

SUPPLEMENTARY MATERIAL

SM-Table 1: Clinical Characteristics of the Spa and Non-Spa Cohorts

	SpA Cohort	Non-SpA Cohort	
	N admissions (%)	107,140 (100)	107,140(100)
	Male %	66.63	66.63
	Age mean (SD)	58.94 SD (15,58)	58.94 (15.58)
	ALOS mean (SD)	10.59 SD (15.37) ^{§*}	7.89 (11.5)
	Deceased (%)	3,619 (3,37) [*]	4,388 (4.09)
Charlson and its components	Charlson index mean (SD)	1.14 SD (1,81) ^{§*}	1.36 (2.12)
	Severe liver disease (%)	1,479 (1.38) [*]	1,928 (1.79)
	Kidney disease (%)	8,347 (7.79) ^{§*}	5,708 (5.32)
	COPD (%)	1,4467 (13.5) [*]	13,745 (12.82)
	Connective tissue disease (%)	2,561 (2.39) ^{§*}	1,118 (1.04)
	Pressure_ulcer (%)	1,577 (1.47) [*]	1,872 (1.74)
	Dementia (%)	629 (0.58) [*]	845 (0.78)
	Metastases (%)	3,199 (2.98) ^{§*}	5,804 (5.41)
	AIDS (%)	771 (0.71) [*]	872 (0.81)
	DM (%)	14,856 (13.86)	14,677 (13.69)
	Tumor (%)	8,209 (7.66) ^{§*}	13,817 (12.89)
	Leukemia (%)	623 (0.58)	626 (0.58)
Lymphoma (%)	1,257 (1.17) [*]	1,412 (1.31)	
CV Disease	CV disease (%)	55,475 (51.77) [*]	51,062 (47.65)
	Ischemic heart disease (%)	11,718 (10.93) [*]	12,246 (11.42)
	Heart failure (%)	6,216 (5.80) [*]	5,913 (5.51)
	Cerebrovascular disease (%)	4,730 (4.41) [*]	5,822 (5.43)
	Aortic aneurysm (%)	655 (0.61)	710 (0.66)
	Valvular disease (%)	3,545 (3.30) [*]	3,047 (2.84)
	DVT_PE (%)	655 (0.61)	606 (0.56)
Others	HTN (%)	31,580 (29.48) [*]	28,405 (26.51)
	Tobacco use (%)	13,339 (12.45)	13,446 (12.54)
	Hyperlipidemia (%)	17,847 (16.66) [*]	17,236 (16.08)
	Sarcoidosis (%)	133 (0.12) [*]	87 (0.08)
	c_equina (%)	149 (0.13) [*]	45 (0.04)
	Uveitis (%)	554 (0.51) [*]	33 (0.03)
	Depression (%)	5,962 (5.56) [*]	4,168 (3.89)
Infectious Disease	ID (%)	19,151 (17.87) ^{§*}	10323 (9.63)
	Bacterial meningitis ID (%)	133 (0.12) [*]	63 (0.05)
	Heart ID (%)	453 (0.42) [*]	62 (0.05)
	Respiratory ID (%)	6,525 (6.09) [*]	5,646 (5.26)
	Kidney ID (%)	4,680 (4.36) [*]	3,643 (3.4)
	Skin ID (%)	1,726 (1.61) [*]	1,117 (1.04)

Infectious Disease	Pyogenic arthritis (%)	411 (0.38)*	76 (0.07)
	Osteomyelitis (%)	446 (0.41)*	119 (0.11)
	Prosthesis ID (%)	446 (0.41)*	173 (0.16)
	Post-surgical ID (%)	1,244 (1.16)	1,186 (1.10)
	TB (%)	630 (0.61) [§] *	295 (0.27)
	Pulmonary TB (%)	202 (0.19)*	139 (0.13)
	CNS TB (%)	17 (0.01)*	6 (0.005)
	GI TB (%)	13 (0.01)*	0 (0)
	Osteoarticular TB (%)	33 (0.03)*	5 (0.004)
	Spinal TB (%)	22 (0.021)*	4 (0.003)
	Urogenital TB (%)	7 (0.006)	6 (0.005)
	Miliary TB_ (%)	77 (0.07)*	10 (0.009)
	Cytomegalovirus (%)	109 (0.10)*	77 (0.07)
	EpsteinBarr_virus (%)	39 (0.03)*	19 (0.01)
	Herpes_zoster (%)	258 (0.24)*	154 (0.14)
	HCV (%)	1,418 (1.32)*	1,644 (1.53)
	HBV (%)	343 (0.32)*	275 (0.25)

