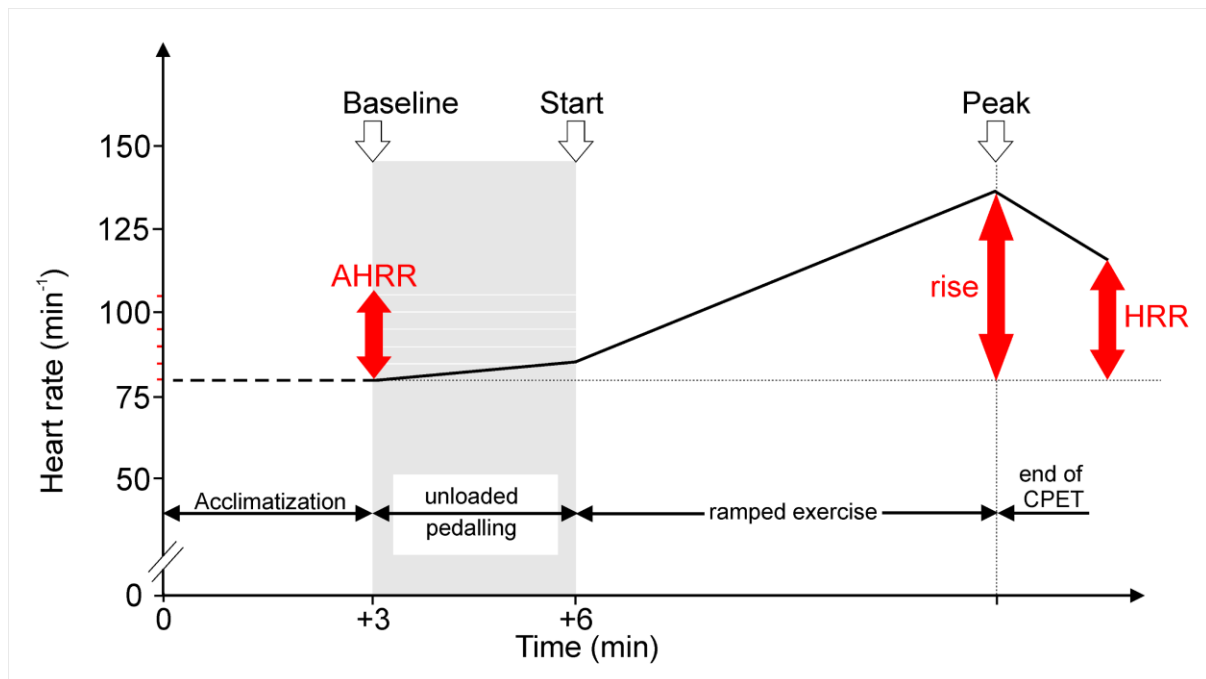


**Figure 1. CPET protocol and summary of measures derived.** AHRR- anticipatory heart rate increase from baseline, during unloaded pedalling (indicative of sympathetic activity). Rise- difference between peak heart rate attained during exercise and baseline. HRR- heart rate recovery, difference between peak heart rate and heart rate 1 minute after cessation of exercise (vagal (parasympathetic) activity).



**Supplementary Table 1. CPET characteristics of non-diabetic patients with/without stage 3 CKD (includes hypertensive patients)**

Data are shown mean (SD). All % predicted values control for age, gender, weight. Bpm-beats.minute<sup>-1</sup>.

	eGFR>60	CKD Stage 3	P value
VO <sub>2</sub> peak (% predicted)	75±24	69±18	<0.001
VO <sub>2</sub> AT (mL/min.kg)	11.5±3.0	10.4±2.3	0.003
VE-VCO <sub>2</sub> slope	30.1±4.9	33.9±6.3	<0.001
Oxygen pulse (% predicted)	90±29	86±21	0.24
Resting heart rate (bpm)	84±15	84±15	0.99
Peak heart rate (bpm)	139±25	130±19	0.02
Heart rate recovery (bpm)	20±13	16±9	0.02

**Supplementary Table 2. CPET characteristics of CKD stage 3a versus 3b patients.**

Data are shown mean (SD). All % predicted values control for age, gender, weight. Bpm-beats.minute<sup>-1</sup>. Stage 3a, n=93; stage 3b, n=31 patients.

	CKD Stage 3a	CKD Stage 3b	P value
VO <sub>2</sub> peak (% predicted)	69±18	69±18	0.98
VO <sub>2</sub> AT (mL/min.kg)	10.4±2.2	9.7±2.3	0.14
VE-VCO <sub>2</sub> slope	33.8±5.9	34.2±5.8	0.76
Oxygen pulse (% predicted)	85±21	92±26	0.13
Resting heart rate (bpm)	85±16	79±16	0.11
Anticipatory heart rate (bpm)	12±10	11±8	0.42
Peak heart rate (bpm)	130±20	121±24	0.04
Heart rate recovery (bpm)	15±8	14±9	0.76