

S1 Table.
Definition of exposure variables based on the study year.

Exposure variables	Studies	Study questionnaire	Assessment	Missing value N (%)	Observations
Demographic and socioeconomic variables					
Age	PREFREC 2010 ENSPA 2019	<i>How old are you now?</i> Fill the blank. <i>Age?</i> Fill the blank.	Continuous and categorical variable ("<50 years" or "≥50 years")	- -	-
Sex	PREFREC 2010 ENSPA 2019	<i>Sex?</i> Options: "men" or "women". <i>Sex of interviewee.</i> Options: "men" or "women".	Dichotomic variable "men" or "women"	- -	Based on the phenotypic characteristic.
Ethnicity	PREFREC 2010 ENSPA 2019	<i>To which socio-cultural milieu do you belong?</i> Options: "Afro-Panamanian", "Mestizo", "Asian", "Indigenous", "Caucasian", or "others"	Categorical variable "Afro-Panamanian", "Caucasian", "Mestizo", "Indigenous", or "others (including Asians)".	- -	Asians were grouped with "others" due to small numbers.
Region	PREFREC 2010 ENSPA 2019	Based on INEC definitions [1] using the last Panamanian Census 2010. Options: "urban", "rural", or "indigenous".	Dichotomic variable "urban" "non-urban"	- -	Indigenous and rural regions were grouped into "non-urban" due to small numbers.
Education	PREFREC 2010 ENSPA 2019	<i>How many years of education?</i> Options: "never attended", "primary education (one to six years)", "secondary education (seven to twelve years)", "technical (thirteen years)", "university (fourteen to eighteen years)", or "post-graduate (nineteen years)". <i>What is the highest level of education you've achieved?</i> Options: "no formal education", "special education", "incomplete primary education", "complete primary education", "incomplete secondary education", "complete secondary education", "technical", "non-university higher education", "completed university", "incomplete university", "post-graduate", or "other".	Categorical variable "no/primary education" "secondary education" "higher education"	men: 3611 (1.4) women: 5064 (1.0) men: 7975 (1.2) women: 6001 (0.9) ("others" was set to missing)	Special education (ENSPA) was grouped with "no/primary education" and technical education was grouped with "secondary education". University and post-graduate were grouped into "higher education".
Monthly Family Income	PREFREC 2010 ENSPA 2019	<i>What is the monthly family income?</i> Options: "<250 PAB", "250–300 PAB", "301–600 PAB", "601–999 PAB", "1000–1200 PAB", ">1200 PAB", or "Don't know". <i>Could you give me an estimate of the monthly family income?</i> Options: "Doesn't have", "1–74 PAB", "75–99 PAB", "100–124 PAB", "125–149 PAB", "150–174 PAB", "175–199 PAB", "200–249 PAB", "250–299 PAB", "300–399 PAB", "400–499 PAB", "500–599 PAB", "600–699 PAB", "700–799 PAB", "800–899 PAB", "900–999 PAB", "1000–1499 PAB", "1500–1999 PAB", ">2000 PAB", or "Don't know".	Categorical variable "less than 250 PAB" "250–999 PAB" "≥ 1000 PAB".	men: 4291 (1.7) women: 32268 (6.1) ("don't know" was set to missing) men: 30969 (4.6) women: 34992 (5.2) ("don't know" was set to missing)	Although the PAB is the official currency of Panama, the United States dollar (USD) is also a <i>de facto</i> currency. The exchange rate between PAB and USD is set at parity, according to Panamanian law 84/1904. [2]
Established risk factors for hypertension					
	PREFREC 2010	<i>Have you ever smoked a tobacco product in your life?</i> Options: "yes", or "no".	Categorical variable	men: 921 (0.4)	We did not consider assessing both the consumption of electronic nicotine

