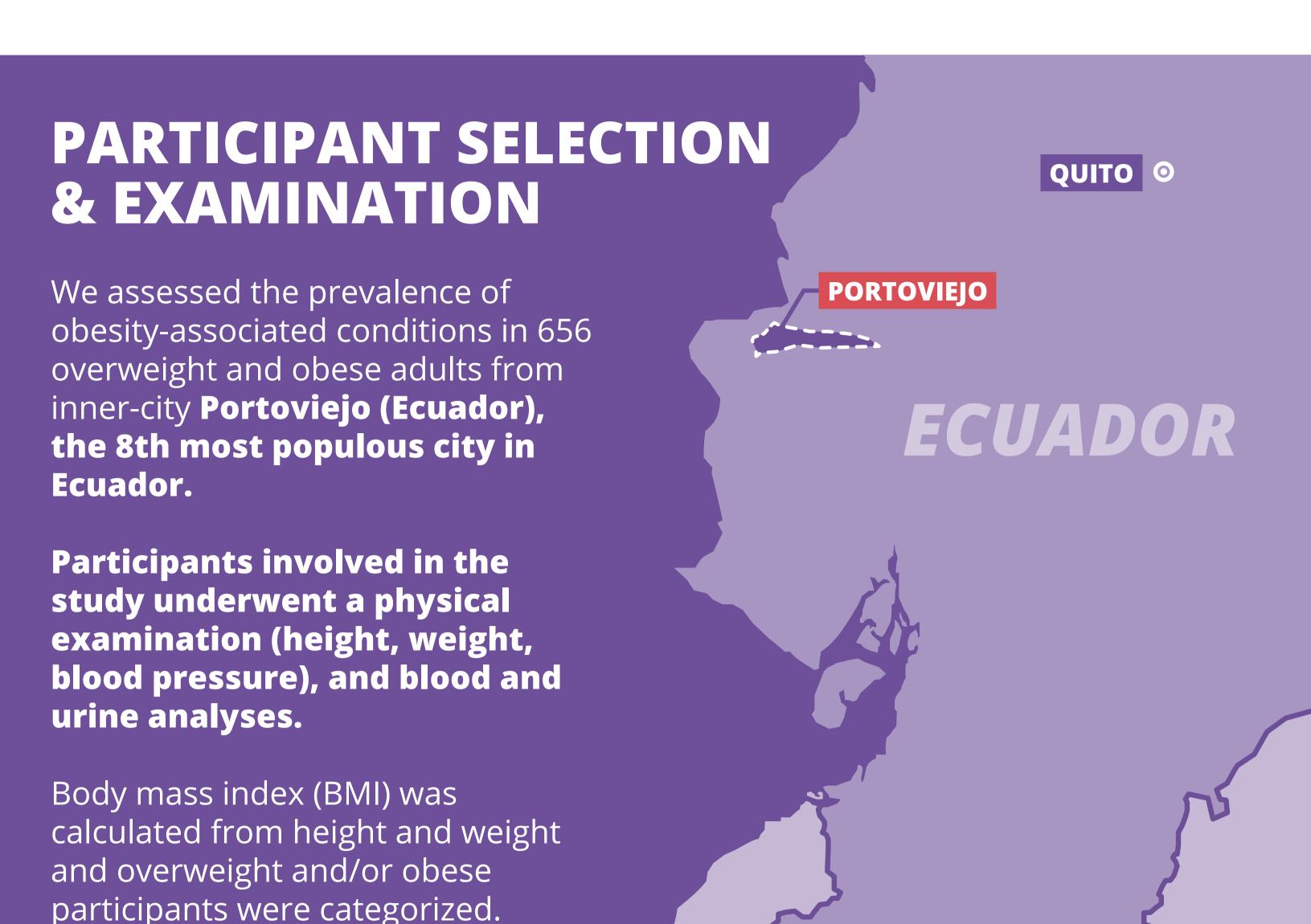
Undiagnosed cardiovascular risk factors in overweight and obese individuals: a low income country experience



## **BACKGROUND**

Being overweight and obese are associated with diabetes, hypertension and chronic kidney disease (CKD) and can increase the chances of premature death due to heart and vascular disease.

