

Supplement

Table S1. Association between 25-hydroxy vitamin D and CPET parameters in men and women.

	PeakVO ₂		VO ₂ @AT		Oxygen pulse		Maximum power output	
	β coefficient (SE)	p	β coefficient (SE)	p	β coefficient (SE)	p	β coefficient (SE)	p
MEN								
<i>SHIP-1</i>								
25(OH)D, per ng/ml	9.023 (2.170)	<.01	4.174 (1.561)	0.01	0.111 (0.032)	<.01	0.781 (0.168)	<.01
25(OH)D ¹	-	-	-	-	-1.033E ⁻⁴ (5.567E ⁻⁵)	0.06		
<i>SHIP-TREND</i>								
25(OH)D, per ng/ml	9.567 (2.717)	<.01	3.103 (1.719)	0.07	0.046 (0.015)	<.01	0.649 (0.206)	<.01
WOMEN								
<i>SHIP-1</i>								
25(OH)D, per ng/ml	1.625 (1.187)	0.17	1.049 (0.825)	0.20	0.008 (0.008)	0.28	0.222 (0.109)	0.04
<i>SHIP-TREND</i>								
25(OH)D, per ng/ml	5.423 (1.572)	<.01	3.864 (1.020)	<.01	0.041 (0.011)	<.01	0.424 (0.129)	<.01

25(OH)D = 25-hydroxy vitamin D; peakVO₂ = highest 10-second average of VO₂ in the last minute of exercise; VO₂@AT = VO₂ at anaerobic threshold; SE = standard error. The models were adjusted for age, weight, height, physical activity, smoking, time between core examination and pulmonary function testing and month of blood sampling. 25(OH)D¹ represents the component of the spline function.

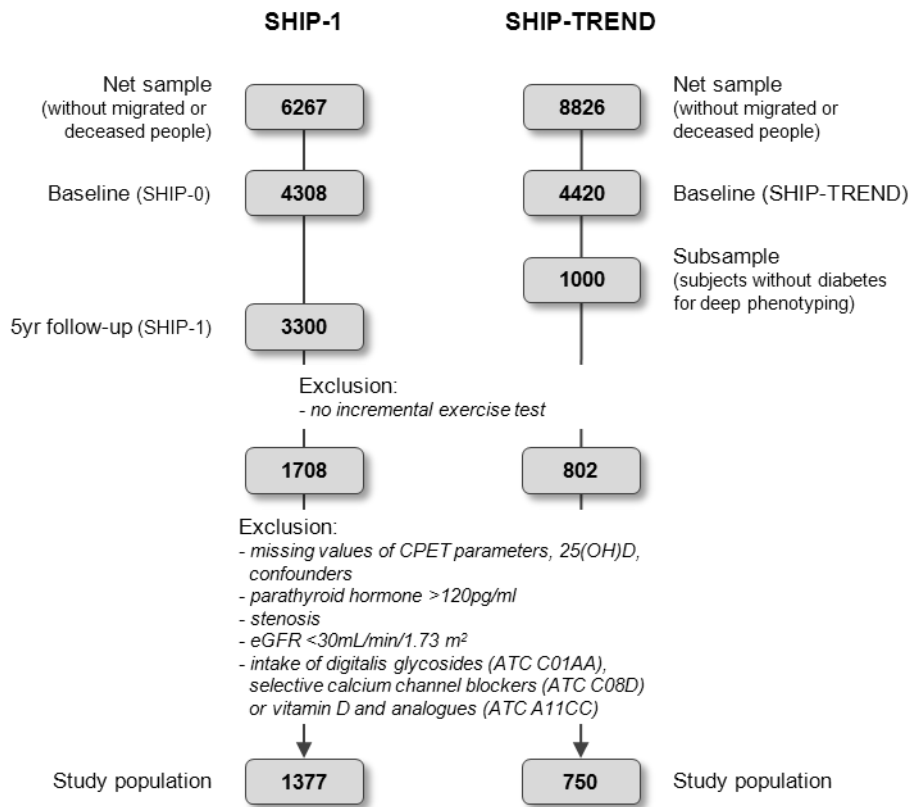


Figure S1. Flow diagram for the investigated study populations.

