD – Medical Officer for Investigational Therapeutics 3, 240-276-6565				240-276-6565	
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Investigational Drug B	-			res.com	
		nch Chief for Investigational T	herapeutics 3,		
Investigational Drug					
8a. PROTOCOL NUMBER (A		8b. AE GRADE: AE			
E3612 (AE #2178734)		Grade 5: Cardiac arrest	10. AGE	11 0537	
9. PATIENT IDENTIFICATIO)N			11. SEX	
36158			88 years	Female	
12. PROTOCOL SPECIFIED					
Induction (Cycle = 21	•				
Ipilimumab: 3 mg/kg I	-	-			
Bevacizumab: 15 mg/k	• •	v 1 of Cycles 1-4			
Maintenance (Cycle =	•				
-		1 of each cycle beginning on Cy			
Ipilimumab: 3 mg/kg l 13. TREATMENT RECEIVED	-	of every fourth cycle beginning of	on Cycle 8		
		al therapy on November 16, 201	6 and received the l	ast dose of inilimumah on	
· ·	-	and the last dose of bevacizumat		-	
14. DESCRIPTION OF ADVE			on December 9, 20	10 (Cycle 2, Day 1).	
		nale with metastatic melanoma w	ho expired due to ca	rdiac arrest on March 14,	
2017 while on a Phase	2 trial utiliz	ing the investigational agents ipil	imumab and bevaciz	zumab. Of note, the patient	
had a history of hypert	ension. On I	December 9, 2016 (Cycle 2, Day	1), the investigation	al agent bevacizumab was	
discontinued due to hy	pertension.	On January 22, 2017 (Cycle 4, D	ay 4), the patient wa	as admitted to a local	
hospital with a transier	nt ischemic a	ttack and lung infection. She wa	s started on antibiot	ics and transferred to a	
rehabilitation facility d	ue to left-sic	led stroke with resultant mild her	niparesis on the righ	t side, aphasia, and	
considerable functiona	l decline. O	f note, the patient also had bilater	ral wounds in her low	wer extremities that	
required negative-press	sure wound t	therapy while in rehabilitation. C	On February 4, 2017,	, the patient called her	
treating physician to ex	xpress her de	esire to stop the investigational ag	gent due to her deteri	iorating health status. On	
March 9, 2017, the pat	ient returned	l to the treating physician's office	e for an end-of-treatr	nent visit. The patient was	
in good spirits and had	extensive fa	mily support. On March 10, 201	7, the patient was for	ound at her house	
unresponsive in her ow	vn vomit. Sh	ne was transported to the local em	nergency department	t where she was admitted	
	• •	do not resuscitate (DNR) order i			
· ·	-	r the death note of the treating ph	•		
requested from the investigational site. There is a reasonable possibility that the experience may have been caused					
by the investigational agents.					

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The Initial Written Report was sent to the FDA on April 26, 2017.

Follow-up #1:

On January 22, 2017, upon arrival to the emergency room the patient was in atrial fibrillation with a rapid ventricular response. She was started on IV nicardipine with no change in her atrial fibrillation with rapid ventricular response. Her nicardipine was changed to diltiazem and she was admitted to the hospital.

15. ACCRUAL AND IND EXPERIENCE

Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 732442 = 4,768 6,538, and under NSC 720801 = 208.

Number of patients enrolled in NCI-sponsored clinical trials using bevacizumab under NSC 704865 = 43,00743,730.

There have been **9 13** other cases of cardiac arrest reported to the NCI through CTEP-AERS as a serious adverse events for ipilimumab under NSC 732442, and **none** under NSC 720801.

There have been 19 other cases of cardiac arrest reported to the NCI through CTEP-AERS as serious adverse events for bevacizumab under NSC 704865.

Adverse Event	Grade	Attribution
Ipilimumab (NSC 732442)		
Cardiac arrest (n = 9 13)	4	1 Possible, 1 2 Unlikely
Cardiac ariest ($n = \frac{1}{2}$ 13) 5 3	3 4 Possible, 1 2 Unlikely, 3 4 Unrelated	

Adverse Event	Grade	Attribution
Bevacizumab (NSC 704865)		
Cardiac arrest (n = 19)	4	5 4 Possible, 7 Unlikely, 1 Unrelated
Caldiac allest (II = 19)	5	2 3 Possible, 3 Unlikely, 1 Unrelated

16. ASSESSMENT

In this case, it is felt that a possible relationship exists between the cardiac arrest and the investigational agent bevacizumab and an unlikely **possible** relationship exists between cardiac arrest and the investigational agent ipilimumab.

	Cardiac arrest
Ipilimumab	Unlikely
Ipininumao	Possible
Bevacizumab	Possible
Melanoma	Unlikely
Atrial fibrillation, rapid ventricular response, cardiovascular disease	Probable
	Definite
Uncontrolled hypertension	Possible

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17. CONCOMITANT MEDICATIONS

Medications taken at the time of the event are amlodipine, labetalol, losartan-hydrochlorothiazide, omeprazole, pantoprazole, loratadine, sucralfate, escitalopram, tramadol, acetaminophen-hydrocodone, methocarbamol, alprazolam, levothyroxine, aspirin, multivitamins, and glucosamine.

18. COMMENTS

AT THIS TIME, NO OTHER INFORMATION IS AVAILABLE. IF UPON FURTHER INVESTIGATION RELEVANT INFORMATION BECOMES AVAILABLE, THEN A FOLLOW-UP REPORT WILL BE SUBMITTED IN ACCORDANCE WITH 21CFR 312.32(d)(2). <u>DISCLAIMER per 21 CFR 312.32(e)</u>: 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.