Supplemental table 1 – Selection criteria of patients at risk of herpes zoster in the accrual period (2013), by risk factor

Administrative data flow	Description
	Cardiovascular diseases
Hospital admissions	At least one hospital admission with main and/or secondary diagnosis (ICD-IX-CM code): • 425.x Cardiomyopathy • 427.x Cardiac dysrhythmias • 428.x Heart failure • 402.01 Malignant hypertensive heart disease with heart failure • 402.11 Hypertensive heart disease with heart failure • 402.91 Unspecified hypertensive heart disease with heart failure • 404.01 Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified • 404.11 Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified • 404.91 Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified • 405.x Secondary hypertension • 518.4 Acute oedema of lung, unspecified
	AND/OR
Exemption	Exemption codes for circulation problems: 002.394 Mitral valve disease 002.395 Aortic valve disease 002.396 Mitral and aortic valve disease 002.397 Other endocardial structure diseases 002.414 Other forms of chronic ischaemic cardiomyopathy 002.416 Chronic cardiopulmonary disease 002.417 Other pulmonary circulation diseases 002.424 Other diseases of the endocardium 002.426 Conduction disorders 002.427 Cardiac dysrhythmias 002.429.4 Functional disorders following heart surgery 002.745 Bulbus cordis and cardiac septum abnormalities 002.746 Other heart malformations V42.2 Heart valve replaced by transplant V43.3 Heart valve replaced by other means V45.0 Cardiac device in situ Exemption codes for arterial hypertension with organ damage: 031.402 Hypertensive heart disease 031.403 Hypertensive nephropathy 031.404 Hypertensive cardio-nephropathy 031.405.0 Malignant secondary hypertension 023 Chronic renal insufficiency 050 Subjects awaiting a transplant (kidney, heart, lung, liver, pancreas, cornea, bone marrow)

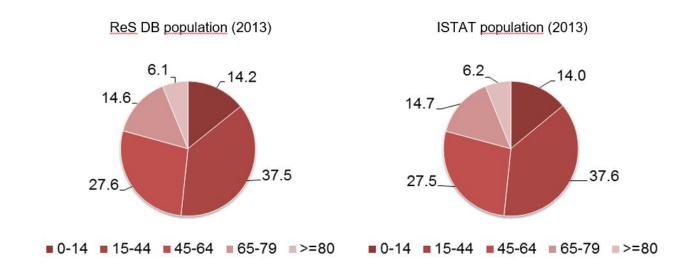
Administrative data flow	Description	
Chronic obstructive pulmonary disease (COPD)		
Exclusion of		
Exemption	007 - Asthma	
Hospital admissions	493 - Asthma	
Inclusion of		
Pharmaceutical	Prescription of <u>at least 2</u> packs of: R03 - Drugs for obstructive airway diseases (excluding R03DC and R03BC) for a period of at least 3 months (distance between the most recent and previous dates ≥ 90 days)	
	AND/OR	
Hospital admissions	At least one hospital admission with main diagnosis of COPD: • 490 - Bronchitis, not specified as acute or chronic • 491.x - Chronic bronchitis • 492.x - Emphysema • 494.x - Bronchiectasis • 496 - Chronic airway obstruction, not elsewhere classified At least one hospital admission with main diagnosis for COPD-related causes an secondary diagnosis of COPD: • 518.81- 518.84 - Respiratory insufficiency • 786.0x - Dyspnoea and respiratory abnormalities • 786.2 - Cough • 786.4 - Abnormal sputum	
Administrative data flow	Description	
Diabetes		
Exemption	013. 250 - Diabetes Mellitus	
	AND/OR	
Pharmaceutical	Prescription of <u>at least one</u> oral antidiabetic <u>either alone or in combination</u> with insulin: • A10A - Insulin and analogues • A10B - Oral blood glucose-lowering drugs (excluding insulin)	
	AND/OR	
Hospital admissions	At least one hospital admission with main and/or secondary diagnosis of: 250.x - Diabetes mellitus	

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Administrative data flow	Description	
Immunosuppression		
Pharmaceutical	Prescription of <u>at least one</u> of: • L04A - Immunosuppressant • L03AB - Interferons • L03AX13 - Glatiramer acetate • N07XX09 – Dimethylfumarate Cancer drugs were not considered.	
	AND/OR	
Hospital admissions	At least one hospital admission with main/secondary diagnosis of: 279.x - Disorders involving the immune mechanism	

Supplemental Table 1 shows the selection criteria for patients aged ≥50 years with risk factors for herpes zoster, according to the Italian National Vaccine Prevention Plan 2017-2019, in the accrual period (2013), by the administrative database analysed and the disease/condition.

Supplemental Figure 1 – Percentage distribution of the 2013 Italian population by age group, from the ReS database and from Italian Institute of Statistics (ISTAT).



Supplemental Figure 1 depicts the percentage distribution by age group of the 2013 Italian population, from the ReS database and the Italian Institute of Statistics.