FOLLOW-UP IND SAFETY REPORT #1							
1. IND NUMBER	2. AGENT NAME			3. DATE			
129803	Nivoluma	b		April 15, 2022			
4 SPONSOR	XL184 (Cabozantinib)						
4. SPONSOR Division of Cancer Treatment and Diagnosis, National Cancer Institute							
5. REPORTER'S NAME, TIT	LE, AND INSTI	TUTION		6. PHONE NUMBER			
Howard Streicher, MD	– Medical (Officer, Investigational Drug Brand	ch, CTEP,	240-276-6565			
DCTD, NCI		,		7. EMAIL ADDRESS			
John Wright, MD, PhD CTEP, DCTD, NCI	– Associat	Branch Chief, Investigational Drug Branch,		ctepsupportae@tech-res.com			
8a. PROTOCOL NUMBER (A	E #)	8b. AE GRADE: AE					
A031704 (AE #229927	79)	Grade 5: Death NOS					
9 PATIENT IDENTIFICATIO	N	Grade 4: Hypoglycemia	10 AGE	11 SEX			
9130919	1		66 years	Female (per medical records)			
12. PROTOCOL SPECIFIED			oo yeurs	remaie (per medical records)			
Cycle = 28 Days Nivolumab (BMS-936558, MDX-1106): 480 mg IV on Day 1 XL184 (Cabozantinib): 760 mg PO OD							
13. TREATMENT RECEIVED AND DATES The patient began the investigational therapy on July 23, 2020, and received the last dose of nivolumab on July 25, 2021, and the last dose of cabozantinib on August 3, 2021.							
14. DESCRIPTION OF ADVERSE EVENT The patient was a 66-year-old female with metastatic clear cell renal cell adenocarcinoma who expired on August 11, 2021, while on a Phase III trial utilizing the investigational agents nivolumab and cabozantinib. Additional information has been requested from the investigational site.							
The Initial Written R	eport was s	ent to the FDA on September 8, 2	2021, as a 7-	-day report.			
<u>Follow-Up #1:</u> The patient had a history of cardiomyopathy requiring automatic implantable cardioverter-defibrillator (AICD), heart failure with reduced ejection fraction and diastolic dysfunction, pulmonary embolism, chronic kidney disease, anemia, hypertension, and hyperlipidemia. On August 10, 2021, the patient was brought to the emergency department (ED) via emergency medical services (EMS) with a 1-week history of vomiting, diarrhea, altered mental status, dehydration, and dyspnea on exertion. That morning, the patient was too weak to get out of bed and upon EMS arrival, she had a capillary blood glucose (CBG) level of 28 (reference range and units: not provided). She required transient bag mask ventilation and intravenous glucose administration en route to the ED. Upon arrival, she had a had a temperature of 98.8°F, blood pressure of 102/58 mmHg, heart rate of 68 beats per minute, respiratory rate of 16 breaths per minute, and an oxygen saturation (SpO ₂) of 92% on a non-rebreather mask. On physical examination, she was awake and alert, but ill-appearing. Laboratory results were significant for a white blood cell (WBC) count of 11.2 (reference range: 4.5-11.0), hemoglobin level of 6.9 (reference range: 7-21), aspartate aminotransferase (AST) of 306 (reference range: 7-40), alanine aminotransferase of 72 (reference range: 7-56), and a glucose level of 185 (reference range: 70-100). A urinalysis was positive for leukocytes. She was given 0.9% sodium chloride, ondansetron, and admitted to the hospital for further evaluation and management of septic shock, encephalopathy, congestive heart failure, acute on chronic renal failure, and transaminitis. CT scans of the							

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chest, abdomen, and pelvis showed interval development of patchy peripheral infiltrates in the inferior right upper lobe and left lower lobe consistent with pneumonia, and fluid throughout the colon suggestive of colitis and diarrhea. A CT scan of the brain revealed mild changes of small vessel ischemic disease, but no acute intracranial process. She was started on broad spectrum antibiotics, intravenous bicarbonate, norepinephrine, steroids, and received 1 unit of packed red blood cells. That evening, laboratory tests were significant for a troponin T of 0.104 (reference range: 0.000-0.030) and a lactic acid level of 92.5 (reference range: 9.0-16.0). Despite aggressive treatment, the patient showed no signs of clinical improvement. On August 11, 2021, the patient's daughter decided to transition her to comfort care. That day, the patient expired. An autopsy was not performed. Additional information has been requested from the investigational site.

15. ACCRUAL AND IND EXPERIENCE

Pending Follow-up report.

Number of patients enrolled in NCI-sponsored clinical trials using nivolumab under NSC 748726 = 9,091. Number of patients enrolled in NCI-sponsored clinical trials using cabozantinib under NSC 761968 = 2,500. There have been 131 other cases of death NOS reported to the NCI through CTEP-AERS as serious adverse events for nivolumab under NSC 748726.

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

There have been 15 other cases of death NOS reported to the NCI through CTEP-AERS as serious adverse events for cabozantinib under NSC 761968.

There have been 4 other cases of sudden death NOS reported to the NCI through CTEP-AERS as serious adverse events for cabozantinib under 761968.

Adverse Event	Grade	Attribution		
Nivolumab (NSC 748726)				
Death NOS (n=131)	5	1 Definite, 1 Probable, 45 Possible, 56 Unlikely, 28 Unrelated		
Sudden Death (n=14)	5	1 Probable, 9 Possible, 4 Unlikely		
Cabozantinib (NSC 761968)				
Death NOS (n=15)	5	1 Possible, 7 Unlikely, 7 Unrelated		
Sudden Death (n=4)	5	3 Possible, 1 Unrelated		

16. ASSESSMENT

Based on the provided medical documentation and our medical and scientific knowledge, a possible relationship between the death NOS and the investigational agents nivolumab and cabozantinib cannot be excluded. The adverse events and attributions will be reassessed when additional information becomes available. Based on the provided medical documentation and our medical and scientific knowledge, a possible relationship exists between the death NOS and the investigational agents nivolumab and cabozantinib.

	Death NOS		
Nivolumab	Possible		
Cabozantinib	Possible		
Clear cell renal cell	Unlikely		
carcinoma			

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	Cardiomyopathy, heart failure, reduced ejection fraction	Probable				
	Possible colitis with dehydration	Possible				
	Urinary tract infection	Possible				
	Renal failure, congestive heart failure, possible sepsis, or adrenal insufficiency	Possible				
	physiology					
17. CONCOMITANT MEDICA	ATIONS					
Pending Follow-up report.						
Medications taken at the time of the event were apixaban, magnesium oxide, metoprolol succinate,						
pantoprazole, vitamin B12, vitamin C, and vitamin D3.						
18. COMMENTS						
Pending Follow-up rep	ort.					
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 AGENTTHERAPY						
CAUSED OR CONTRIBUTED TO THE ADVERSE EXPERIENCE BEING REPORTED.						