

Supplemental Table 2. IR and IRRs, stratified by sex and age groups for the different non-vertebral fracture outcomes.

	AS			Matched controls			IRR, adjusted
	Event	PYs	IR	Event	PYs	IR	
Non-vertebral fracture	974	76 270	12.8 (12.0–13.6)	4106	386 499	10.6 (10.3–11.0)	1.2 (1.1–1.3)
Men	603	50 668	11.9 (11.0–12.9)	2572	256 076	10.0 (9.7–10.4)	1.2 (1.1–1.3) *
- 18 to 29 years	31	3052	10.2 (7.1–14.4)	161	15 020	10.7 (9.3–12.4)	1.0 (0.6–1.4)
- 30 to 39 years	58	7747	7.5 (5.8–9.7)	316	38 340	8.2 (7.4–9.2)	0.9 (0.7–1.2)
- 40 to 49 years	106	11 187	9.5 (7.8–11.5)	521	55 742	9.3 (8.6–10.2)	1.0 (0.8–1.3)
- 50 to 59 years	140	11 811	11.9 (10.1–14.0)	548	59 210	9.3 (8.5–10.1)	1.3 (1.1–1.5)
- 60 to 69 years	150	11 167	13.4 (11.5–15.8)	550	57 584	9.6 (8.8–10.4)	1.3 (1.1–1.6)
- 70 to 79 years	73	4772	15.3 (12.2–19.2)	314	24 863	12.6 (11.3–14.1)	1.1 (0.9–1.5)
- 80+	45	931	48.3 (36.1–64.6)	162	5317	30.5 (26.1–35.6)	1.6 (1.1–2.2)
Women	371	25 602	14.5 (13.1–16.1)	1534	130 423	11.8 (11.1–12.4)	1.2 (1.1–1.4)
- 18 to 29 years	15	1716	8.7 (5.3–14.5)	45	8586	5.2 (3.9–7.0)	1.6 (0.9–2.9)
- 30 to 39 years	26	4175	6.2 (4.2–9.1)	78	20 882	3.7 (3.0–4.7)	1.7 (1.1–2.6)
- 40 to 49 years	46	6481	7.1 (5.3–9.5)	218	32 556	6.7 (5.9–7.7)	1.1 (0.8–1.4)
- 50 to 59 years	102	6090	16.7 (13.8–20.3)	398	30 922	12.9 (11.7–14.2)	1.3 (1.0–1.6)
- 60 to 69 years	101	4858	20.8 (17.1–25.3)	475	25 129	18.9 (17.3–20.7)	1.1 (0.9–1.3)
- 70 to 79 years	60	1895	31.7 (24.5–40.9)	208	9838	21.1 (18.3–24.5)	1.5 (1.1–2.0)
- 80+	21	386	54.5 (34.9–85.1)	112	2510	44.6 (37.4–53.3)	1.2 (0.7–1.9)
Fracture of humerus, forearm or hip	376	78 828	4.8 (4.3–5.3)	1444	397 455	3.6 (3.4–3.8)	1.3 (1.2–1.4) #
Men	210	52 316	4.0 (3.5–4.6)	703	263 908	2.7 (2.5–2.9)	1.5 (1.3–1.7)
- 18 to 29 years	8	3098	2.6 (1.3–5.2)	19	15 415	1.2 (0.8–1.9)	-
- 30 to 39 years	10	7907	1.3 (0.7–2.4)	48	39 320	1.2 (0.9–1.6)	1.0 (0.5–2.1)