[§] standardized mean difference (SMD) >0.1. *p<0.05. Abbreviations: OR: odds ratio ; ALOS: Average Length Of Stay; SD: standard deviation; TB: tuberculosis; COPD: chronic obstructive pulmonary disease; AIDS: acquired immunodeficiency syndrome; DM: diabetes mellitus; CV: cardiovascular, DVT-PE: deep vein thrombosis-pulmonary embolism; HT: hypertension; c_equina: cauda equina; ID: infectious disease; CNS: central nervous system; GI: gastrointestinal; HCV: hepatitis C virus; HBV: hepatitis B virus.

SM-Table 2: Crude and Adjusted Incidence by Type of OS for Men.

Men	Year	Population*	SpA Cohort				Non-SpA Cohort					
			Cases	Crude rate (/100,000 /year)	Adjusted rate** (/100,000 /year)	95% CI	Cases	Crude rate (/100,000 /year)	Adjusted rate** (/100,000 /year)	95% CI		
All OS	1999	172,698	110	63.69	69.26	56.69	84.21	27	15.63	16.98	11.13	25.32
	2000	174,765	143	81.82	89.24	75.02	105.77	49	28.04	30.07	22.21	40.34
	2001	176,763	146	82.60	90.43	76.20	106.91	64	36.21	40.30	30.95	52.00
	2002	180,809	166	91.81	101.00	86.00	118.15	64	35.40	39.10	30.02	50.42
	2003	185,045	177	95.65	103.57	88.76	120.48	80	43.23	48.04	37.99	60.25
	2004	188,735	178	94.31	103.99	89.19	120.83	82	43.45	47.63	37.81	59.50
	2005	193,29	168	86.92	93.93	80.13	109.64	87	45.01	49.77	39.80	61.73
	2006	196,662	201	102.21	111.11	96.18	127.91	105	53.39	58.10	47.46	70.64
	2007	200,927	209	104.02	114.82	99.73	131.73	100	49.77	54.22	44.08	66.18
	2008	204,415	193	94.42	103.34	89.21	119.20	104	50.88	55.65	45.44	67.66
	2009	205,834	186	90.36	98.43	84.74	113.81	102	49.55	54.69	44.58	66.54
	2010	206,414	211	102.22	108.90	94.66	124.77	134	64.92	70.25	58.84	83.32
	2011	206,88	219	105.86	112.23	97.83	128.20	144	69.61	73.90	62.31	87.07
	2012	206,612	212	102.61	107.49	93.51	123.05	148	71.63	74.56	63.00	87.67
	2013	205,474	261	127.02	130.76	115.36	147.64	200	97.34	100.31	86.89	115.23
	2014	204,569	296	144.69	146.60	130.39	164.28	183	89.46	90.75	78.06	104.91
	2015	204,119	355	173.92	173.92	156.29	192.98	191	93.57	93.57	80.78	107.80
	1999-2015	3,314,018	3,431	103.53	111.16	107.46	114.94	1,864	56.25	60.67	57.95	63.48
THA	1999	172,698	68	39.38	43.25	33.45	55.52	14	8.11	8.81	4.81	15.48
	2000	174,765	93	53.21	59.35	47.82	73.30	23	13.16	14.14	8.96	21.81
	2001	176,763	87	49.22	54.57	43.59	67.88	30	16.97	18.93	12.69	27.61
	2002	180,809	108	59.73	65.97	53.94	80.23	32	17.70	20.38	13.88	29.25
	2003	185,045	107	57.82	61.82	50.52	75.22	40	21.62	24.42	17.41	33.68
	2004	188,735	106	56.16	60.83	49.70	73.99	35	18.54	20.94	14.56	29.46
	2005	193,29	98	50.70	55.13	44.67	67.57	35	18.11	20.20	14.05	28.39
	2006	196,662	109	55.42	59.77	48.98	72.46	40	20.34	22.54	16.02	31.02
	2007	200,927	119	59.23	65.54	54.28	78.64	34	16.92	18.60	12.85	26.22
	2008	204,415	84	41.09	44.52	35.45	55.35	33	16.14	18.36	12.61	25.98
	2009	205,834	82	39.84	43.67	34.71	54.33	38	18.46	20.64	14.57	28.45
	2010	206,414	88	42.63	46.02	36.88	56.83	52	25.19	27.76	20.70	36.49
	2011	206,88	83	40.12	42.73	34.01	53.07	48	23.20	24.98	18.40	33.18
	2012	206,612	83	40.17	41.90	33.35	52.00	44	21.30	22.41	16.30	30.11
	2013	205,474	114	55.48	57.17	47.17	68.68	72	35.04	36.19	28.34	45.62
	2014	204,569	138	67.46	68.27	57.37	80.68	71	34.71	35.29	27.57	44.51
	2015	204,119	137	67.12	67.12	56.34	79.33	71	34.78	34.78	27.18	43.88
	1999-2015	3,314,018	1,704	51.42	55.15	52.53	57.85	712	21.48	23.55	21.82	25.36
TKA	1999	172,698	11	6.37	6.46	3.17	12.39	5	2.90	2.99	0.99	7.86
	2000	174,765	9	5.15	5.40	2.44	11.00	7	4.01	4.27	1.73	9.54
	2001	176,763	17	9.62	10.09	5.83	16.78	14	7.92	8.60	4.67	15.03
	2002	180,809	18	9.96	11.08	6.55	18.01	13	7.19	7.69	4.08	13.67

