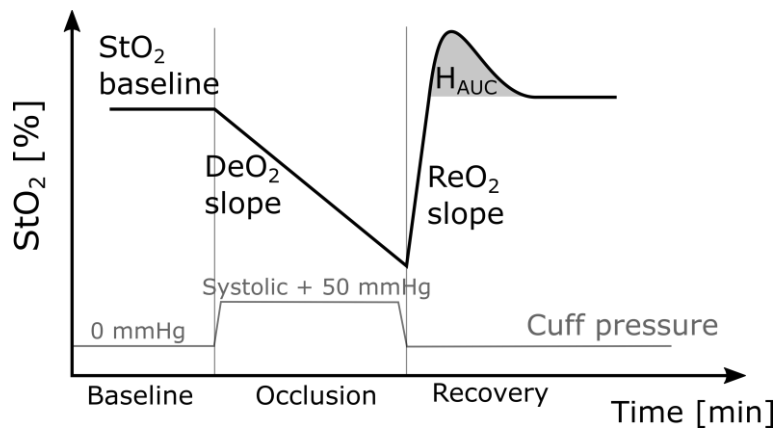


Additional file 1

VOT variables calculation



StO₂ [%]: Directly measured by the NIRS device

THC [μM/L]: Directly measured by the NIRS device

DeO₂ [%/min]: The deoxygenation slope has been calculated by linearly fitting the curve StO₂ [%] vs. Time [min] from the instant the occlusion started up to one minute after the occlusion started

ReO₂ [%]: The reoxygenation slope has been calculated by linearly fitting the curve StO₂ [%] vs. Time [min] from the instant the occlusion ended up to the instant the saturation reached the baseline value.

H_{AUC} [%·min]: The hyperemic response has been calculated as the area defined by the hyperemic peak and the recovery baseline StO₂ level