Calculations of flux

Leg and hepato-splanchnic fluxes (release or uptake) of acylcarnitines were calculated by multiplying the arterial-to-venous difference by the plasma flow:

$$Flux_x\left(\frac{nmol}{min}\right) = \left\{[x]_{artery}\left(\frac{nmol}{L}\right) - [x]_{vein}\left(\frac{nmol}{L}\right)\right\} x\ Plasma\ flow\left(\frac{L}{min}\right)$$

The leg blood flow was measured by ultrasound Doppler technique whereas the hepatic blood flow was measured using indocyanine green clearance. The blood flow was converted into a plasma flow by adjusting with the hematocrit, as detailed in Ref. 18. In the one-legged exercise study, the leg flux during fasting was calculated from both legs using the pre-exercise time point (t=0).