	2003	185,045	23	12.43	13.82	8.78	21.11	12	6.48	7.41	3.83	13.37
	2004	188,735	20	10.60	11.62	7.10	18.32	17	9.01	9.99	5.78	16.39
	2005	193,29	18	9.31	10.20	6.04	16.48	16	8.28	9.23	5.27	15.31
	2006	196,662	34	17.29	19.47	13.45	27.45	25	12.71	14.08	9.08	21.04
	2007	200,927	30	14.93	16.56	11.15	23.86	39	19.41	21.45	15.22	29.51
	2008	204,415	42	20.55	22.85	16.47	31.08	32	15.65	17.33	11.83	24.63
	2009	205,834	34	16.52	18.31	12.65	25.70	28	13.60	15.05	10.01	21.88
	2010	206,414	35	16.96	18.05	12.56	25.25	30	14.53	16.03	10.79	22.97
	2011	206,88	39	18.85	19.96	14.17	27.36	43	20.78	22.22	16.09	29.99
	2012	206,612	45	21.78	22.95	16.74	30.79	41	19.84	20.83	14.92	28.32
	2013	205,474	48	23.36	24.04	17.71	31.92	62	30.17	31.19	23.89	40.01
	2014	204,569	55	26.89	27.29	20.54	35.51	48	23.46	23.86	17.58	31.63
	2015	204,119	84	41.15	41.15	32.80	50.93	48	23.52	23.52	17.33	31.17
	1999-2015	3,314,018	562	16.96	18.24	16.78	19.81	480	14.48	15.70	14.34	17.16
ULA	1999	172,698	3	1.74	1.87	0.35	6.44	1	0.58	0.72	0.00	4.81
	2000	174,765	4	2.29	2.43	0.66	7.16	10	5.72	5.95	2.79	11.75
	2001	176,763	6	3.39	3.67	1.31	8.72	8	4.53	5.04	2.13	10.56
	2002	180,809	3	1.66	1.52	0.28	5.49	9	4.98	5.03	2.26	10.24
	2003	185,045	7	3.78	4.37	1.78	9.43	8	4.32	4.56	1.92	9.59
	2004	188,735	7	3.71	3.84	1.50	8.47	12	6.36	6.95	3.59	12.57
	2005	193,29	9	4.66	4.99	2.25	9.95	15	7.76	8.81	4.90	14.86
	2006	196,662	7	3.56	3.31	1.29	7.40	18	9.15	10.20	6.04	16.41
	2007	200,927	6	2.99	3.38	1.22	7.61	7	3.48	3.42	1.33	7.47
	2008	204,415	5	2.45	2.41	0.75	6.02	15	7.34	7.40	4.09	12.50
	2009	205,834	6	2.91	2.92	1.05	6.70	11	5.34	5.72	2.87	10.45
	2010	206,414	14	6.78	7.24	3.96	12.28	21	10.17	10.93	6.78	16.82
	2011	206,88	18	8.70	9.16	5.44	14.60	19	9.18	9.61	5.77	15.11
	2012	206,612	8	3.87	3.93	1.67	7.88	24	11.62	11.99	7.65	17.91
	2013	205,474	14	6.81	6.94	3.80	11.68	30	14.60	14.92	10.04	21.35
2014	204,569	19	9.29	9.39	5.64	14.70	18	8.80	8.87	5.27	14.06	
2015	204,119	23	11.27	11.27	7.12	16.90	31	15.19	15.19	10.30	21.56	
	1999-2015	3,314,018	159	4.80	5.07	4.29	5.95	257	7.75	8.19	7.22	9.25
Arthrodesis	1999	172,698	3	1.74	1.87	0.35	6.44		0.00	0.00	-	-
	2000	174,765	5	2.86	3.13	0.98	8.12		0.00	0.00	-	-
	2001	176,763	7	3.96	4.16	1.68	9.30	2	1.13	1.18	0.15	5.22
	2002	180,809	4	2.21	2.50	0.69	7.02		0.00	0.00	-	-
	2003	185,045	4	2.16	2.57	0.71	7.04	3	1.62	1.48	0.27	5.27
	2004	188,735	5	2.65	2.96	0.98	7.38	2	1.06	1.25	0.15	4.96
	2005	193,29	3	1.55	1.42	0.27	4.91	2	1.03	1.01	0.10	4.41
	2006	196,662	5	2.54	2.72	0.85	6.74	2	1.02	0.81	0.10	3.84
	2007	200,927	1	0.50	0.57	0.00	3.55	3	1.49	1.70	0.33	5.29
	2008	204,415	5	2.45	2.74	0.91	6.62	2	0.98	1.07	0.15	4.21
	2009	205,834	6	2.91	3.20	1.15	7.13	1	0.49	0.54	0.00	3.26
2010	206,414	6	2.91	2.91	1.05	6.60	5	2.42	2.41	0.80	5.90	
2011	206,88	9	4.35	4.65	2.10	8.92	3	1.45	1.36	0.27	4.27	