However, there is little information from lower-income countries about undiagnosed obesity-associated conditions. In Ecuador, 6 out of 10 adults are overweight or obese. Early identification and adequate management of risk factors such as diabetes, hypertension and CKD may decrease the burden of disease and healthcare costs and increase life-expectancy.

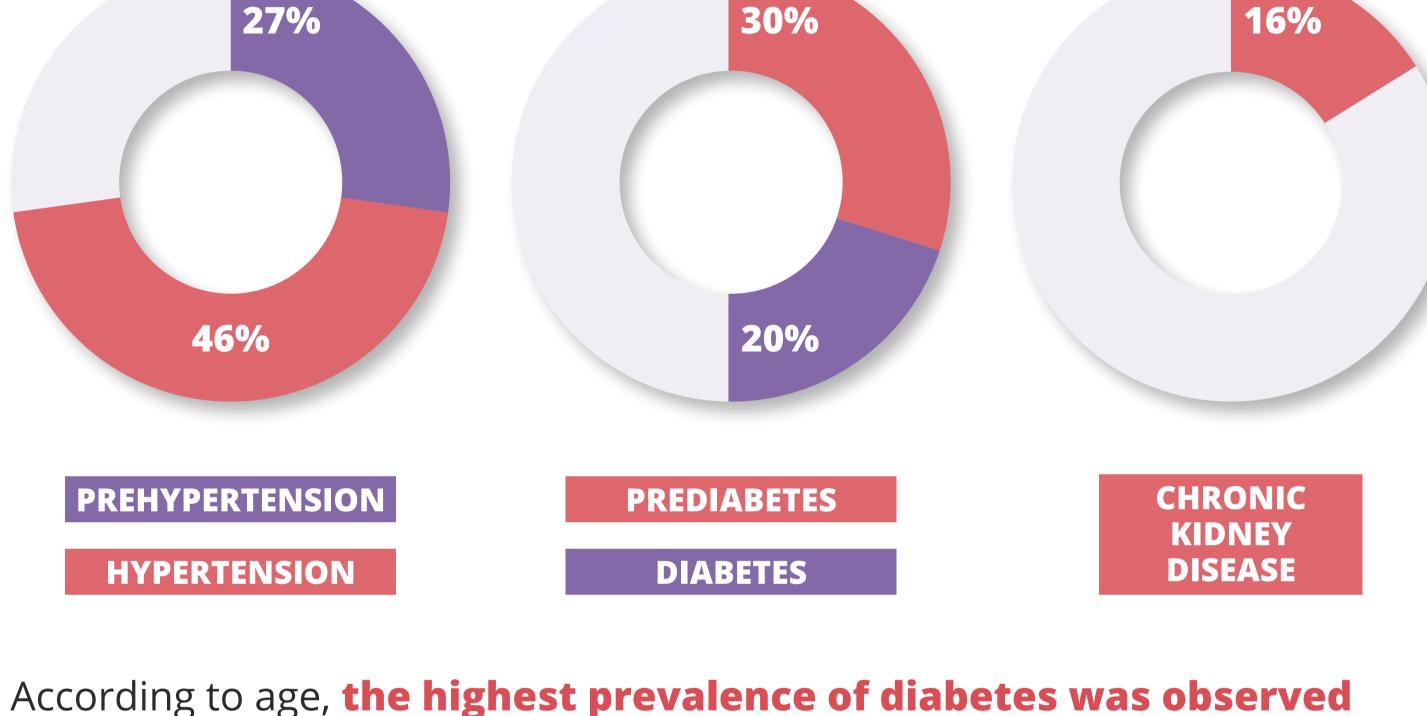


## RESULTS

obese participants:

