

**Supplementary material**

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**Supplementary Table S1. Hazard ratio of three mortality risks in four skinfold thickness groups after exclusion of all deaths (N=211) within first 2 years of observation**

		Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
All-cause mortality							
Triceps	HR (95%CI)	0.980 (0.972,0.989)	0.980 (0.968,0.992)	0.978 (0.9,0.989)	0.976 (0.965,0.988)	0.971 (0.957,0.986)	0.967 (0.952,0.981)
	P value	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Subscapular	HR (95%CI)	0.984 (0.976,0.992)	0.990 (0.981,1.000)	0.989 (0.980,0.999)	0.989 (0.979,0.998)	0.985 (0.972,0.997)	0.982 (0.969,0.994)
	P value	< 0.001	0.04	0.03	0.02	0.02	0.004
Suprailiac	HR (95%CI)	0.974 (0.967,0.981)	0.986 (0.979,0.994)	0.985 (0.977,0.993)	0.986 (0.978,0.994)	0.979 (0.968,0.990)	0.971 (0.959,0.983)
	P value	< 0.001	0.001	< 0.001	0.001	< 0.001	< 0.001
Thigh	HR (95%CI)	0.991 (0.985,0.997)	0.987 (0.978,0.996)	0.985 (0.976,0.994)	0.985 (0.976,0.994)	0.984 (0.974,0.994)	0.983 (0.973,0.993)
	P value	0.005	0.004	0.002	0.002	0.001	0.001

CV mortality							
Triceps	HR (95%CI)	0.985 (0.972,0.998)	0.988 (0.970,1.006)	0.984 (0.965,1.002)	0.982 (0.963,1.000)	0.984 (0.962,1.006)	0.975 (0.953,0.997)
	<i>P</i> value	0.03	0.19	0.1	0.05	0.15	0.03
Subscapular	HR (95%CI)	0.986 (0.974,0.999)	1.000 (0.986,1.015)	0.997 (0.983,1.012)	0.997 (0.982,1.012)	1.001 (0.982,1.021)	0.996 (0.977,1.015)
	<i>P</i> value	0.04	0.99	0.73	0.69	0.89	0.68
Suprailiac	HR (95%CI)	0.968 (0.957,0.979)	0.986 (0.973,0.999)	0.983 (0.970,0.996)	0.984 (0.971,0.997)	0.980 (0.964,0.997)	0.968 (0.950,0.986)
	<i>P</i> value	< 0.001	0.03	0.01	0.01	0.02	0.001
Thigh	HR (95%CI)	0.996 (0.987,1.005)	0.990 (0.977,1.004)	0.988 (0.975,1.002)	0.988 (0.974,1.002)	0.989 (0.974,1.004)	0.986 (0.971,1.002)
	<i>P</i> value	0.4	0.18	0.1	0.1	0.15	0.08
Cancer mortality							
Triceps	HR (95%CI)	0.983 (0.966,1.000)	0.983 (0.961,1.006)	0.982 (0.960,1.005)	0.982 (0.959,1.005)	0.960 (0.933,0.989)	0.963 (0.936,0.991)
	<i>P</i> value	0.05	0.16	0.13	0.12	0.006	0.009
Subscapular	HR (95%CI)	0.990 (0.974,1.007)	0.993 (0.975,1.011)	0.993 (0.975,1.011)	0.993 (0.975,1.011)	0.982 (0.959,1.006)	0.977 (0.953,1.001)
	<i>P</i> value	0.23	0.44	0.46	0.46	0.14	0.06
Suprailiac	HR (95%CI)	0.987 (0.974,1.001)	0.997 (0.982,1.013)	0.997 (0.982,1.013)	0.998 (0.982,1.013)	0.987 (0.966,1.008)	0.982 (0.960,1.005)
	<i>P</i> value	0.07	0.72	0.74	0.76	0.22	0.12
Thigh	HR (95%CI)	0.989 (0.977,1.001)	0.984 (0.966,1.002)	0.983 (0.966,1.001)	0.983 (0.965,1.001)	0.972 (0.953,0.991)	0.975 (0.956,0.995)

	<i>P</i> value	0.08	0.08	0.07	0.06	0.005	0.01
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Model 1 = unadjusted

Model 2 = age, sex, race

Model 3 = age, sex, race, CRP, albumin, LDL

Model 4 = age, sex, race, CRP, albumin, LDL, systolic blood pressure, smoking, congestive heart failure, stroke, DM, \*other cancer

Model 5 = age, sex, race, CRP, albumin, LDL, systolic blood pressure, smoking, congestive heart failure, stroke, DM, other cancer, BMI