	2012	206,612	3	1.45	1.53	0.29	4.54	6	2.90	2.98	1.08	6.61
	2013	205,474	7	3.41	3.48	1.37	7.21	4	1.95	1.96	0.52	5.11
	2014	204,569	4	1.96	1.96	0.52	5.06	5	2.44	2.46	0.82	5.76
	2015	204,119	5	2.45	2.45	0.81	5.69	4	1.96	1.96	0.52	5.00
	1999-2015	3,314,018	82	2.47	2.65	2.12	3.29	44	1.33	1.37	0.99	1.83
Spinal Surgery	1999	172,698	25	14.48	15.79	10.12	24.07	7	4.05	4.46	1.78	10.03
	2000	174,765	32	18.31	18.93	12.83	27.44	9	5.15	5.72	2.58	11.57
	2001	176,763	33	18.67	20.48	14.04	29.33	10	5.66	6.56	3.15	12.60
	2002	180,809	35	19.36	21.26	14.70	30.10	10	5.53	6.00	2.85	11.63
	2003	185,045	36	19.45	20.99	14.65	29.48	17	9.19	10.17	5.85	16.80
	2004	188,735	40	21.19	24.75	17.67	33.99	16	8.48	8.51	4.81	14.37
	2005	193,29	44	22.76	24.52	17.79	33.29	19	9.83	10.51	6.28	16.81
	2006	196,662	48	24.41	27.02	19.92	36.11	20	10.17	10.46	6.36	16.56
	2007	200,927	53	26.38	28.77	21.50	37.90	17	8.46	9.05	5.23	14.77
	2008	204,415	57	27.88	30.81	23.31	40.15	24	11.74	12.60	8.03	19.00
	2009	205,834	58	28.18	30.33	22.98	39.38	24	11.66	12.74	8.14	19.13
	2010	206,414	68	32.94	34.68	26.92	44.13	26	12.60	13.12	8.54	19.39
	2011	206,88	70	33.84	35.72	27.84	45.24	31	14.98	15.73	10.67	22.42
	2012	206,612	73	35.33	37.18	29.13	46.82	33	15.97	16.36	11.25	23.04
	2013	205,474	78	37.96	39.13	30.95	48.88	32	15.57	16.04	10.96	22.69
2014	204,569	80	39.11	39.68	31.47	49.40	41	20.04	20.28	14.53	27.50	
2015	204,119	110	53.89	53.89	44.30	64.94	39	19.11	19.11	13.57	26.11	
	1999-2015	3,314,018	940	28.36	30.59	28.66	32.60	375	11.32	12.00	10.83	13.28

OS: orthopedic surgery; SpA: spondyloarthritis; THA: total hip arthroplasty; TKA: total knee arthroplasty; ULA: upper limb arthroplasty; **adjusted by age and sex.

