INTERNATIONAL SOCIETY for EXTRACELLULAR VESICLES

MIBlood-EV

Standardized Reporting Tool for Blood EV Research (Human)

STUDY INFORMATION

1.0 **Manuscript title**	Unlocking the diagnostic power of plasma extracellular vesicle miR-200 family in pancreatic ductal adenocarcinoma				
1.1 **Corresponding author (Name and Email)**	Adam Frampton (a.frampton@imperial.ac.uk), Elisa Giovannetti (elisa.giovannetti@gmail.com)				
1.2 **Institution name**	Imperial College London, Amsterdam UMC Location Vrije Universiteit Amsterdam				
1.3 **Time period of experiment (e.g. 2022-2024)**	2017-2024	1.4 **Number of samples**	162		
1.5 **Cargo of interest**	✔ Vesicles	☐ Protein	✔ RNA	☐ DNA	☐ Other:
1.6 **Biospecimen type**	✔ Plasma	☐ Serum	1.7 **Biospecimen state**	Frozen	
1.8 **Source of frozen specimens**	Prepared by the lab	1.9 **Years of collection (range)**	2017-2023		

BLOOD COLLECTION AND PROCESSING

2.0 **Patient fasting status**	Fasted	2.1 **Fasting length (e.g. hours/days)**	8 hours		
2.2 **Anatomical access site**	Antecubital fossa	2.3 **Needle diameter (e.g. gauge)**	16G-23G		
2.4 **Blood volume collected (mL)**	2-16				
2.5 **Plasma anticoagulant**	✔ EDTA	☐ Citrate	☐ Heparin	☐ Other:	
2.6 **Serum tube type**		2.7 **Serum clotting time (minutes)**			
2.8 **Time between collection and first centrifugation (range in hours)**	4				
2.9 **Transport temperature**	Room temp (~22°C)	2.10 **Transport condition of tubes**	Unknown		
2.11 **Centrifuge brand and model**	Centrifuge 5810R, A-4-81 rotor, Eppendorf				
2.12 **Bucket rotor type**	Swing	2.13 **Number of centrifugation cycles**	One		
2.14a **1st Centrifugation speed (RCF in x g)**	2500	2.14b **1st Centrifugation time (minutes)**	10		
2.15 **1st Rotor brake**	On	2.16 **1st Centrifugation temperature**	Room temp (~22°C)		
2.17a **2nd Centrifugation speed (RCF in x g)**		2.17b **2nd Centrifugation time (minutes)**			
2.18 **2nd Rotor brake**		2.19 **2nd Centrifugation temperature**			
2.20 **Additional processing steps (e.g. filtration)**					
2.21 **Storage tubes (brand, type, source, catalog number)**	1.5 mL Eppendorf safe-lock tubes (Catalog no. 0030123328)				
2.22 **Storage temperature**	-80°C	2.23 **Length of storage (range in years)**	0-2		

PLASMA/SERUM QUALITY CONTROL

3.0 **Number of freeze-thaw cycles (range)**	0-1		
3.1 **Thawing temperature**	on ice	3.2 **Thawing duration (minutes)**	120

Hemolysis

3.3 **Presence of hemolysis**	No	3.4 **Frequency of hemolyzed samples (e.g. <25%, 25-50%)**	0%		
3.5 **Method used**	Spectrophotometry	3.6 **RBC count (Median, 95% CI, N)**			
3.7 **RBC counter brand and type**					
3.8 **Spectrophotometry hemoglobin concentration (mean g/L)**	0				
3.9 **Spectrophotometer brand, model and wavelength measured (e.g. 414 nm)**	Nanodrop 1000 (Thermo Scientific) spectrophotometer (414nm)				
3.10 **Hemolized samples were discarded**	Yes				

Platelets

3.11 **Presence of platelets**	Not Tested	3.12 **Method used (e.g. Flow Cytometry)**	
3.13 **Marker(s) used (e.g. CD61, CD41)**			
3.14 **Concentration (median, 95% CI, N)**			
3.15 **Platelet counter instrument brand, type and limit of detection (cells/L)**			
3.16 **Flow cytometer brand and type**			
3.17 **Flow cytometry size and fluorescence ranges of detection in nanometers and MESF, respectively**			

Lipoproteins

3.18 **Presence of lipoproteins**	Yes	3.19 **Method used (WB, ELISA, FC)**	Western-blot
3.20 **Spectrophotometry L-index**			
3.21 **Spectrophotometer brand, model and wavelength measured (e.g. 700 nm)**			
3.22 **WB Marker(s) used (e.g. Apo B)**	ApoA1		
3.23 **Western blot images provided in manuscript?**	Yes		
3.24 **Flow cytometry marker(s) used (e.g. ApoB)**			
3.25 **Flow cytometry concentration (median, 95% CI, N)**			
3.26 **Flow cytometer brand and type**			
3.27 **Flow cytometry size and fluorescence ranges of detection in nanometers and MESF, respectively**			
3.28 **Brand and catalog number for ELISA kit used for each Apolipoprotein test (e.g. ApoB)**			
3.29 **Concentration measured for each Apolipoprotein tested (mean µg/mL)**			