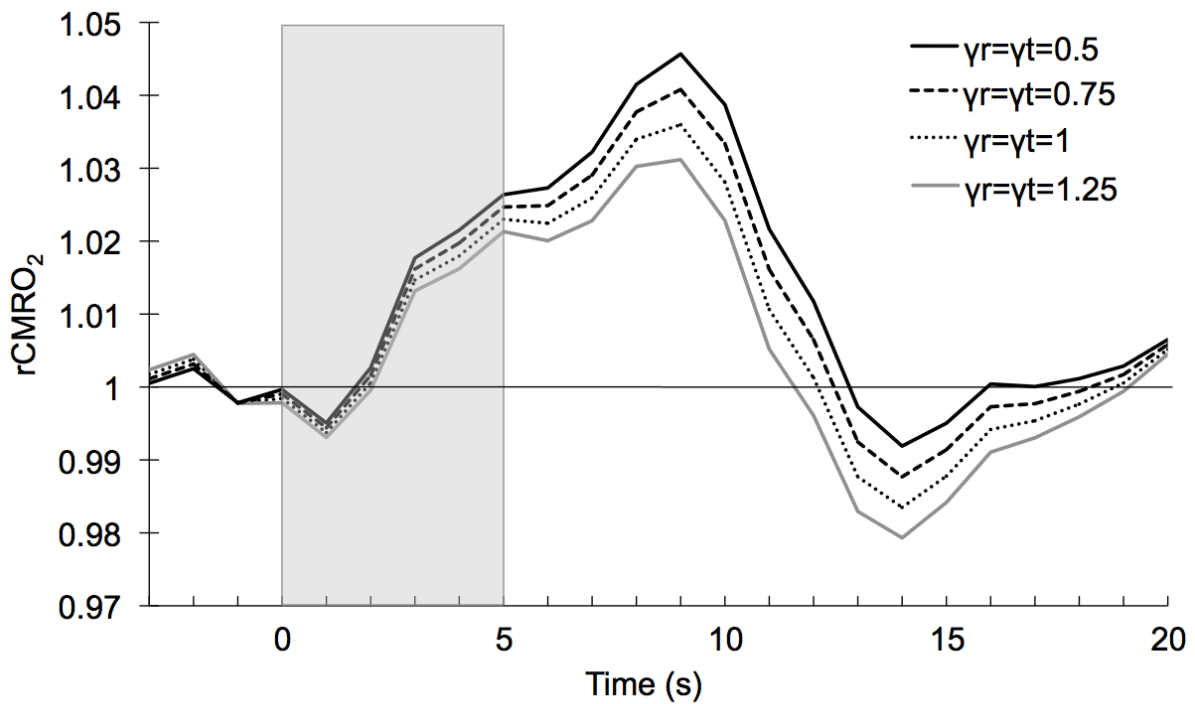
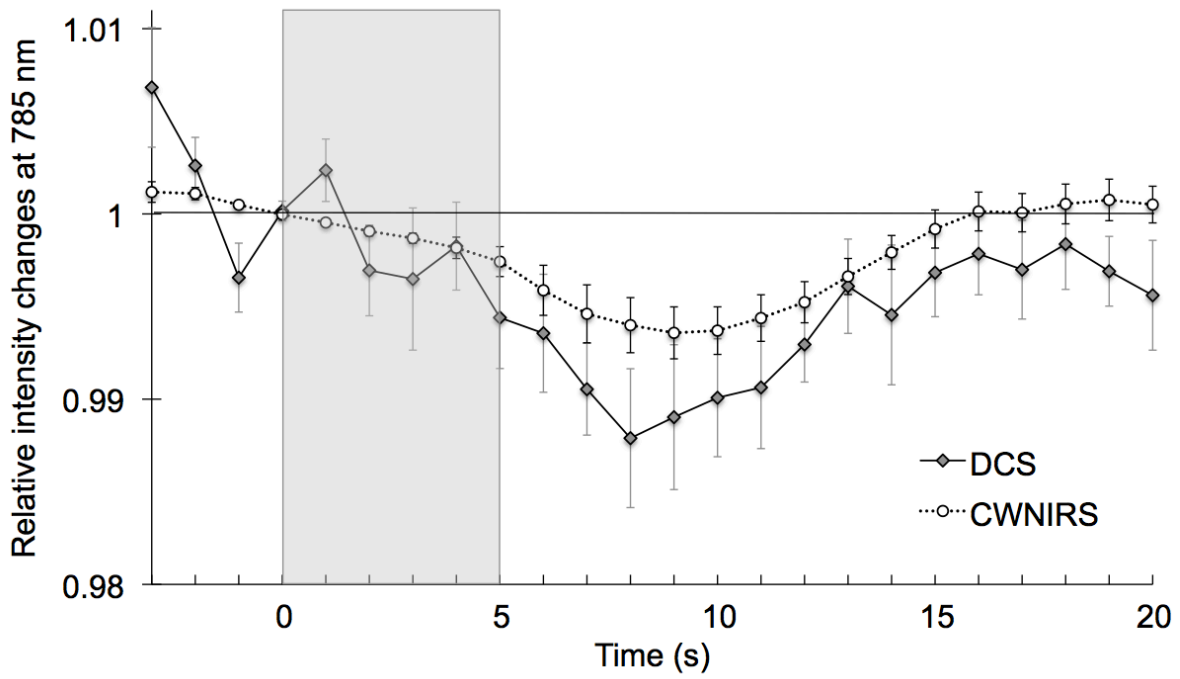


Supplementary Fig. 1. Average of the hemodynamic response obtained from 18 stimuli on subject 3 using CWNIRS. Source S2 is positioned over C3 in the 10-20 system. Red is HbO, blue is HbR, green is HbT.



Supplementary Fig. 2. $rCMRO_2$ calculated using equation (8) with different values of γ_r and γ_t .



Supplementary Fig. 3. Grand average of relative changes in DCS intensity and CWNIRS intensity \pm standard error. Pearson's correlation coefficient $r = 0.86$.