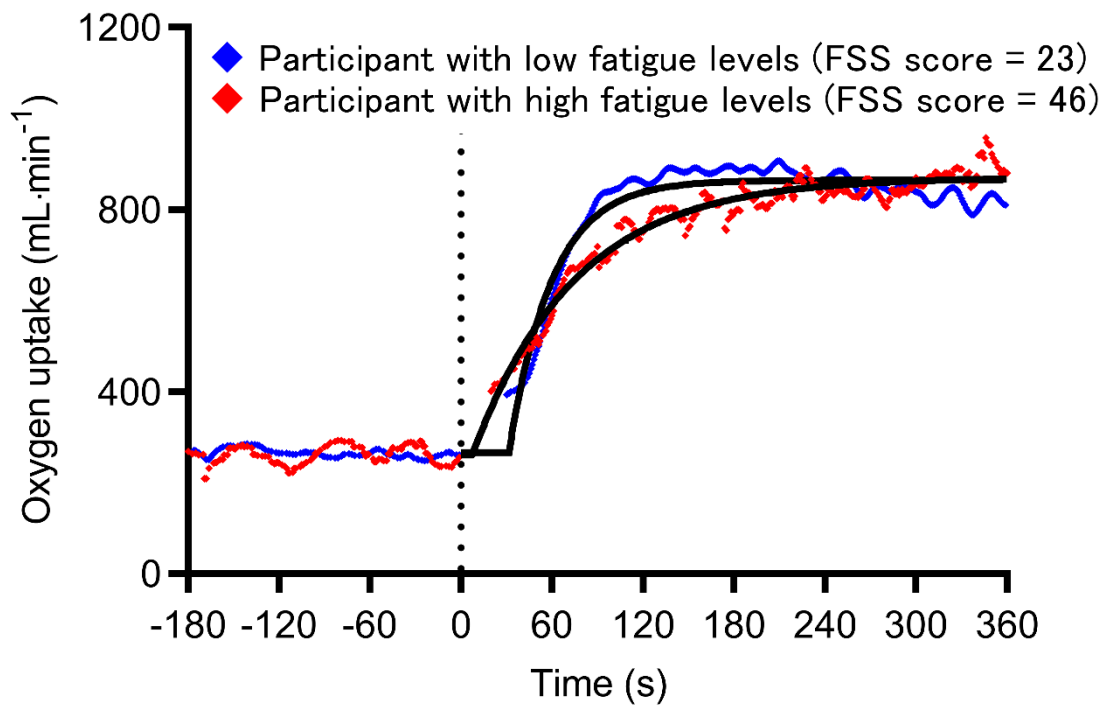


Supplementary Information

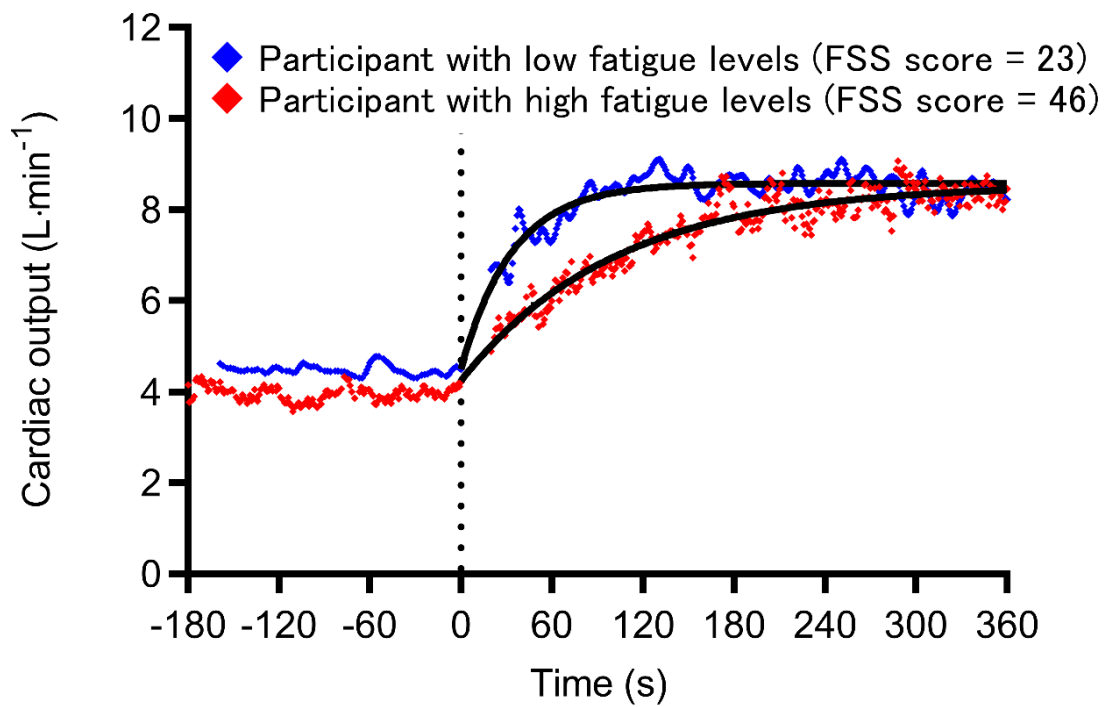
Cardiorespiratory responses to exercise related to post-stroke fatigue severity

