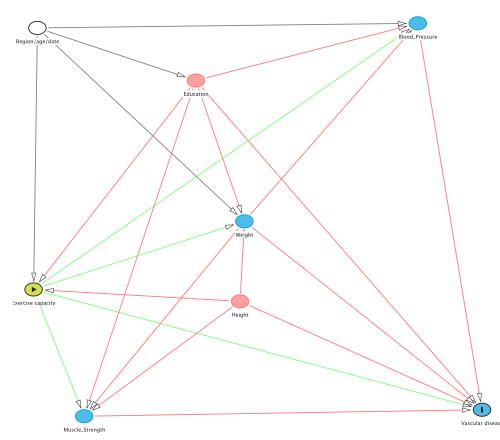
Supplementary figure 1 - Directed acyclic graphs of suggested causal relations of exercise capacity to arrhythmias and vascular disease

Vascular disease



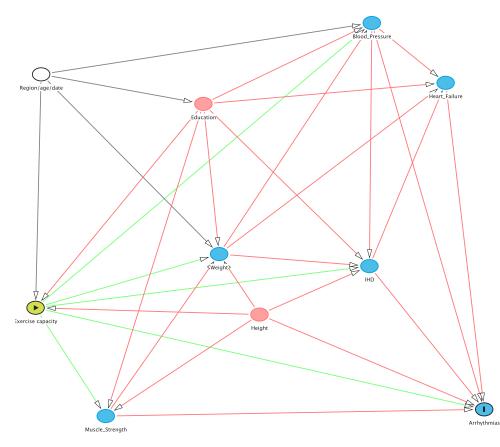
Minimal sufficient adjustment sets for estimating the total effect of Exercise capacity on Vascular disease:

Region/Age/Date, Education, Height,

Minimal sufficient adjustment sets for estimating the direct effect of Exercise capacity on Vascular disease:

Region/Age/Date, Education, Height, Weight, Blood Pressure and Muscle Strength

Arrhythmias

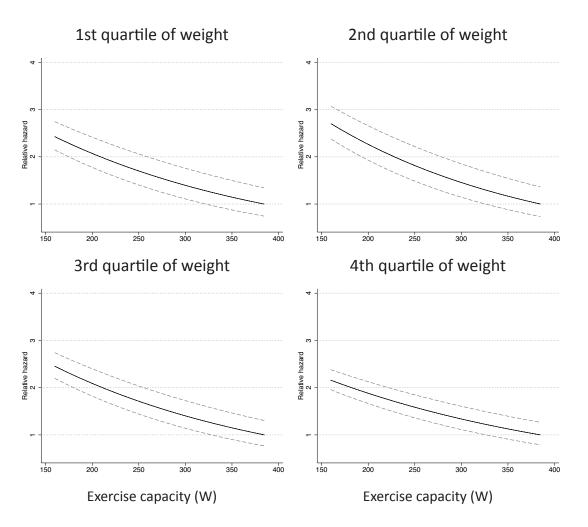


Minimal sufficient adjustment sets for estimating the total effect of Exercise capacity on Arrhythmias:

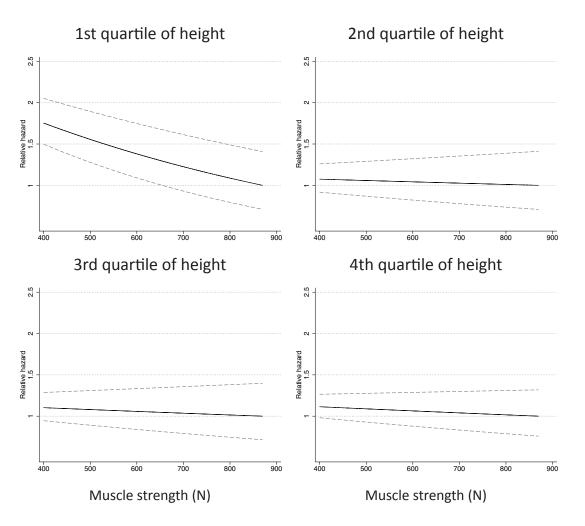
Region/Age/Date, Education, Height,

Minimal sufficient adjustment sets for estimating the direct effect of Exercise capacity on Arrhythmias:

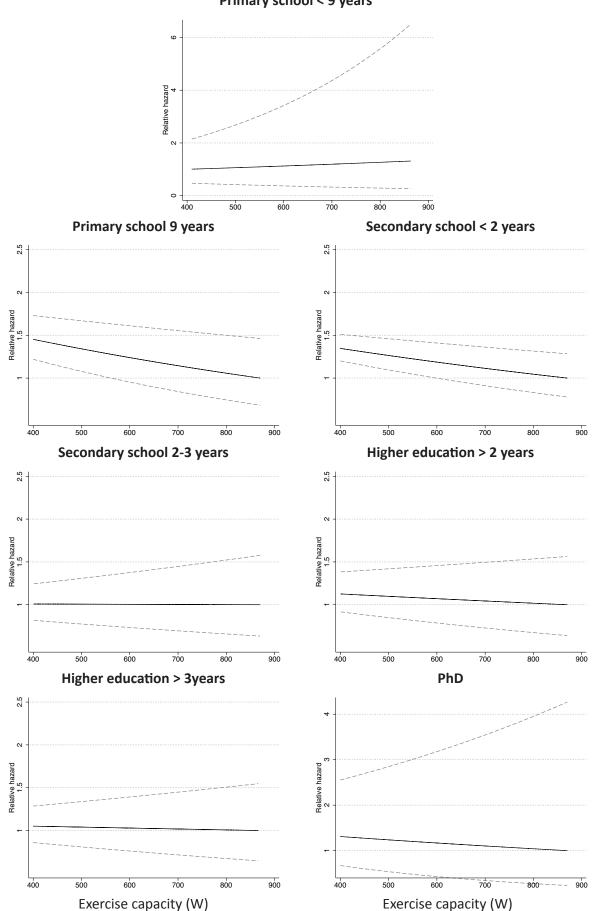
Region/Age/Date, Education, Height, Weight, Blood Pressure, Muscle Strength and Ischemic heart diseases (IHD) **Supplementary Figure 2** - Relations of exercise capacity to risk of vascular disease by quartiles of weight. Solid line represents relative hazard and dashed lines are 95% confidence interval limits; from multivariable regression spline Cox proportional hazards (adjusted for age, conscription date, region, educational level, height, muscle strength, systolic and diastolic blood pressure). Only observations between 1 and 99 percentiles are shown.