Tobacco consumption	ENSPA 2019	<p><i>Have you used cigarettes or other smoked tobacco products in the previous 30 days?</i> Options: "yes" or "no".</p> <p><i>At any time in your life, how often do you use smoked tobacco?</i> Options: "daily", "not daily", or "never".</p> <p><i>How often did you use smoked tobacco in the previous 30 days?</i> Options: "daily", "not daily", or "never".</p>	<p>"current smoker" (Smoked 30 days before answering the survey)</p> <p>"ex-smoker" (Smoked more than 30 days prior to replying to the survey)</p> <p>"non-smokers"</p>	<p>women: 480 (0.1)</p> <p>men: 1 (0.0)</p> <p>women: 156 (0.0)</p>	<p>delivery systems and non-smoke tobacco products because they were not asked in the PREFREC survey. Furthermore, results from the Global Adult Tobacco Survey in 2013 showed that the prevalence of non-smoked tobacco products consumption in Panama was 0.8%. [3]</p>
Physical inactivity	PREFREC 2010	Indicator: used the amount of time in minutes per week participants reported doing certain physical activities.	Dichotomic variable "physical inactivity" (less than 150 minutes of certain physical activity per week or less than 600 MET-minutes per week)	-	Physical inactivity was defined as not meeting current WHO recommendations on physical activity for health. [4]
	ENSPA 2019	Indicator: used the Global Physical Activity Questionnaire [4] to classify individuals based on their METs.		men: 135212 (20.3) women: 124222 (18.3)	
Body Mass Index	PREFREC 2010	Weight: Two measurements were taken using a calibrated instrument. If the 1 st and 2 nd measurement had a difference of >0.5 kg, a third measurement was performed. Height: Two measurements were taken. If the 1 st and 2 nd measurement had a difference of >0.5 cm, a third measurement was performed. The average of the measurements was considered the participant's weight and height.	Categorical variable "underweight" (<18.5 kg/m ²) "normal weight" (18.5 to 24.9 kg/m ²) "overweight" (25 to 29.9 kg/m ²) "obesity" (≥30 kg/m ²)	Men: 1940 (0.8) Women: 10251 (1.9)	Calculated by dividing the participant's weight in kilograms by the square of their height in meters squared.
	ENSPA 2010			Men: 87786 (13.2) Women: 76261 (11.3)	Classification was based on WHO criteria. [5]
Family history of hypertension	PREFREC 2010	<i>Have any of your family members (parents, grandparents, aunts, uncles, siblings) been diagnosed with hypertension?</i> Options: "yes", "no", or "don't know". <i>Have any of your family members (parents, grandparents, aunts, uncles, siblings) been diagnosed with hypertension?</i>	Dichotomic variable "yes" or "no"	Men: 16480 (6.5) Women: 16919 (3.2) ("Don't know" was set to missing)	-
	ENSPA 2019	Options: "yes" or "no".		-	
Self-reported medical history of diabetes	PREFREC 2010	<i>Have you been told by a physician that you have diabetes?</i> Options: "yes" or "no".	Dichotomic variable "yes" or "no"	-	-
	ENSPA 2019	<i>Has a physician diagnosed you with type 1 diabetes? or has a physician diagnosed you with type 2 diabetes?</i> Options: "yes" or "no".		-	
BP assessment in the year before study enrollment	PREFREC 2010	<i>When was the last time a health professional checked your blood pressure?</i> Options: "in the previous year", "1-5 years", "more than 5 years", or "never".	Dichotomic variable "yes" or "no"	-	-
	ENSPA 2019	<i>Have you had your blood pressure checked in the previous year?</i> Options: "yes" or "no". Additional question: <i>How many health check-ups do you have each year?</i> Options: "none", "1-2", or ">3".		-	

N=weighted study population. INEC= Spanish language for "National Institute of Statistics and Census". PAB=Panamanian Balboa. METs= Metabolic Equivalents.

Reference:

1. National Institute of Statistics and Census. Glossary of terms [cited 28 June 2021]. Available from: https://www.inec.gob.pa/glosario/Default.aspx?ORDEN=L&ID_IDIOMA=1
2. Torres JE. Population, economy, and society in Panama: a contribution to the critique of Panamanian historiography. Editorial Universitaria "Carlos Manuel Gasteazoro"; 1999; p. 307.
3. Global Adult Tobacco Survey. Panama 2013. Fact sheet [cited 9 July 2021]. Available from: https://www.who.int/tobacco/surveillance/survey/gats/pan_factsheet2013.pdf
4. World Health Organization. Global Physical Activity Surveillance [cited 9 July 2021]. Available from: https://www.who.int/ncds/surveillance/steps/GPAQ_EN.pdf
5. Harvard T.H. Chan website. Obesity Prevention Source: Why Use BMI? [cited 27 July 2021]. Available from: <https://www.hsph.harvard.edu/obesity-prevention-source/obesity-definition/obesity-definition-full-story/>