

Additional File 2. Summary of variables

VARIABLES	CATEGORIES
Age	50-60 61-71
Sex	Man Woman
Smoking	Smoker: if affirmative information was registered in the medical records during the last four years Non-smoker
Diabetes mellitus	Diabetic: Code 250 (CIE-10) before invitation Non-diabetic <i>Among diabetics, it was considered controlled if they had HbA1c\leq7.6% in the last measure over eight months before invitation.</i>
Arterial hypertension	Hypertensive: Code 401-404 (CIE-10) before invitation Non-hypertensive. <i>Among hypertensives, it was considered controlled if they had SBP\leq140mmHg or DBP\leq90mmHg in the last three measurements over the last two years</i>
Obesity	Obese: BMI \geq 30 in the last two years Non-obese. <i>Among the obese, it was considered controlled if they had two or more BMI measurements over the last two years</i>

Use of the health services (visits to the GP and/or nurse)	≤ 6 7-15 16-28 ≥ 29
Influenza vaccines (only for people ≥ 65 years old during the last two years)	Vaccinated Non-vaccinated
Comorbidity index ¹⁶	Very low Low Moderate Severe
Deprivation index ¹⁵	Very low Low Moderate High Very high
Type of participant	Regular participant: participation in the last invitation and in the previous one or more Non-participant: never participated Irregular participant: participation in the last invitation, although not in the previous one or the other way round.

Initial participant (PIN): participation in first invitation in the studied period

Successive participant (PIS): initial participation in second or subsequent invitations