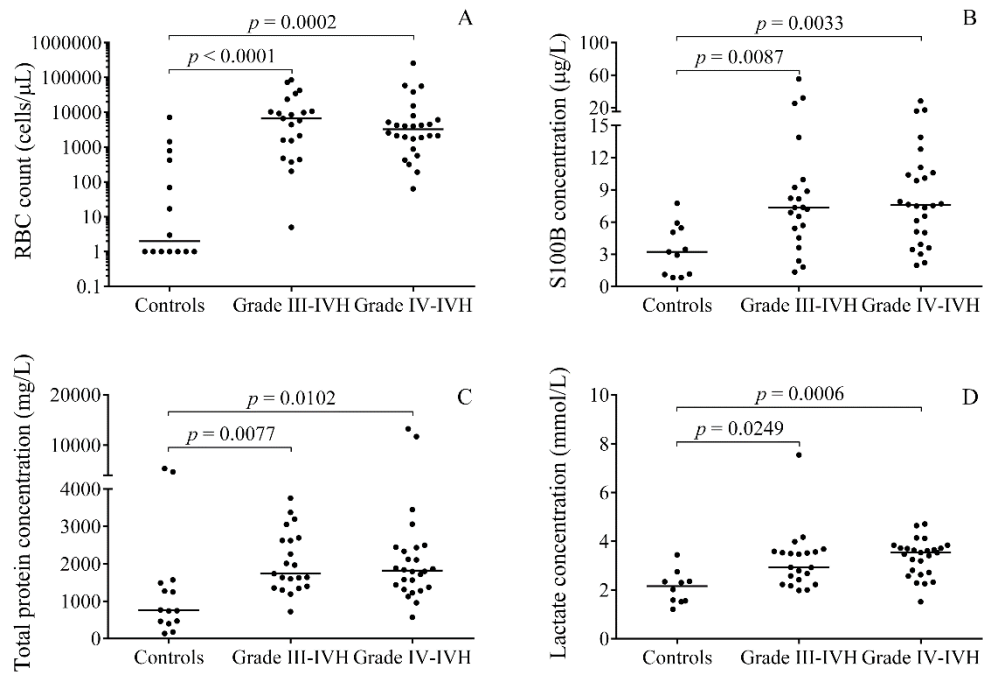
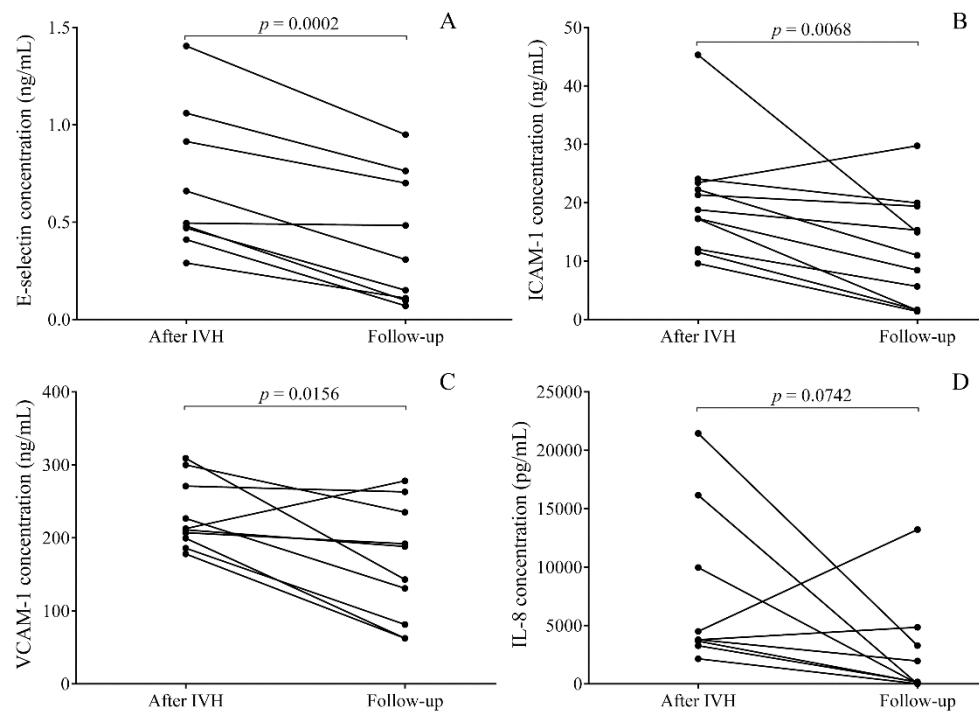