- 40 to 49 years	22	11 542	1.9 (1.3–2.9)	98	57 479	1.7 (1.4–2.1)	1.1 (0.7–1.8)
- 50 to 59 years	44	12 233	3.6 (2.7–4.8)	142	61 119	2.3 (2.0–2.7)	1.5 (1.1–2.1)
- 60 to 69 years	63	11 627	5.4 (4.2–6.9)	165	59 348	2.8 (2.4–3.2)	1.9 (1.4–2.5)
- 70 to 79 years	36	4909	7.3 (5.3–10.1)	135	25 677	5.3 (4.5–6.2)	1.3 (0.9–1.9)
- 80+	27	1000	27.0 (18.5–39.5)	96	5549	17.3 (14.1–21.3)	1.5 (0.98–2.4)
Women	166	26 512	6.3 (5.4–7.3)	741	133 547	5.5 (5.1–6.0)	1.1 (0.9–1.3)
- 18 to 29 years	0	1750	0.0	9	8688	1.0 (0.5–2.0)	-
- 30 to 39 years	4	4247	0.9 (0.4–2.5)	20	21 097	0.9 (0.6–1.5)	-
- 40 to 49 years	16	6622	2.4 (1.5–3.9)	54	33 048	1.6 (1.2–2.1)	1.5 (0.8–2.6)
- 50 to 59 years	41	6340	6.5 (4.8–8.8)	193	31 765	6.1 (5.3–7.0)	1.1 (0.8–1.5)
- 60 to 69 years	60	5121	11.7 (9.1–15.1)	255	26 058	9.8 (8.6–11.1)	1.2 (0.9–1.6)
- 70 to 79 years	27	2024	13.3 (9.1–19.5)	130	10 237	12.7 (10.7–15.0)	1.0 (0.7–1.6)
- 80+	18	409	44.0 (27.4–70.7)	80	2654	30.1 (24.5–37.1)	1.4 (0.8–2.5)
Proximal humerus fracture	94	79 857	1.2 (1.0–1.4)	373	401 627	0.9 (0.8–1.0)	1.2 (0.99–1.6)
Men	50	52 871	0.9 (0.7–1.2)	182	265 825	0.7 (0.6–0.8)	1.4 (0.99–1.9)
- 18 to 29 years	2	3116	0.6 (0.2–2.6)	1	15 459	0.1 (0.0–0.5)	-
- 30 to 39 years	2	7940	0.3 (0.1–1.0)	5	39 489	0.1 (0.1–0.3)	-
- 40 to 49 years	4	11 590	0.3 (0.1–0.9)	27	57 766	0.5 (0.3–0.7)	-
- 50 to 59 years	10	12 354	0.8 (0.4–1.5)	48	61 473	0.8 (0.6–1.0)	1.0 (0.5–2.0)
- 60 to 69 years	19	11 795	1.6 (1.0–2.5)	47	59 870	0.8 (0.6–1.0)	1.9 (1.1–3.3)
- 70 to 79 years	5	4988	1.0 (0.4–2.4)	36	26 047	1.4 (1.0–1.9)	-
- 80+	8	1087	7.4 (3.7–14.7)	18	5720	3.1 (1.9–5.1)	-
Women	44	26 986	1.6 (1.2–2.2)	191	135 801	1.4 (1.2–1.6)	1.1 (0.8–1.6)
- 18 to 29 years	0	1750	0.0	0	8719	0.0	-
- 30 to 39 years	1	4252	0.2 (0.0–1.7)	3	21 153	0.1 (0.0–0.4)	-
- 40 to 49 years	3	6665	0.5 (0.1–1.4)	10	33 210	0.3 (0.2–0.6)	-