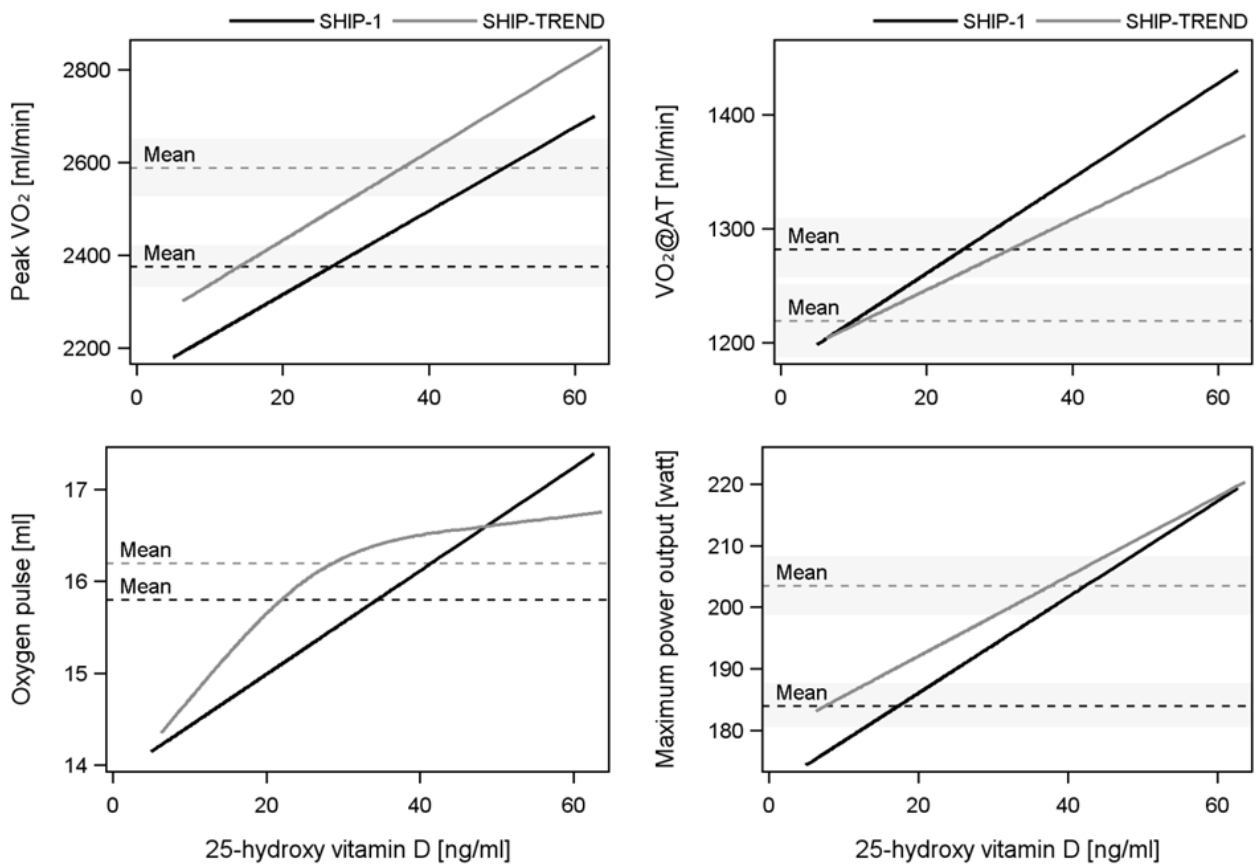


Figure S2. Predicted mean of highest 10-second average of VO_2 in the last minute of exercise (peak VO_2), VO_2 at anaerobic threshold ($\text{VO}_2@AT$), oxygen pulse and maximum power output depending on 25-hydroxy vitamin D levels for men in SHIP-1 and SHIP-TREND. Linear regression analyses adjusted for age, weight, height, physical activity, smoking, time between core examination and pulmonary function testing and month of blood sampling.