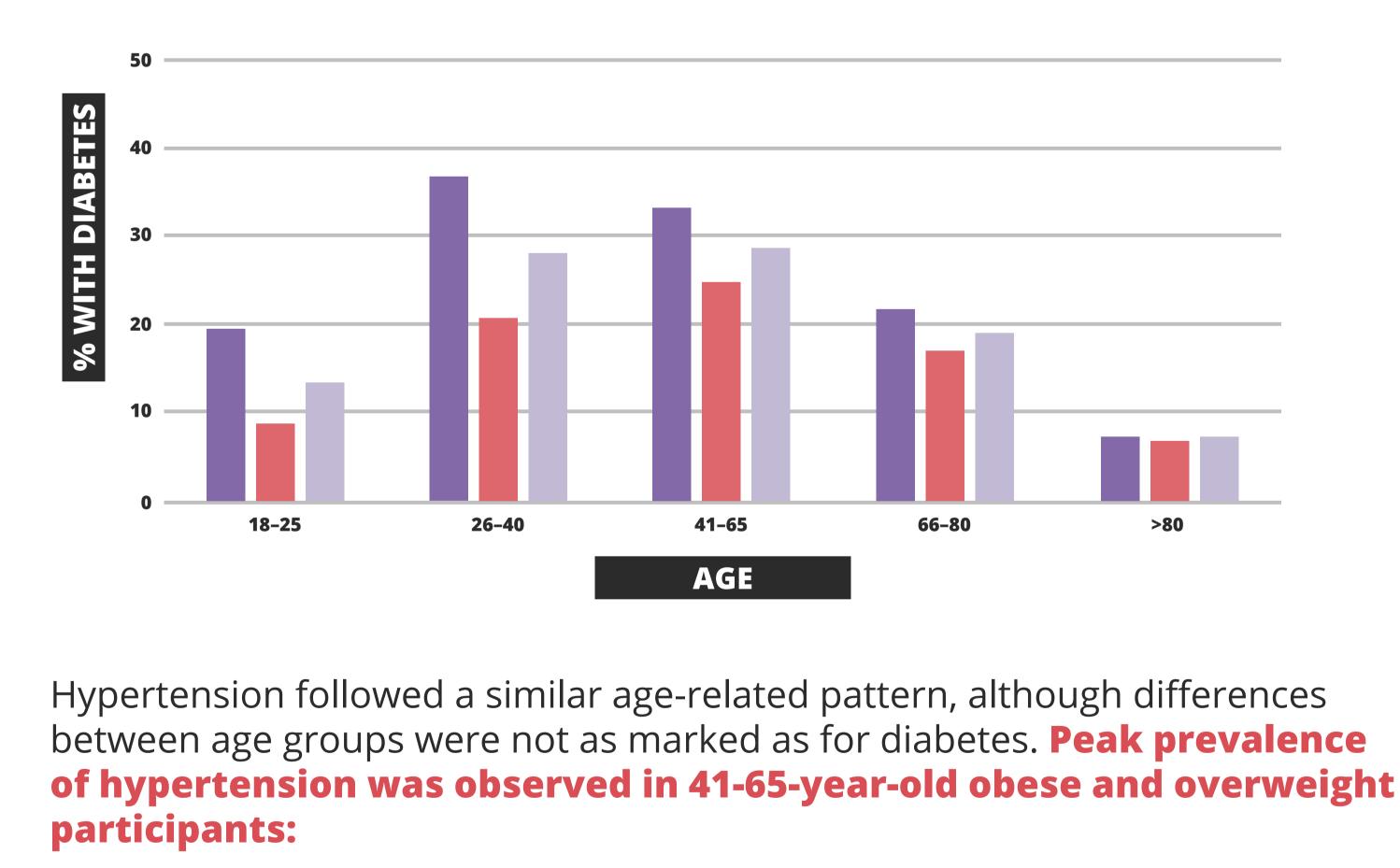
Out of 656 participants, 316 were men and 340 were women. The majority of participants were 41-65 years of age, with 54.9% of participants being overweight and 45.12% obese. The highest diabetes prevalence was observed in obese men. Kidney injury (pathological albuminuria) was more frequent among obese individuals across all age categories, while the frequency of low-kidney function increased with age, peaking at 40% of those above age 80 years.

