		7-DAY IND SAFETY RI	EPORT					
1. IND NUMBER	2. AGENT NAME			3. DATE				
124975	Ipilimumab (BMS-734016; MDX-010			December 16, 2021				
		ctoma-derived)						
4. SPONSOR	Nivolun	lab						
4. SPONSOR Division of Cancer Treatment and Diagnosis, National Cancer Institute								
5. REPORTER'S NAME, TIT		6		6. PHONE NUMBER				
Howard Streicher, MD – Medical Officer, Investigational Drug			Branch,	240-276-6565				
CTEP, DCTD, NCI				7. EMAIL ADDRESS				
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8a. PROTOCOL NUMBER (AE #)		8b. AE GRADE: AE						
EA6141 (AE #288425	8)	Grade 4: Myocarditis Grade 4: Sinus bradycardia						
9. PATIENT IDENTIFICATIO	N	10. AGE		11. SEX				
16299			72 years	Male				
12. PROTOCOL SPECIFIED								
Cycle: 21 Days (Indu								
		X-010 Transfectoma-derived): 3	mg/kg IV, D	Pay 1				
		X-1106): 1 mg/kg IV, Day 1						
GNI-CSF (sargramos	um, Leuk	ine): 250 ug SQ, Days 1-14						
Cycle: 21 Days (Main	tenance P	Phase)						
		X-1106): 3 mg/kg IV, Day 1						
GM-CSF (sargramos	tim, Leuk	ine): 250 ug SQ, Days 1-14						
13. TREATMENT RECEIVED								
	-	tional therapy on November 10, 1		-				
nivolumab and ipilimumab on that same day and the last dose of sargramostim on November 23, 2021								
(Cycle 1, Day 14).	DOE EVENIT							
		le with metastatic cutaneous mel	anoma of th	wight ion who developed grade				
· ·		s bradycardia while on a Phase II						
• 0		combination with GM-CSF (sarge		8 8 8				
-		sion. On November 28, 2021, the	-	<i>,</i> .				
	• •		•	6				
called emergency medical services (EMS). Upon arrival, EMS found him to be poorly responsive and bradycardic with a heart rate in the 30s and heart block on the rhythm strip. On route to the hospital the								
patient was given atropine and two doses of epinephrine, and a transcutaneous pacing was performed. On								
arrival to the emergency department (ED), he was paced at a heart rate of 70 beats per minute and had a								
blood pressure of 115/88 mmHg and an oxygen saturation (SPO ₂) of 86-90% on 15 L non-rebreather mask								
(NRB). Laboratory results were significant for a troponin level of 6.7 (reference range and units: not								
provided). A cardiologist was consulted, and he was planned for transvenous pacing. The patient was								
intubated and admitted to the critical care unit for further management. On November 29, 2021, the patient								
was started on methylprednisolone. On November 30, 2021, a transvenous pacemaker was placed for								
bradycardia. On December 1, 2021, the patient was started on abatacept and was extubated. Additional								
information has been requested from the investigational site.								
15. ACCRUAL AND IND EXPERIENCE								
-	Number of patients enrolled in NCI-sponsored clinical trials using nivolumab under NSC 748726 = 8,636.							
Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 732442 = 8,638.								

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Number of patients enrolled in NCI-sponsored clinical trials using ipilimumab under NSC 720801 = 208. There has been 1 other case of sinus bradycardia (Grade 1, unrelated) reported to the NCI through CTEP-AERS as a serious adverse event for nivolumab under NSC 748726.

There have been 2 other cases of sinus bradycardia reported to the NCI through CTEP-AERS as serious adverse events for ipilimumab under NSC 732442.

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

Myocarditis is an expected event for the investigational agents ipilimumab and nivolumab.

Adverse Event	Grade	Attribution			
Ipilimumab (NSC 732442)					
Sinus bradycardia (n=2)	2 1	1 Unlikely 1 Unrelated			

16. ASSESSMENT

Based on the provided medical documentation and our medical and scientific knowledge, a possible relationship exists between the myocarditis and the sinus bradycardia and the investigational agents ipilimumab and nivolumab.

	Myocarditis	Sinus bradycardia					
Ipilimumab	Possible	Possible					
Nivolumab	Possible	Possible					
Sargramostim	Unrelated	Unrelated					
Melanoma	Unrelated	Unrelated					
17. CONCOMITANT MEDICATIONS							
Medications taken at the time of the event were not provided.							
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.							