



**TITLE: ANALYSIS OF IMMINENT FRACTURE RISK IN THE SPANISH POPULATION: A RETROSPECTIVE OBSERVATIONAL COHORT STUDY.**

SUPPLEMENTARY

Supplementary Table S1. Fracture codes according to ICD-9..	2
Supplementary Table S2. Incidence rate of subsequent fracture events by type of index fracture and follow-up period (years).	3
Supplementary Table S3. Relative Risk of subsequent fracture events by age, sex and index fracture site.	4



**Table S1.** Fracture codes according to ICD-9.

<b>Fracture</b>	<b>ICD-9 code</b>
Hip fracture	820.0, 820.2, 733.14
Spine fracture	805.0, 805.2, 805.4, 805.8, 806.0, 806.2, 806.4, 806.8, 733.13
Pelvic fracture:	808.0, 808.2, 808.4, 808.8
Femur (thigh) fracture	821.0, 821.2, 733.15
Humerus (arm) fracture:	812.0, 812.2, 812.4, 733.1
Wrist fracture	813.4, 733.12

*ICD-9* 9th revision of the International Statistical Classification of Diseases and Related Health Problems

**Table S2.** Incidence rate of subsequent fracture events by type of index fracture and follow-up period (years).

	N (at risk)	person-years	SsFxs	IR x 10000 PY	95% CI
<b>Hip</b>					
All follow-up	431	909.6	37	406.8	(294.7 - 561.4)
≤1 year since 1st Fx	431	390.6	16	409.7	(251.0 - 668.7)
1-2years since 1st Fx	368	354.3	12	338.7	(192.4 - 596.5)
>2years since 1st Fx	340	164.8	9	546.0	(284.1 - 1049.4)
<b>Pelvis</b>					
All follow-up	74	164.4	7	425.8	(203.0 - 893.1)
≤1 year since 1st Fx	74	70.6	3	424.7	(137.0 - 1316.8)
1-2years since 1st Fx	67	64.6	3	464.1	(149.7 - 1439.0)
>2years since 1st Fx	62	29.1	1	343.2	(48.4 - 2436.5)
<b>Vertebral</b>					
All follow-up	94	219.5	8	364.5	(182.3 - 728.9)
≤1 year since 1st Fx	94	92.1	0	0.0	.
1-2years since 1st Fx	92	87.1	6	688.6	(309.4 - 1532.8)
>2years since 1st Fx	84	40.3	2	496.7	(124.2 - 1986.2)
<b>Proximal humerus</b>					
All follow-up	264	620.9	19	306.0	(195.2 - 479.8)
≤1 year since 1st Fx	264	257.4	5	194.3	(80.9 - 466.8)
1-2years since 1st Fx	253	246.6	11	446.1	(247.1 - 805.6)
>2years since 1st Fx	236	116.9	3	256.5	(82.7 - 795.4)
<b>Wrist</b>					
All follow-up	506	1196.7	28	234.0	(161.6 - 338.9)
≤1 year since 1st Fx	506	494.6	15	303.3	(182.8 - 503.0)
1-2years since 1st Fx	483	471.7	10	212.0	(114.1 - 394.1)
>2years since 1st Fx	461	230.4	3	130.2	(42.0 - 403.6)

Fx: index fracture. SsFx: subsequent fracture event. IR: incidence rate. PY: person year. CI: confidence interval.



**Table S3.** Relative Risk of subsequent fracture events among those with previous fracture compared with the general population by age, sex and index fracture site.

	<b>RR (95%CI)*</b>	<b>p-value</b>
All individuals	1.80 (1.46-2.21)	<0.01
Male	2.49 (1.39-4.45)	<0.01
Female	1.73 (1.39-2.16)	<0.01
50-59years	2.67 (1.19-6.02)	0.02
60-69years	1.56 (0.69-3.50)	0.29
70-79years	2.56 (1.70-3.84)	<0.01
80+years	1.58 (1.21-2.05)	<0.01
Hip	1.62 (1.15-2.27)	<0.01
Pelvis	3.34 (1.83-6.08)	<0.01
Vertebral	2.64 (1.36-5.14)	<0.01
Prox. humerus	1.26 (0.68-2.31)	0.47
Wrist	1.83 (1.25-2.70)	<0.01

\*Adjusted RateRatio estimated using Poisson regression models that include age and sex as covariates