

Table 3 Correlations of some risk factors of diabetes according to glycaemic status among a rural population in River Nile State, Sudan, 2013 (n = 1111)

Risk factor	Normoglycaemic		IGT <sup>b</sup>		Diabetes mellitus <sup>c</sup>		Statistical analysis	
	No.	%	No.	%	No.	%	$\chi^2$	P-value
<b>Total<sup>a</sup></b>	1068	96.1	14	1.3	29	2.6		
<b>Age group (years)</b>								
18-35	527	98.5	2	0.4	6	1.1	25.15	0.01
36-55	367	94.1	10	2.6	13	3.3		
56-75	141	92.8	2	1.3	9	5.9		
76-95	30	96.8	0	0.0	1	3.2		
<b>Sex</b>								
Male	445	97.6	4	0.9	7	1.5	4.5	0.11
Female	623	95.1	10	1.5	22	3.4		
<b>Educational level</b>								
Illiterate	143	92.3	3	1.9	9	5.8	16.87	0.01
10 years or less	381	94.8	6	1.5	15	3.7		
More than 10 years	340	97.7	3	0.9	5	1.4		
College and above	199	99.0	2	1.0	0	0.0		
<b>Occupation</b>								
Housewife	473	93.8	9	1.8	22	4.4	171	0.25
Self-employed	177	97.8	1	0.6	3	1.6		
Employee	133	96.4	2	1.4	3	2.2		
Student	129	100.0	0	0.0	0	0.0		
Farmer	98	98.0	1	1.0	1	1.0		
Unemployed or retired	12	100.0	0	0.0	0	0.0		
<b>BMI group</b>								
Underweight	62	98.8	1	1.6	1	1.6	10.1	0.26
Normal weight	482	97.0	1	0.2	14	2.8		
Overweight	306	94.7	8	2.5	9	2.8		
Obese	148	94.8	4	2.6	4	2.6		
Morbidly obese	58	95.1	2	3.3	1	1.6		
<b>Blood pressure</b>								
Normotensive	130	100.0	0	0.0	0	0.0	14.9	0.02
Prehypertension	497	96.9	6	1.2	10	1.9		
Hypertension	457	94.2	9	1.9	19	3.9		
<b>Family history of diabetes</b>								
Yes	401	94.6	7	1.7	16	3.8	4.6	0.10
No	667	97.1	7	1.0	13	1.9		
<b>Alcohol consumption</b>								
Yes	13	100.0	0	0.0	0	0.0	0.53	0.77
No	1055	98.8	14	100.0	29	100.0		
<b>Cigarette smoking</b>								
Yes	102	96.2	1	0.9	3	2.8	0.12	0.9
No	966	90.4	13	1.2	26	2.5		
<b>Most common tribes</b>								
Gaaleen	706	95.5	12	1.6	21	2.8	84.9	0.01
Rubatab	163	96.4	1	0.6	5	3.0		
Mairafab	79	100.0	0	0.0	0	0.0		
Manasir	13	86.7	1	6.7	1	6.7		
Ababda	14	100.0	0	0.0	0	0.0		
Shyqja	13	100.0	0	0.0	0	0.0		

<sup>a</sup>Totals in some categories are different as data were missing; <sup>b</sup>Random blood glucose 9.4-11 mmol/L or fasting blood glucose 6.1-6.9 mmol/L; <sup>c</sup>Fasting blood glucose  $\geq 7$  mmol/L.

BMI = body mass index; IGT = Impaired glucose tolerance