

Prescreening tools for diabetes and obesity-associated dyslipidaemia: comparing BMI, waist and waist hip ratio. The D.E.S.I.R. Study.

Beverley Balkau, David Sapinho, Anne Petrella, Leila Mhamdi, Martine Cailleau, Dominique Arondel, Marie-Aline Charles

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Table 2 Characteristics of different thresholds for the body mass index (BMI), waist circumference and waist hip ratio (WHR), corresponding to a 30%, 40% and 50% screening of the population. Subjects aged 40 to 64 years who were not treated for diabetes. The D.E.S.I.R. Study.

	MEN					WOMEN				
	threshold	sensitivity	specificity	LR ¹	(se+sp)/2	threshold	sensitivity	specificity	LR	(se+sp)/2
screening with a blood test 30% of the population										
BMI	27 kg/m ²	77 %	69 %	2.5	73 %	26 kg/m ²	77 %	71 %	2.6	74 %
Waist	96 cm	74 %	71 %	2.5	72 %	83 cm	82 %	69 %	2.6	75 %
WHR	0.96	66 %	70 %	2.2	68 %	0.83	77 %	70 %	2.5	73 %
screening with a blood test 40% of the population										
BMI	26 kg/m ²	83 %	57 %	1.9	70 %	25 kg/m ²	86 %	63 %	2.4	75 %
Waist	93 cm	83 %	59 %	2.0	71 %	80 cm	86 %	60 %	2.2	73 %
WHR	0.94	81 %	59 %	2.0	70 %	0.81	77 %	60 %	1.9	68 %
screening with a blood test screening 50% of the population										
BMI	25 kg/m ²	89 %	44 %	1.6	66 %	24 kg/m ²	86 %	53 %	1.8	70 %
Waist	90 cm	87 %	47 %	1.6	67 %	77 cm	86 %	49 %	1.7	68 %
WHR	0.93	81 %	53 %	1.7	67 %	0.79	86 %	48 %	1.7	67 %
optimal thresholds, maximizing the average of the sensitivity and specificity										
BMI	27 kg/m ²	77 %	69 %	2.5	73 %	25 kg/m ²	86 %	63 %	2.4	75 %
Waist	97 cm	72 %	74 %	2.8	73 %	85 cm	77 %	74 %	3.0	76 %
WHR	0.95	77 %	65 %	2.2	71 %	0.83	77 %	70 %	2.5	73 %

¹ LR : likelihood ratio