

## **Supplemental Digital Content 1: Supplemental Methods**

### *Isolation of microparticles*

A sample of 250  $\mu\text{L}$  of frozen plasma was thawed on melting ice for 1 h and centrifuged for 30 min at 18,890g at 20°C to pellet the microparticles. After centrifugation, 225  $\mu\text{L}$  of the supernatant were removed. The pellet was resuspended in 225  $\mu\text{L}$  phosphate-buffered saline (PBS) containing citrate, after which samples were centrifuged again and supernatants were removed again. The pellet containing microparticles was resuspended in 75  $\mu\text{L}$  PBS-citrate for the final concentration.

### *Flowcytometry of microparticles*

Five microliters of the microparticles suspension was diluted in 30  $\mu\text{L}$   $\text{CaCl}_2$  (2.5 mmol/L)-containing PBS. Then 5  $\mu\text{L}$  allophycocyanin-labelled annexin V were added to all tubes plus 5  $\mu\text{L}$  of the cell-specific monoclonal antibody or isotype-matched control antibodies (total volume: 50  $\mu\text{L}$ ). The samples were incubated in the dark for 15 min at room temperature. After incubation, 900  $\mu\text{L}$  of calcium-containing PBS were added to all tubes (except to the annexin V control, to which 900  $\mu\text{L}$  of citrate-containing PBS were added). Samples were analysed for 1 min in a fluorescence automated cell sorter FACS Calibur with CellQuest software (Becton Dickinson, San Jose, CA). Both forward scatter and sideward scatter were set at logarithmic gain. To establish the origin of the microparticles, we performed a triple labeling on each sample using different fluorochromes (Fluorescein isothiocyanate (FITC)-labeled  $\text{IgG}_1$ , phycoerythrin (PE)-labeled  $\text{IgG}_1$ , and allophycocyanin conjugated annexin V). These antibodies were used to analyse the origin of the circulating microparticles: CD61-PE (expressed on thrombocytes), CD63 (expressed by activated platelets), CD14 (mostly found on macrophages), CD4 (from T-cells), CD8 (also from T-cells), CD20 (from B-cells), glycophorin A-FITC (CD235a) from erythrocytes, CD144-FITC exposed on endothelial cells,

CD62e-PE (E-selectin exposed on activated endothelial cells). Microparticles were identified based on their size and density and on their ability to bind cell-type specific CD antibodies and annexin V. Microparticles positive for annexin V, CD62e-PE and Cd144-FITC were considered to be derived from activated endothelial cells.

### *Antibodies*

FITC-labeled IgG<sub>1</sub>, PE-labeled IgG<sub>1</sub>, CD4-PE, CD8-PE, CD14-PE, CD20-FITC, CD61-PE, CD146-PE, Tissue Factor-PE were obtained from Becton Dickinson, Ig2b-PE and IgGpoly-FITC from Immuno Quality Products (Groningen, The Netherlands), CD24-PE (Serotec, Oxford, United Kingdom), CD61-FITC, CD235a from DAKO (Glostrup, Denmark), CD62e-PE from Ansell corporation (Bayport, MN), CD63-PE from Beckman Coulter Inc. (Fullerton, CA), CD144-FITC from Alexis Biochemicals (San Diego, CA), Allophycocyanin-conjugated annexinV was obtained from Caltag (Burlington, CA).