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Supplementary Figure S1: Changes in oxygen consumption at the onset of exercise in a participant with low fatigue levels and one with high fatigue levels. Model fits on the data are displayed with solid lines. The vertical dashed line indicates the onset of exercise. The time constant and coefficient of determination of oxygen uptake kinetics in the participant with low fatigue levels (◆) were 28.4 s and 0.99, respectively. The time constant and coefficient of determination of oxygen uptake kinetics in the participant with high fatigue levels (◆) were 67.8 s and 0.99, respectively. FSS, Fatigue Severity Scale.



Supplementary Figure S2: Changes in cardiac output at the onset of exercise in a participant with low fatigue levels and one with high fatigue levels. Model fits on the data are displayed with solid lines. The vertical dashed line indicates the onset of exercise. The time constant and coefficient of determination of cardiac output kinetics in the participant with low fatigue levels (◆) were 33.3 s and 0.96, respectively. The time constant and coefficient of determination of cardiac output kinetics in the participant with high fatigue levels (◆) were 91.6 s and 0.98, respectively. FSS, Fatigue Severity Scale.

Supplementary Table S1: Multiple regression analysis to examine the association between the FSS score and $\tau\dot{V}O_2$, adjusted for logical confounding variables

Variable	β	t value	p value
<i>Age-adjusted model: $F(2, 20) = 3.002$</i>			0.072
$\tau\dot{V}O_2$	0.484	2.373	0.028
Age	-0.251	-1.234	0.232
<i>Sex-adjusted model: $F(2, 20) = 4.597$</i>			0.023
$\tau\dot{V}O_2$	0.428	2.313	0.031
Sex (male =1, female = 0)	-0.378	-2.040	0.055
<i>Type of stroke-adjusted model: $F(2, 20) = 3.754$</i>			0.041

$\tau\dot{V}O_2$	0.490	2.502	0.021
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Type of stroke (ischaemic =1, haemorrhagic = 0)	-0.326	-1.663	0.112
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<i>Time since stroke-adjusted model: $F(2, 20) = 2.095$</i>			0.149
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$\tau\dot{V}O_2$	0.415	2.041	0.055
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Time since stroke	-0.029	-0.144	0.887
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<i>Presence of depressive symptoms-adjusted model: $F(2, 20) = 2.469$</i>			0.110
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$\tau\dot{V}O_2$	0.418	2.087	0.050
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Depressive symptoms (present = 1, absent = 0)	0.160	0.799	0.434
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<i>Functional Independence Measure motor score-adjusted model: $F(2, 20) = 2.766$</i>			0.087
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$\tau\dot{V}O_2$	0.441	2.213	0.039
Functional Independence Measure motor score	-0.212	-1.064	0.300

FSS, Fatigue Severity Scale; $\tau\dot{V}O_2$, time constant of oxygen uptake kinetics; β , standard coefficient.