

1 Additional table 1. Association of the METS-IR index with UACR for different levels of age, blood glucose, BP, and eGFR by menopause status

Variable	METS-IR							
	Q1	Q2		Q3		Q4		
	Reference	OR (95%CI)	P value	OR (95%CI)	P value	OR (95%CI)	P value	
Postmenopausal women								
Age, y								
<55 (n=4,482)	1	1.054(0.799–1.390)	0.711	1.098(0.800–1.508)	0.561	1.014(1.057–1.247)*	0.024	
≥55,<64 (n=7,636)	1	1.009(0.811–1.256)	0.935	1.229(0.977–1.545)	0.078	1.520(1.172–1.972)*	0.002	
≥65 (n=4,508)	1	1.121(0.789–1.304)	0.039	1.216(0.928–1.593)	0.156	1.304(0.969–1.757)	0.080	
Blood glucose, mmol/l b								
FBG<5.6 and PBG<7.8 (n=6,971)	1	1.040(0.850–1.272)	0.703	1.093(0.859–1.392)	0.468	0.997(0.993–1.101)	0.172	

5.6≤FBG<7.0 or 7.8≤PBG<11.1 (n=7,132)	1	1.239(0.991–1.549)	0.060	1.178(0.934–1.486)	0.165	1.422(1.007–1.827)*	0.006
FBG≥7.0 or PBG≥11.1 (n=2,276)	1	1.125(0.725–1.745)	0.600	1.146(0.747–1.758)	0.532	1.565(1.176–2.083)*	0.002
BP, mmHg c							
SBP<120 and DBP<80 (n=4,613)	1	1.029(0.802–1.320)	0.822	0.917(0.676–1.244)	0.577	0.926(0.630–1.362)	0.697
120≤SBP<140 and/or 80≤DBP<90 (n=6,272)	1	1.075(0.845–1.368)	0.556	1.349(1.048–1.736)*	0.020	1.644(1.234–2.190)*	0.001
SBP≥140 or DBP≥90 (n=5,494)	1	1.297(0.985–1.707)	0.064	1.198(0.933–1.537)	0.157	1.293(1.012–1.651)*	0.040
eGFR, mL/min/1.73 m <sup>2</sup> d							
eGFR≥90 (n=15,093)	1	1.144(0.989–1.324)	0.069	1.229(1.051–1.437)	0.010	1.395(1.166–1.670)*	<0.001

60≤eGFR<90 (n=1,195)	1	1.283(0.781–1.109)	0.325	1.048(0.627–1.752)	0.859	1.324(0.751–2.336)	0.332
eGFR<60 (n=91)	1	0.147(0.014-1.572)	0.102	0.248(0.039-1.565)	0.138	1.041(0.992-1.092)	0.113
Premenopausal women							
Age, y							
<55 (n=7,332)	1	1.228(0.937–1.611)	0.137	0.868(0.666–1.132)	0.295	1.284(0.978–1.685)	0.072
55-64 (n=2,412)	1	1.009(0.811–1.256)	0.935	1.229(0.977–1.545)	0.078	1.319(1.148–1.583)*	0.019
≥65 (n=11)	1	NA		NA		NA	
Blood glucose, mmol/l <sup>b</sup>							
FBG<5.6 and PBG<7.8 (n=5,866)	1	1.319(0.939–1.852)	0.110	0.959(0.896–1.180)	0.821	0.985(0.619–1.568)	0.950

5.6≤FBG<7.0 or 7.8≤PBG<11.1 (n=2,236)	1	1.014(0.607–1.692)	0.958	0.904(0.581–1.406)	0.653	1.179(0.765–1.818)	0.456
FBG≥7.0 or PBG≥11.1 (n=1,900)	1	0.984(0.958–1.012)	0.255	1.007(0.968–1.047)	0.161	1.009(1.002–1.017)*	0.017
BP, mmHg c							
SBP<120 and DBP<80 (n=4,295)	1	1.322(0.896–1.950)	0.160	1.142(0.742–1.756)	0.547	1.151(0.670–1.978)	0.610
120≤SBP<140 and/or 80≤DBP<90 (n=3,617)	1	0.869(0.568–1.328)	0.516	1.123(0.723–1.744)	0.605	1.010(0.971–1.051)	0.616
SBP≥140 or DBP≥90 (n=2,090)	1	1.560(0.752–2.237)	0.232	0.966(0.823–1.497)	0.903	1.640(1.010–2.174)*	0.044
eGFR, mL/min/1.73 m <sup>2</sup> d							
eGFR≥90 (n=9,541)	1	1.232(0.937–1.620)	0.135	0.912(0.700–1.188)	0.493	1.311(1.017–1.722)*	0.025
60≤eGFR<90 (n=421)	1	1.016(0.980–1.053)	0.401	1.010(0.963–1.058)	0.688	1.084(0.974–1.207)	0.138

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eGFR<60 (n=40)

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2 METS-IR, metabolic score for insulin resistance; UACR, urinary albumin-to-creatinine ratio; DBP, diastolic blood pressure; SBP, systolic blood  
3 pressure; eGFR, estimated glomerular filtration rate; FBG, fasting blood glucose; PBG, 2-h post-load blood glucose; CI, confidence interval; OR,  
4 odds ratio.

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