Supporting Information 7: "Calibration of flow cytometers enables reproducible measurements of extracellular vesicle concentrations and reference range establishment"

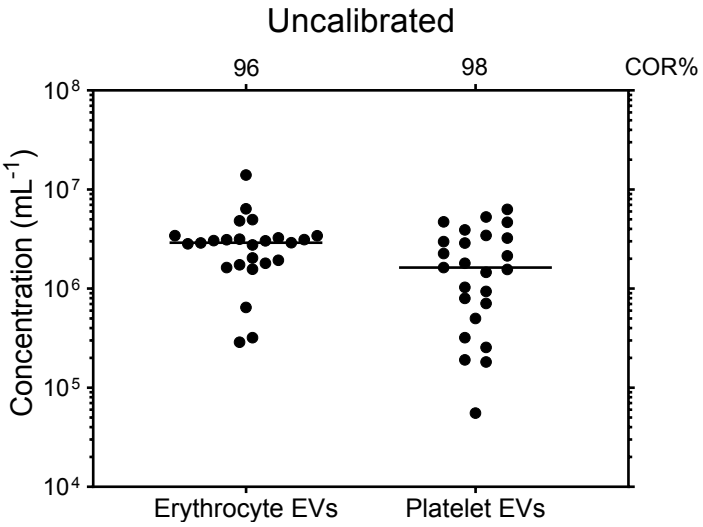

Figure S7.1. Concentration of erythrocyte-derived (cluster of differentiation (CD) 235a-phycoerythrin (PE)) and platelet-derived (CD61-allophycocyanin (APC)) extracellular vesicles (EVs) in a 30-fold diluted plasma EV test sample measured (symbols) with flow cytometers participating in an interlaboratory comparison study without calibration. Black lines indicate the median concentration. The dispersion of the measured concentrations was quantified using the coefficient of range (COR).

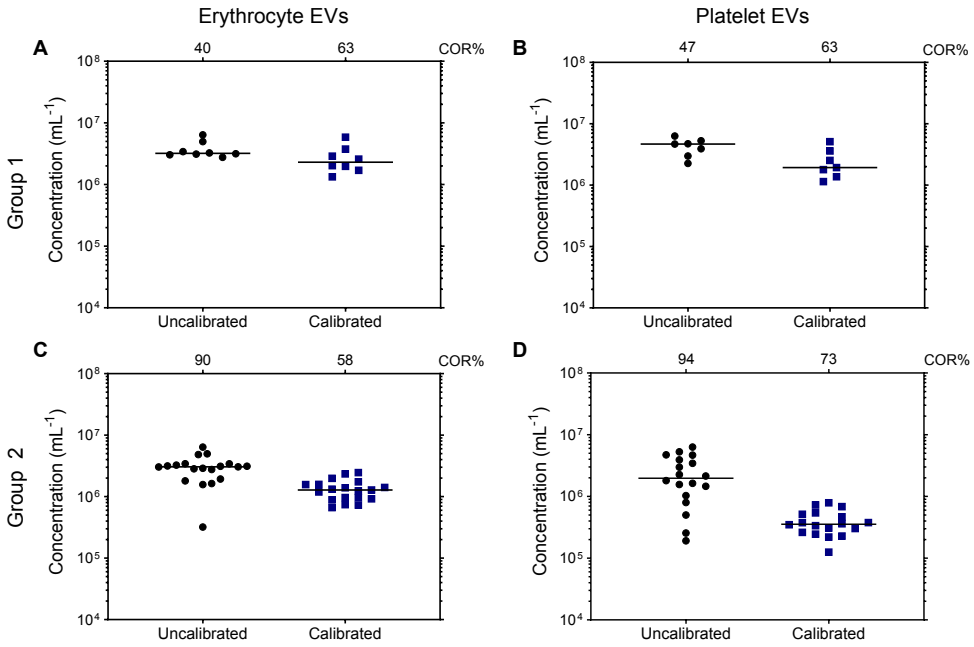

Figure S7.2. Influence of calibration on the concentration of extracellular vesicles (EVs) in a 30-fold diluted plasma EV test sample measured (symbols) with different flow cytometers (FCMs). The panels represent erythrocyte-derived (cluster of differentiation (CD) 235a-phycoerythrin (PE)) EVs in (A) group 1 (8 FCMs) and (C) group 2 (19 FCMs) and platelet-derived (CD61-allophycocyanin (APC)) in (B) group 1 (7 FCMs) and (D) group 2 (18 FCMs). Establishments of the groups is explained in Figure 3. The different symbols represent measured EV concentrations without calibration or application of gates (black circles), or with all aspects, i.e., the flow rate, fluorescence detectors and light scattering detector, calibrated (blue squares). Black lines indicate the median concentration. The dispersion of the measured concentrations was quantified using the coefficient of range (COR).