SUPPLEMENTARY TABLES

Supplementary Table 1. Definition of the comorbidities registered.

Comorbidities	Definition						
AHT	Diagnosis of arterial hypertension in actual treatment with antihypertensive drugs.						
Diabetes	Diagnosis of diabetes, treated with diet, oral drugs or insulin administration.						
Pulmonary disease	Any disease affecting respiratory system functionality and treated with any of the related drugs. Patients suffering from asthma, Chronic obstructive pulmonary disease (COPD), Pulmonary fibrosis, Obstructive sleep apnea syndrome (OSAS) and interstitial lung disease were specifically registered.						
CV disease	Diagnosis of cardiovascular disease						
Chronic kidney disease	Chronic kidney disease diagnosis, in any of the stages.						
Active cancer or treatment	Patients in a cancer process or in treatment for a previous cancer, along the period studied (1 st to the 29 th of March)						
Tissue or organ transplantation	Any transplantation throughout the patient's life, in actual treatment.						

Supplementary Table 2. List of types of treatments registered and drugs belonging to each type.

Type of treatment	Drugs included					
Analgesics	NSAIDs					
	Opioids					
	Pregabalin					
	Gabapentin					
	Other analgesics					
Antidepressants	Dual Acting	Duloxetine				
		Venlafaxine				
		Others				
	Tricyclic	Amitriptyline				
		Other				
	Selective serotonin reuptake inhibitors (SSRIs)					
	Reboxetine					
	Other antidepressants					
Antiresorptive Agents	Bisphosphonates	Oral				
		Intravenous				
	Denosumab					
	Selective estrogen receptor modulator (SERM)					
Anabolic Agents	Teriparatide					
Supplements for osteoporosis	Calcium					
	Vitamin D (in any of its forms or metabolits)					
	Thiazides diuretics					
Corticoids	Any type of oral corticoid (all converted to prednisone dose)					
	Any type of inhaled corticoids					
Antihypertensive drugs	Angiotensin-converting enzyme (Enalapril, Ramipril, Lisinopril,)					
	Angiotensin II Receptor Blockers (Losartan, Valsartan, Candesartan)					

Supplementary Table 3. Relative risk (RR) and 95% confidence interval (95% CI) of hsCOVID-19 after propensity score matching.

Sample size	Denosumab			Intravenous Zoledronate			Calcium		
		control	treated		control	treated		control	treated
	N All	1838	264	N All	1923	179	N All	1612	490
	N matched	264	264	N matched	179	179	N matched	490	490
	N unmatched	1574	0	N unmatched	1744	0	N unmatched	1122	0
COVID-19 (matched	Yes	11	8	Yes	11	6	Yes	22	16
data)	No	253	256	No	168	173	No	468	474
Crude RR (95%CI)	0.73 (0.30-1.78)			0.55 (0.20-1.44)			0.72 (0.39-1.37)		
Adjusted RR (95%CI)*	0.87 (0.30-2.52)			0.43 (0.14-1.35)			0.67 (0.36-1.27)		
Summary of balance	Means	Means	Mean Diff	Means	Means	Mean Diff	Means	Means	Mean
for matched data	Treated	Control		Treated	Control		Treated	Control	Diff
Osteoporosis	0.97	0.97	0.00	0.92	0.92	0.00	0.77	0.77	0.00
Women	0.86	0.86	-0.01	0.77	0.80	-0.03	0.85	0.88	-0.02
Age	74.05	73.29	0.76	71.61	71.69	-0.08	71.34	71.57	-0.22
CV disease	0.17	0.13	0.04	0.18	0.17	0.02	0.17	0.16	0.01
Diabetes	0.12	0.10	0.02	0.18	0.17	0.01	0.10	0.12	-0.02
Pulmonary disease	0.20	0.21	-0.01	0.19	0.17	0.02	0.16	0.14	0.01
Renal disease	0.11	0.09	0.01	0.08	0.04	0.03	0.07	0.06	0.01
Cancer	0.09	0.08	0.02	0.15	0.15	0.01	0.08	0.08	0.00

CV= cardiovascular.

^{*}RR for denosumab is adjusted by the exposure to calcium, bisphosphonates, vitamin D, thiazide, analgesics, dual antidepressants, tricyclic antidepressants, SSRI antidepressants (selective serotonin reuptake inhibitors), glucocorticoids, anti-hypertensive drugs and NSAIDs. RR for intravenous zoledronate is adjusted by the exposure to denosumab, oral bisphosphonates, calcium, vitamin D, thiazide, analgesics, dual antidepressants, tricyclic antidepressants, SSRI antidepressants, glucocorticoids, anti-hypertensive drugs and NSAIDs. RR for calcium is adjusted by the exposure to denosumab, bisphosphonates, vitamin D, thiazide, analgesics, dual antidepressants, tricyclic antidepressants, SSRI antidepressants, glucocorticoids, anti-hypertensive drugs and NSAIDs.