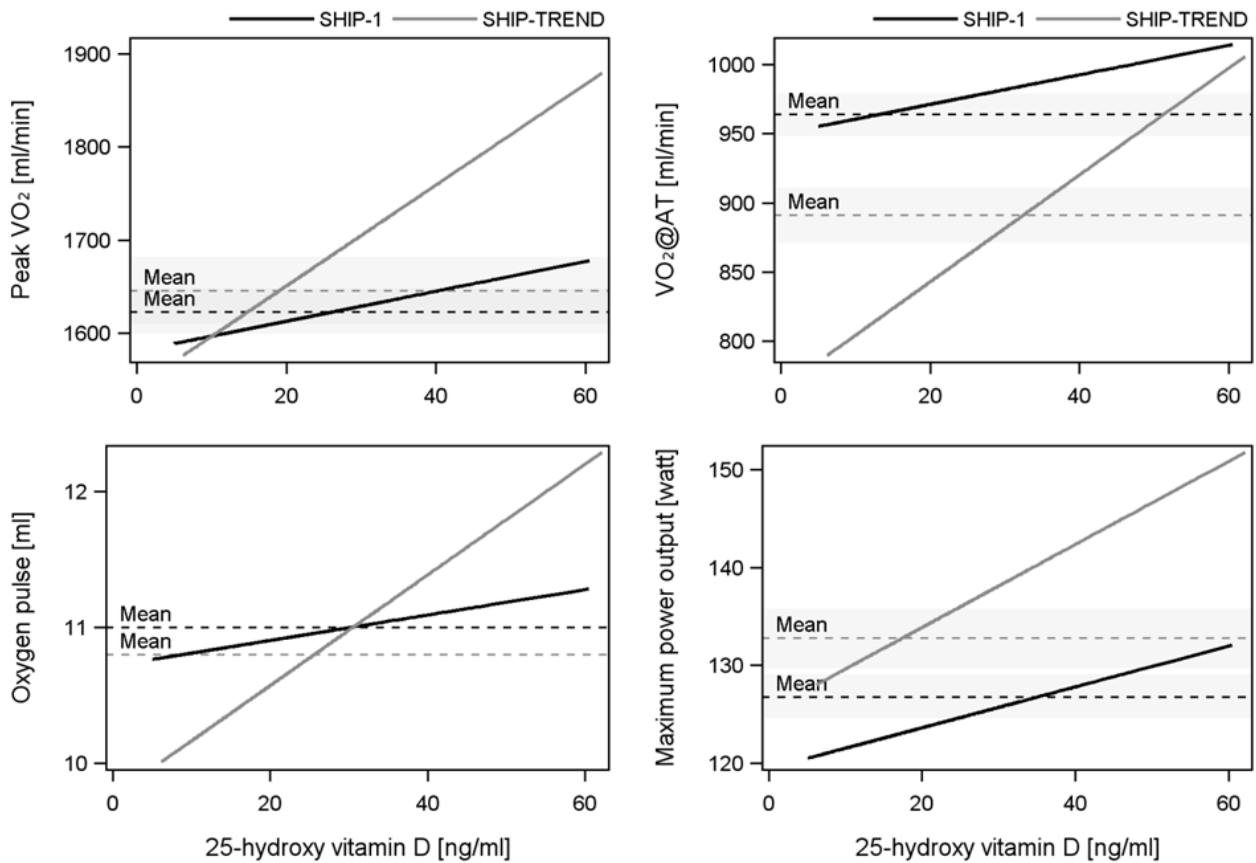


Figure S3. Predicted mean of highest 10-second average of VO_2 in the last minute of exercise (peak VO_2), VO_2 at anaerobic threshold ($VO_2@AT$), oxygen pulse and maximum power output depending on 25-hydroxy vitamin D levels for women in SHIP-1 and SHIP-TREND. Linear regression analyses adjusted for age, weight, height, physical activity, smoking, time between core examination and pulmonary function testing and month of blood sampling.