Online supplementary file S3 OVATION-65 ancillary studies

Study title	Investigators	Primary objective	Secondary objective	Funding
Measuring baseline	MC Battista	Measure the	Measure the association	Lotte and John
ascorbic acid levels in the	NK Adhikari	associations between	between baseline ascorbic	Hecht Memorial
OVATION-65 trial	F Lamontagne	baseline level of plasma	acid and	Foundation
		ascorbic acid and peak	1) total dose of	
		levels of biomarkers of	vasopressors	
		organ injury* (measured	required to maintain	
		at day 1 [baseline], day	blood pressure;	
		3, and 7) in the	2) biomarkers of	
		permissive hypotension	inflammation* (IL-	
		and usual care groups.	1β, TNF-α, C-	
			reactive protein)	
		Organ injury biomarkers	3) biomarkers of	
		are specified in Table 1	endothelial injury*	
		of the manuscript.	(thrombomodulin,	
			angiopoietin-2)	
Urinary biomarkers of	FM Boisvert	Identify and quantify,	Measure the association	Université de
			renal function	•
•	F Lamontagne		77 11 1 1 1 1 1 1	Dohme
urinary proteome				
			FABPL, CYTC, IGFBP/	
		• •		
Effects of actacholomins	EM Doisvort			Université de
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mar radanzed care	Lamonaghe			
renal injury in the OVATION-65 trial: a Nested analysis of the urinary proteome Effects of catecholamine therapy on the immune system: unsuspected consequences of routine medical interventions and opportunities for individualized care	MC Battista NK Adhikari F Lamontagne FM Boisvert LH Tai JL Parent X Roucou MC Battista NK Adhikari F Lamontagne	using a discovery proteomic approach, new peptides and proteins and their pattern of expression between baseline, day 3 and day 7 in the urine of patients in permissive hypotension and usual care groups. Compare PBMC immune response (Th1/Th2 profiles), adrenergic receptor activity, and proteomic signature between baseline and day 7 in the permissive hypotension and usual care groups	between protein clusters and renal function Validate the predictive value of biomarkers of renal injury*: TIMP2, NGAL, FABPL, CYTC, IGFBP7	Sherbrooke/ Merck Sharp and Dohme Université de Sherbrooke/ Merck Sharp and Dohme

Abbreviations: CYTC, cytochrome C; FABPL, fatty acid-binding protein, liver-type; IGFBP7, insulin-like growth factor-binding protein 7; IL-1 β , interleukin-1 β ; NGAL, neutrophil gelatinase-associated lipocalin; PBMC, peripheral blood mononuclear cell; TIMP2, issue inhibitor of metalloproteinases 2; TNF- α , tumour necrosis factor- α

^{*}All biomarkers are assessed at baseline (day 1) and at days 3 and 7.