- 50 to 59 years	7	6444	1.1 (0.5–2.3)	43	32 265	1.3 (1.0–1.8)	-
- 60 to 69 years	21	5270	4.0 (2.6–6.1)	72	26 894	2.7 (2.1–3.4)	1.5 (0.9–2.4)
- 70 to 79 years	8	2128	3.8 (1.9–7.6)	40	10 710	3.7 (2.8–5.1)	-
- 80+	4	478	8.4 (3.1–22.3)	23	2851	8.1 (5.4–12.0)	-
Distal forearm fracture	190	79 460	2.4 (2.1–2.8)	777	399 604	1.9 (1.8–2.1)	1.2 (1.0–1.4)
Men	87	52 676	1.7 (1.3–2.0)	320	265 087	1.2 (1.1–1.3)	1.4 (1.1–1.7)
- 18 to 29 years	6	3101	1.9 (0.9–4.3)	18	15 416	1.2 (0.7–1.8)	-
- 30 to 39 years	6	7926	0.8 (0.3–1.7)	39	39 350	1.0 (0.7–1.4)	-
- 40 to 49 years	19	11 553	1.6 (1.0–2.6)	65	57 587	1.1 (0.9–1.4)	1.5 (0.9–2.5)
- 50 to 59 years	21	12 304	1.7 (1.1–2.6)	78	61 312	1.3 (1.0–1.6)	1.3 (0.8–2.1)
- 60 to 69 years	25	11 749	2.1 (1.4–3.1)	67	59 703	1.1 (0.9–1.4)	1.9 (1.2–2.9)
- 70 to 79 years	5	4973	1.0 (0.4–2.4)	38	25 996	1.5 (1.1–2.0)	-
- 80+	5	1071	4.7 (1.9–11.2)	15	5724	2.6 (1.6–4.3)	-
Women	103	26 784	3.8 (3.2–4.7)	457	134 517	3.4 (3.1–3.7)	1.1 (0.9–1.4)
- 18 to 29 years	0	1750	0.0	9	8688	1.0 (0.5–2.0)	-
- 30 to 39 years	3	4248	0.7 (0.2–2.2)	16	21 105	0.8 (0.5–1.2)	-
- 40 to 49 years	13	6639	2.0 (1.1–3.4)	44	33 068	1.3 (1.0–1.8)	1.5 (0.8–2.7)
- 50 to 59 years	33	6362	5.2 (3.7–7.3)	140	31 923	4.4 (3.7–5.2)	1.2 (0.8–1.7)
- 60 to 69 years	33	5226	6.3 (4.5–8.9)	168	26 391	6.4 (5.5–7.4)	1.0 (0.7–1.4)
- 70 to 79 years	12	2103	5.7 (3.2–10.1)	59	10 509	5.6 (4.3–7.3)	1.0 (0.5–1.8)
- 80+	9	456	19.7 (10.2–38.2)	21	2834	7.4 (4.9–11.2)	-
Hip fracture	113	79 848	1.4 (1.2–1.7)	373	401 934	0.9 (0.8–1.0)	1.5 (1.2–1.8) #
Men	85	52 791	1.6 (1.3–2.0)	230	265 859	0.9 (0.8–1.0)	1.8 (1.4–2.3)
- 18 to 29 years	0	3119	0.0	0	15 460	0.0	-
- 30 to 39 years	2	7952	0.3 (0.1–1.0)	4	39 491	0.1 (0.0–0.3)	-
- 40 to 49 years	0	11 603	0.0	6	57 836	0.1 (0.0–0.2)	-
- 50 to 59 years	13	12 357	1.1 (0.6–1.8)	20	61 572	0.3 (0.2–0.5)	3.1 (1.5–6.2)
- 60 to 69 years	22	11 766	1.9 (1.2–2.8)	61	59 885	1.0 (0.8–1.3)	1.7 (1.0–2.8)
- 70 to 79 years	28	4962	5.6 (3.9–8.2)	69	25 968	2.7 (2.1–3.3)	2.0 (1.3–3.1)
- 80+	20	1032	19.4 (12.5–30.2)	70	5646	12.4 (9.6–16.0)	1.5 (0.9–2.5)
Women	28	27 057	1.0 (0.7–1.5)	143	136 074	1.1 (0.9–1.3)	1.0 (0.6–1.4)
- 18 to 29 years	0	1750	0.0	0	8719	0.0	-
- 30 to 39 years	0	4253	0.0	1	21 159	0.0 (0.0–0.3)	-
- 40 to 49 years	1	6673	0.1 (0.0–1.1)	0	33 231	0.0	-
- 50 to 59 years	1	6457	0.2 (0.0–1.1)	13	32 362	0.4 (0.2–0.7)	-
- 60 to 69 years	7	5349	1.3 (0.6–2.7)	36	27 043	1.3 (1.0–1.8)	-
- 70 to 79 years	10	2123	4.7 (2.5–8.7)	42	10 756	3.9 (2.9–5.3)	1.2 (0.6–2.3)
- 80+	9	452	19.9 (10.2–38.8)	51	2804	18.2 (13.7–24.1)	-

IRs are presented as number of fractures per 1000 person-years at risk. IRRs are adjusted for history of any prior fracture*Significant interaction between AS status and age. # Significant interaction between AS status and sex.

AS, ankylosing spondylitis; PYs, person-years; IRs, incidence rates; IRRs, incidence rate ratios