Risk factors identified in 656 participants:

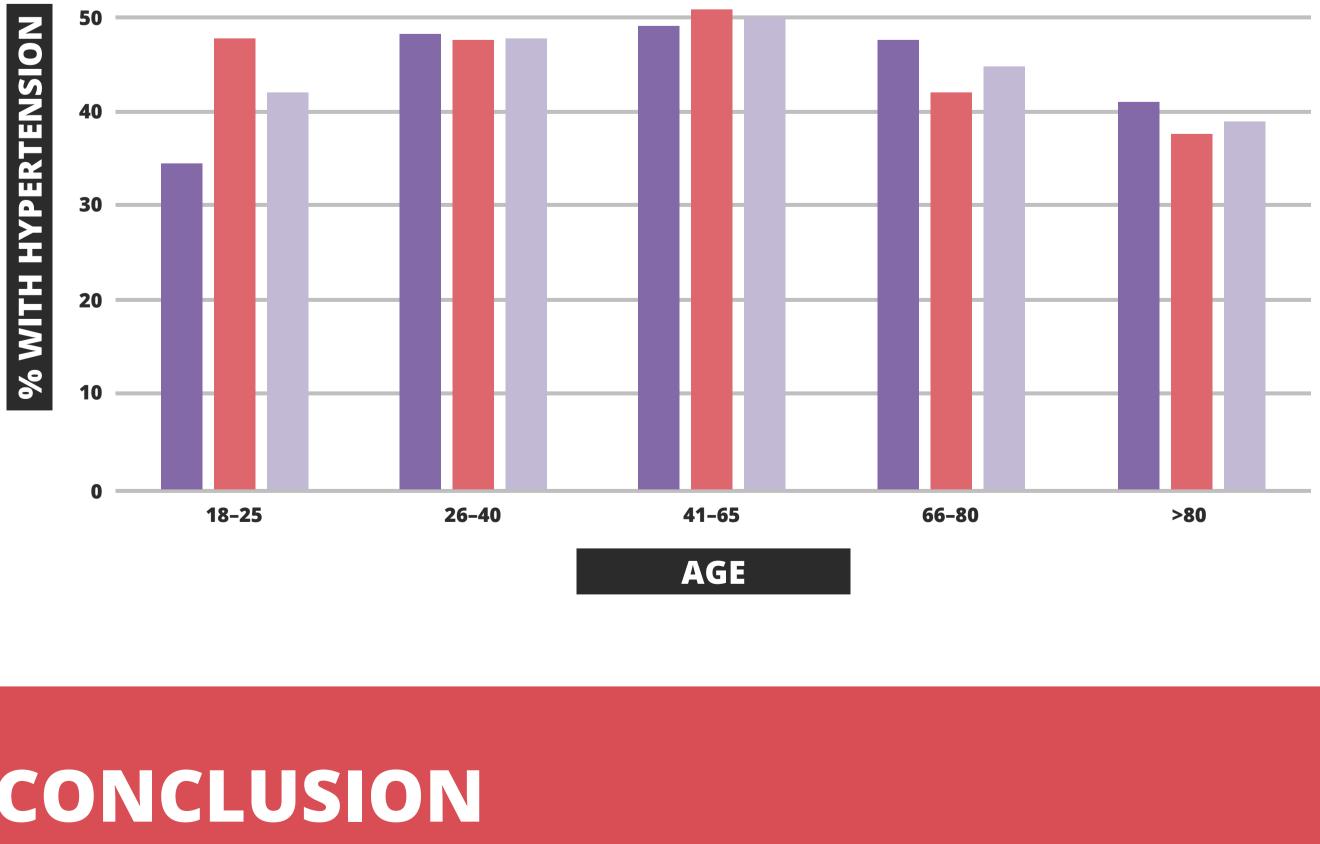


**OVERWEIGHT OBESE 60** 

in 26-40-year-old obese participants, closely followed by 41-65-year-old



**OVERWEIGHT OBESE 60 50** 



CONCLUSION Undiagnosed prehypertension, hypertension, prediabetes, diabetes and pathological albuminuria (associated with chronic kidney disease) were

likely more common than previously suspected, given the official figures for obesity, diabetes and hypertension. Using our data as a basis for the entire population of Ecuador, there are likely over 1 million diabetics and over 2.5 million hypertensive persons. While higher than official estimates, these numbers are aligned with global diabetes prevalence estimates, and screening for diabetes,

effective and allow for early, unexpensive interventions.

hypertension and associated complications, such as CKD, may be cost

highly prevalent in overweight and obese persons from Ecuador,