Model 6 = age, sex, race, CRP, albumin, LDL, systolic blood pressure, smoking, congestive heart failure, stroke, DM, other cancer, waist circumference

CRP: C- reactive protein; LDL: low density lipoprotein; DM: diabetes mellitus; BMI: body mass index

\*Other cancer includes cancers of the following sites except for skin cancer: bladder, breast, cervix, colon, rectum, large intestine, prostate, uterus, bone, brain, nervous system, esophagus, gallbladder, Hodgkin's disease, kidney, leukemia, liver, lung, lymphoma, mouth, pharynx, ovary, pancreas, stomach, testicles, others.

**Supplementary Table S2. Hazard ratio of three mortality risks in four skinfold thickness presented in quintiles groups**

		Lowest Quintile	2 <sup>nd</sup> Quintile	3 <sup>rd</sup> Quintile	4 <sup>th</sup> Quintile	Highest Quintile
All-cause mortality						
Triceps	HR (95%CI)	Ref.	0.732 (0.601,0.891)	0.665 (0.532,0.831)	0.539 (0.415,0.699)	0.484 (0.356,0.658)
	<i>P</i> value	Ref.	0.002	< 0.001	< 0.001	< 0.001
Subscapular	HR (95%CI)	Ref.	0.677 (0.554,0.827)	0.629 (0.508,0.778)	0.621 (0.493,0.783)	0.583 (0.443,0.768)
	<i>P</i> value	Ref.	< 0.001	< 0.001	< 0.001	< 0.001
Suprailiac	HR (95%CI)	Ref.	0.761 (0.624,0.928)	0.664 (0.531,0.830)	0.552 (0.426,0.716)	0.450 (0.328,0.618)
	<i>P</i> value	Ref.	0.007	< 0.001	< 0.001	< 0.001
Thigh	HR (95%CI)	Ref.	0.851 (0.701,1.034)	0.700 (0.562,0.872)	0.684 (0.529,0.884)	0.541 (0.403,0.724)
	<i>P</i> value	Ref.	0.11	0.001	0.004	< 0.001
CV mortality						
Triceps	HR (95%CI)	Ref.	0.664 (0.488,0.905)	0.695 (0.494,0.979)	0.622 (0.421,0.919)	0.525 (0.328,0.841)
	<i>P</i> value	Ref.	0.01	0.04	0.02	0.007
Subscapular	HR (95%CI)	Ref.	0.838 (0.611,1.148)	0.829 (0.596,1.153)	0.884 (0.619,1.264)	0.805 (0.522,1.241)
	<i>P</i> value	Ref.	0.27	0.26	0.5	0.33
Suprailiac	HR (95%CI)	Ref.	0.875 (0.647,1.184)	0.734 (0.518,1.039)	0.713 (0.479,1.061)	0.487 (0.293,0.808)
	<i>P</i> value	Ref.	0.39	0.08	0.1	0.005
	HR	Ref.	0.844	0.831	0.788	0.623

Thigh	(95%CI)		(0.620,1.150)	(0.595,1.159)	(0.534,1.162)	(0.398,0.977)
	<i>P</i> value	Ref.	0.28	0.27	0.23	0.04
Cancer mortality						
Triceps	HR (95%CI)	Ref.	0.841 (0.572,1.237)	0.598 (0.382,0.936)	0.392 (0.229,0.671)	0.271 (0.260,0.854)
	<i>P</i> value	Ref.	0.38	0.02	0.001	0.01
Subscapular	HR (95%CI)	Ref.	0.619 (0.413,0.928)	0.654 (0.432,0.989)	0.530 (0.334,0.842)	0.555 (0.327,0.942)
	<i>P</i> value	Ref.	0.02	0.4	0.007	0.03
Suprailiac	HR (95%CI)	Ref.	0.676 (0.450,1.016)	0.768 (0.500,1.181)	0.393 (0.230,0.671)	0.529 (0.293,0.955)
	<i>P</i> value	Ref.	0.06	0.23	0.001	0.3
Thigh	HR (95%CI)	Ref.	0.700 (0.481,1.018)	0.501 (0.325,0.774)	0.445 (0.269,0.738)	0.331 (0.187,0.587)
	<i>P</i> value	Ref.	0.06	0.002	0.002	< 0.001

Hazard ratios in this table are adjusted for age, sex, race, C- reactive protein, albumin, low density lipoprotein, systolic blood pressure, smoking, congestive heart failure, stroke, diabetes mellitus, other cancer, waist circumference