Supplementary Figure 3 - Relations of muscle strength to risk of arrhythmias by quartiles of height. Solid line represents relative hazard and dashed lines are 95% confidence interval limits; from multivariable regression spline Cox proportional hazards (adjusted for age, conscription date, region, educational level, maximal exercise capacity, systolic and diastolic blood pressure and ischemic heart disease). Only observations between 1 and 99 percentiles are shown.

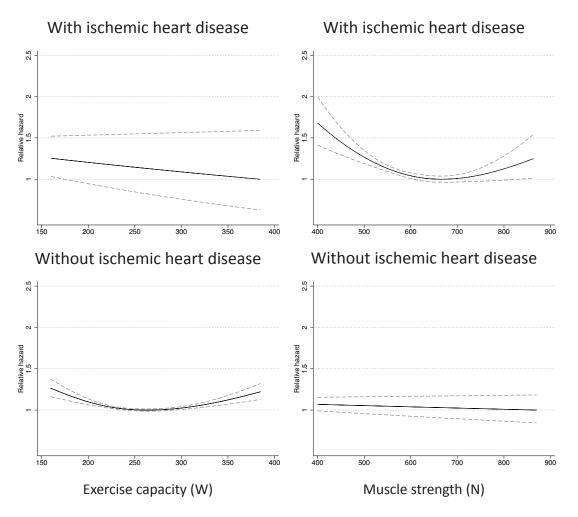


Supplementary Figure 4 - Relations of muscle strength to risk of arrhythmias by educational level. Solid line represents relative hazard and dashed lines are 95% confidence interval limits; from multivariable regression spline Cox proportional hazards (adjusted for age, conscription date, region, educational level, maximal exercise capacity, systolic and diastolic blood pressure and ischemic heart disease). Only observations between 1 and 99 percentiles are shown.

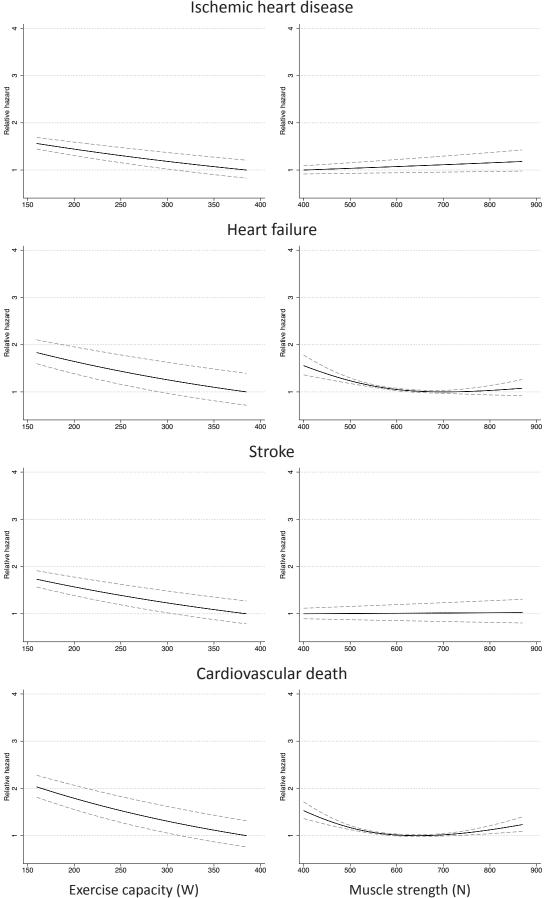


Primary school < 9 years

Supplementary Figure 5 - Relations of exercise capacity and muscle strength to risk of arrhythmias by ischemic heart disease. Solid line represents relative hazard and dashed lines are 95% confidence interval limits; from multivariable regression spline Cox proportional hazards (adjusted for age, conscription date, region, educational level, maximal exercise capacity, systolic and diastolic blood pressure). Only observations between 1 and 99 percentiles are shown.



Supplementary figure 6 - Relations of exercise capacity and muscle strength to risk of subgroups of vascular disease. Solid line represents relative hazard and dashed lines are 95% confidence interval limits, from multivariable regression spline Cox proportional hazards. Model A (adjusted for age, conscription date, region, height, education level and muscle strength/exercise capacity [muscle strength adjusted for exercise capacity, and vice versa]). Only observations between 1 and 99 percentiles are shown.



Ischemic heart disease

Supplementary figure 7 - Relations of exercise capacity and muscle strength to risk of subgroups of arrhythmias. Solid line represents relative hazard and dashed lines are 95% confidence interval limits; from multivariable regression spline Cox proportional hazards. **Model A** (adjusted for age, conscription date, region, height, education level, muscle strength/exercise capacity [muscle strength adjusted for exercise capacity, and vice versa]) Only observations between 1 and 99 percentiles are shown.

