

Supplementary Material - Free testosterone and cardiometabolic parameters in adult men - comparison of algorithms for calculation of serum free testosterone

Supplementary Table 1 Hazard ratios (95% confidence interval [CI]) for quartiles of age-standardized hormone z-scores associated with type 2 diabetes (ICD-8: 250, ICD-10: E11) and ischemic heart disease (ICD-8: 410-414; ICD-10: I20-I25)

Numbers at risk (cases)	Type 2 diabetes ^a		Ischemic Heart Disease ^b	
	5176 (210)	5064 (203)	5072 (659)	4965 (645)
	Model I ^c	Model II ^d	Model I ^c	Model II ^d
Free Androgen Index (FAI)				
Lowest	1	1	1	1
Second	1.17 (0.76-1.79)	1.11 (0.72-1.72)	1.07 (0.86-1.34)	1.09 (0.86-1.37)
Third	1.42 (0.94-2.14)	1.38 (0.91-2.09)	1.07 (0.86-1.34)	1.05 (0.84-1.32)
Highest	1.86* (1.25-2.75)	1.74* (1.17-2.59)	1.41* (1.13-1.74)	1.37* (1.10-1.70)
P-trend ^e	<0.01	<0.01	<0.01	<0.01
Vermeulen et al. (cFTV)				
Lowest	1	1	1	1
Second	0.71 (0.50-1.01)	0.81 (0.56-1.17)	1.00 (0.80-1.25)	1.04 (0.83-1.31)
Third	0.56* (0.38-0.81)	0.73 (0.49-1.08)	1.03 (0.83-1.29)	1.15 (0.92-1.45)
Highest	0.52* (0.35-0.77)	0.74 (0.49-1.10)	1.14 (0.92-1.42)	1.25 (0.99-1.57)
P-trend ^e	<0.01	0.10	0.21	0.03
Zakharov et al. (cFTZ)				
Lowest	1	1	1	1
Second	0.64* (0.46-0.90)	0.74 (0.52-1.06)	1.03 (0.82-1.28)	1.11 (0.88-1.39)
Third	0.43* (0.29-0.63)	0.59* (0.40-0.89)	1.06 (0.85-1.32)	1.17 (0.93-1.47)
Highest	0.35* (0.23-0.53)	0.59* (0.39-0.91)	1.02 (0.82-1.27)	1.22 (0.97-1.53)
P-trend ^e	<0.01	<0.01	0.80	0.09
Total Testosterone (TT)				
Lowest	1	1	1	1
Second	0.64* (0.45-0.89)	0.79 (0.56-1.12)	0.99 (0.79-1.23)	1.07 (0.86-1.34)
Third	0.40* (0.27-0.58)	0.55* (0.36-0.82)	1.04 (0.84-1.29)	1.17 (0.93-1.46)
Highest	0.31* (0.21-0.47)	0.55* (0.35-0.85)	0.93 (0.74-1.16)	1.11 (0.88-1.40)
P-trend ^e	<0.01	<0.01	0.62	0.30

*p<0.05

^a Men with known type 2 diabetes at baseline (n=163) excluded. ^b Men with known cardiovascular disease at baseline (n=245) excluded.

^c Model assuming different baseline hazards for non-smokers and smokers with age as the underlying time scale and ^d adjusted for BMI, study, alcohol consumption and exercise. ^e trend over quartiles of age-standardized hormones