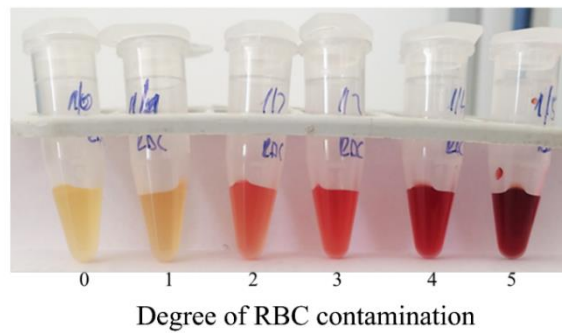
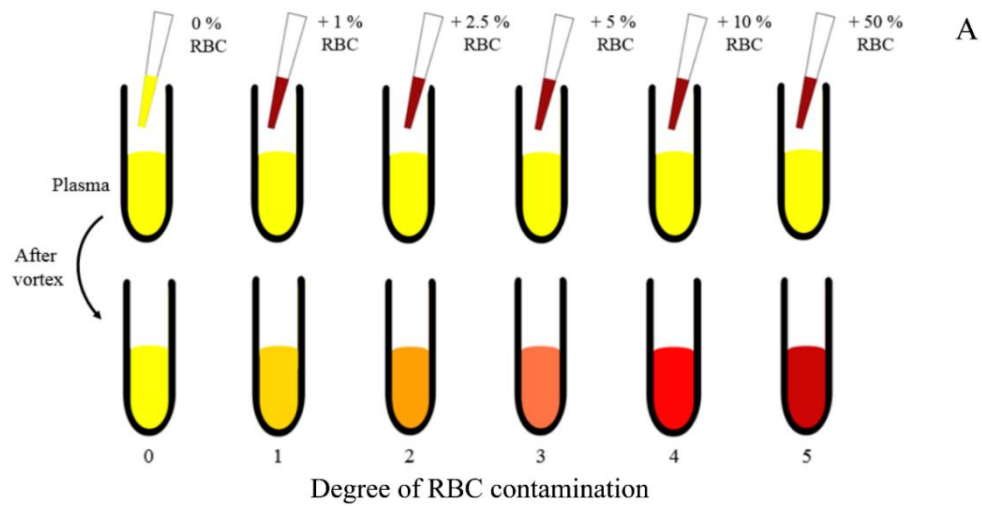
Supplementary materials



Supplementary Figure 1. Routine laboratory parameters of grade III ($n = 21$) and grade IV ($n = 26$) IVH patients as well as clinical control subjects ($n = 14$). In baseline cerebrospinal fluid samples, RBC count (A) and the levels of S100B (B), total protein (C), and lactate (D) were significantly higher in both IVH severity groups versus controls; however, there was no difference between the two subcohorts. For comparison, Kruskal-Wallis test with Dunn's multiple comparisons test was performed. IVH: intraventricular hemorrhage, RBC: red blood cell, S100B: S100 calcium-binding protein B.



Supplementary Figure 2. Reduced E-selectin (A), ICAM-1 (B), and VCAM-1 (C) concentrations were analyzed in the follow-up (oxidized Hb negative) CSF samples in comparison to baseline specimens containing oxidized Hb forms ($n = 11$). In contrast, IL-8 (D) did not show a significant alteration over time (9 samples were available for this analysis). Dots represent single values of the pairs. Wilcoxon matched-pairs sign rank test or paired t-test were performed for the comparisons. CSF: cerebrospinal fluid, Hb: hemoglobin, ICAM-1: intercellular adhesion molecule 1, IL-8: interleukin-8, IVH: intraventricular hemorrhage, VCAM-1: vascular cell adhesion molecule 1.



Supplementary Figure 3. Graphical representation of in vitro controlled hemolysis experiments. Top panel (A) illustrates the performance of RBC contamination (0-50 % v/v) of plasma samples (n=5/condition), while the bottom part of the figure (B) depicts the colorimetric scale of induced hemolysis (tube 0 means the non-hemolytic control sample, and tube 5 contains the highest amount of RBC). RBC: red blood cell.

Supplementary Table 1. Sequences of primers for the analysis of cell-free mature miRNAs. In case of stem-loop reverse transcription primers, the miRNA specific sequences are highlighted in red. Universal ProbeLibrary probe #21 (5' – TGGCTCTG – 3') was used for the RT-qPCR measurements. miRNA: microRNA, RT-qPCR: real-time quantitative polymerase chain reaction.

miRNAs	Stem-loop primers for reverse transcription (5' – 3')	Forward primers (5' – 3')	Universal reverse primer (5' – 3')
miR-223-3p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC TGGGGT	GTTGGGTGTCAGTTTGTC AAAT	GTGCAGGGTCCGAGGT
miR-155-5p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC ACCCCT	GTGGGTTAATGCTAATCG TGAT	GTGCAGGGTCCGAGGT
miR-181b-5p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC ACCCAC	GTTTGAACATTTCATTGCT GTCG	GTGCAGGGTCCGAGGT
miR-126-3p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC CGCATT	GGGTCGTACCGTGAGTAAT	GTGCAGGGTCCGAGGT
miR-16-5p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC CGCCAA	GTTTGGTAGCAGCACGTA AATA	GTGCAGGGTCCGAGGT
cel-miR-39-3p	GTTGGCTCTGGTGCAGGGTCCGAGG TATTCGCACCAGAGCCAAC CAAGCT	GTGTCACCGGGTGTAATC	GTGCAGGGTCCGAGGT