

Supplementary Materials
Table S1. Schedule of activities.

Timepoint	Baseline	First 3 months	Month 3	Month 6	Month 12	Month 24
Informed consent	X					
Inclusion/exclusion criteria	X					
Medical history	X					
Prior/concomitant medication review				Continuous		
Physical examination [†]	X	X	X	X	X	X
Patient reported outcomes						
- Vital signs				Continuous		
- (S)AEs/irAEs				Continuous		
- Cardiovascular questionnaire				Continuous		
Cardiovascular analyses						
- 12-lead ECG	X	X [‡]	X	X	X	X
- 3D Echocardiography	X		X	X	X	X
- CT scan for calcium scoring	X				X	X
Laboratory parameters						
- Immune baseline blood analysis [◦]	X					
- Immune follow-up blood analysis [◦]		X	X	X	X	X
- Additional blood sample [△]	X		X	X	X	X
Follow-up						
- Survival status				Continuous		
- Treatment*				Continuous		

[†] All physical examinations will also include a neurological exam. [‡] An ECG will be taken by a qualified designee prior to each ICI cycle during the first three months of treatment. [◦] The specific laboratory values are listed in Supplementary Table S2. [△] An additional blood sample (7.5 mL) will be taken and used for future determination of hs-TnI, hs-TnT and NT-proBNP. * If ICI treatment was discontinued, data was still collected regarding subsequent systemic therapies. Abbreviations: CT, computed tomography; hs-TnI, high-sensitivity troponin I; hs-TnT, high-sensitivity troponin T; irAE, immune-related adverse event; NT-proBNP, N-terminal pro-B-type natriuretic peptide; sAE, severe adverse event

Table S2. Laboratory parameters determined during immune baseline and immune follow-up blood samples analyses.

	Baseline (fasting)	Unit	Follow-up	Unit
Hematology	Red blood cell count		Red blood cell count	
	Hemoglobin	10 ⁶ mm ³	Hemoglobin	10 ⁶ mm ³
	Hematocrit	g/dL	Hematocrit	g/dL
	Mean corpuscular volume	%	Mean corpuscular volume	%
	fL	fL		
	Mean corpuscular hemoglobin	pg	Mean corpuscular hemoglobin	pg
	10 ³ mm ³	10 ³ mm ³	10 ³ mm ³	10 ³ mm ³
	White blood cell count	10 ³ mm ³	White blood cell count	10 ³ mm ³
	Platelet count	%	Platelet count	%
	Neutrophil	%	Neutrophil	%
	Eosinophil	%	Eosinophil	%
	Basophil	%	Basophil	%
	Lymphocyte	%	Lymphocyte	%
	Monocyte	10 ³ mm ³	Monocyte	10 ³ mm ³
	Absolute neutrophil	10 ³ mm ³	Absolute neutrophil	10 ³ mm ³
	Absolute eosinophil	10 ³ mm ³	Absolute eosinophil	10 ³ mm ³
	Absolute basophil	10 ³ mm ³	Absolute basophil	10 ³ mm ³
	Absolute lymphocyte	10 ³ mm ³	Absolute lymphocyte	10 ³ mm ³
	Absolute monocyte		Absolute monocyte	10 ³ mm ³
Chemistry	Glucose [fasting]	mg/dL	Glucose [non-fasting]	mg/dL
	Urea	mg/dL	Urea	mg/dL
	Creatinine	mg/dL	Creatinine	mg/dL
	eGFR (CKD-EPI)	mL/min/1.73 m ²	eGFR (CKD-EPI)	mL/min/1.73
	Albumin	g/L	Albumin	m ²
	Bilirubin	mg/dL	Bilirubin	g/L
	Alkaline phosphatase	U/L	Alkaline phosphatase	mg/dL
	AST (= SGOT)	U/L	AST (= SGOT)	U/L
	ALT (= SGPT)	U/L	ALT (= SGPT)	U/L
	GGT	U/L	GGT	U/L
	Lipase	U/L	Lipase	U/L
	LDH (IFCC)	U/L	LDH (IFCC)	U/L
	Creatine kinase	U/L	Creatine kinase	U/L
	Troponin I or T	ng/L	Troponin I or T	U/L
	NT-proBNP	pg/mL		ng/L
Lipid panel	Triglycerides	mg/dL		
	Cholesterol	mg/dL		
	HDL-cholesterol	mg/dL		
	LDL-cholesterol	mg/dL		
Electrolytes & minerals	Sodium	mmol/L	Sodium	mmol/L
	Potassium	mmol/L	Potassium	mmol/L
	Chloride	mmol/L	Chloride	mmol/L
	Bicarbonate	mmol/L	Bicarbonate	mmol/L
	Calcium	mmol/L	Calcium	mmol/L
	Phosphorus	mmol/L	Phosphorus	mmol/L
	Magnesium	mmol/L	Magnesium	mmol/L
Hormonology	TSH	mIU/L		
	fT4	pmol/L		
	FSH	IU/L	TSH	mIU/L
	LH	IU/L	fT4	pmol/L
	Estradiol	ng/L	Cortisol	µg/dL
	Testosterone	pg/mL		
	ACTH	pg/mL		
	Cortisol	µg/dL		
Immunology and serology	CRP	mg/L		
	ANF (= ANA)	Positive or negative (if positive, ratio 1:XXX)		
	Anti-thyroglobulin Ab	IU/mL	CRP	mg/L
	HIV 1 & 2	Positive or negative		
	Hepatitis B sAg	Positive or negative		
	Hepatitis B sAb	IU/L		
	Hepatitis C Ab	Positive or negative		

