

## Supplementary information

### White blood cell margination in microcirculation

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#### Description of supplemental movies

The movies illustrate the dynamics of red blood cells (RBCs) and a white blood cell (WBC) in 3D blood flow simulations. RBCs are shown in red, while a WBC is drawn in white. The flow is from the left to the right.

**Movie S1 (movie\_ht0.3\_g30.mpg):** The movie shows the 3D blood flow for  $H_t = 0.3$  and  $\dot{\gamma}^* = 32$ , where the WBC is margined toward the wall.

**Movie S2 (movie\_ht0.2\_g115.mpg):** The movie shows the 3D blood flow for  $H_t = 0.2$  and  $\dot{\gamma}^* = 115$ , where no WBC margination occurs.