SM-Table 3: Crude and Adjusted Incidence by Type of OS for Women.

All	Year	Population*	SpA Cohort					Non-SpA Cohort				
			Cases	Crude rate (/100,000 /year)	Adjusted rate** (/100,000 /year)	95% CI		Cases	Crude rate (/100,000 /year)	Adjusted rate** (/100,000 /year)	95% CI	
All OS	1999	88,345	64	72.44	77.18	59.27	99.38	36	40.75	43.03	29.99	60.42
	2000	89,268	56	62.73	63.69	47.93	83.62	32	35.85	38.51	26.20	55.20
	2001	90,154	66	73.21	78.12	60.30	100.09	47	52.13	55.63	40.81	74.68
	2002	91,774	70	76.27	79.70	61.98	101.44	54	58.84	65.04	48.72	85.53
	2003	93,561	75	80.16	85.96	67.54	108.28	66	70.54	75.46	58.29	96.57
	2004	95,091	76	79.92	84.82	66.71	106.74	84	88.34	94.95	75.65	118.05
	2005	96,791	80	82.65	88.95	70.44	111.21	69	71.29	77.50	60.23	98.55
	2006	98,323	91	92.55	97.30	78.24	119.93	71	72.21	77.38	60.36	97.98
	2007	100,146	99	98.86	104.28	84.71	127.31	80	79.88	85.98	68.15	107.32
	2008	101,634	125	122.99	130.25	108.38	155.50	80	78.71	85.03	67.40	106.08
	2009	102,511	121	118.04	124.56	103.33	149.06	118	115.11	123.50	102.19	148.13
	2010	103,061	142	137.78	144.11	121.34	170.03	118	114.49	121.12	100.24	145.20
	2011	103,546	144	139.07	144.58	121.89	170.33	134	129.41	135.80	113.77	160.95
	2012	103,773	155	149.36	154.35	130.98	180.71	145	139.73	145.30	122.61	171.06
	2013	103,609	194	187.24	191.36	165.35	220.31	157	151.53	155.63	132.22	181.99
	2014	103,442	169	163.38	165.05	141.11	191.90	206	199.14	201.51	174.94	231.02
	2015	103,411	224	216.61	216.62	189.20	246.92	172	166.33	166.33	142.40	193.13
	1999-2015	1,668,447	1951	116.94	122.57	117.16	128.15	1,669	100.03	106.00	100.95	111.22
THA	1999	88,345	25	28.30	32.37	20.87	48.46	16	18.11	19.95	11.30	33.23
	2000	89,268	20	22.40	22.41	13.54	35.63	12	13.44	15.44	7.84	27.80
	2001	90,154	21	23.29	25.67	15.82	39.93	12	13.31	13.91	7.14	25.20
	2002	91,774	22	23.97	24.79	15.43	38.40	27	29.42	33.60	22.04	49.52
	2003	93,561	25	26.72	27.69	17.82	41.60	27	28.86	31.51	20.68	46.44
	2004	95,091	31	32.60	34.19	23.15	49.15	29	30.50	33.34	22.27	48.38
	2005	96,791	21	21.70	24.29	14.96	37.61	24	24.80	27.36	17.44	41.18
	2006	98,323	25	25.43	26.91	17.37	40.18	27	27.46	30.00	19.70	44.02
	2007	100,146	32	31.95	34.04	23.24	48.44	22	21.97	24.52	15.30	37.40
	2008	101,634	28	27.55	28.58	18.95	41.65	19	18.69	21.22	12.73	33.37
	2009	102,511	29	28.29	30.14	20.14	43.55	36	35.12	38.53	26.94	53.52
	2010	103,061	35	33.96	35.86	24.94	50.08	37	35.90	38.63	27.21	53.36
	2011	103,546	36	34.77	37.10	25.96	51.45	36	34.77	37.00	25.88	51.29
	2012	103,773	42	40.47	41.76	30.08	56.55	32	30.84	32.48	22.23	45.90
	2013	103,609	50	48.26	49.49	36.76	65.31	41	39.57	40.88	29.33	55.50
	2014	103,442	46	44.47	44.95	32.92	59.98	58	56.07	56.84	43.14	73.49
	2015	103,411	69	66.72	66.73	51.94	84.44	53	51.25	51.25	38.42	67.04
	1999-2015	1,668,447	557	33.38	35.31	32.43	38.37	508	30.45	33.04	30.21	36.08
TKA	1999	88,345	13	14.72	14.97	7.93	26.53	13	14.72	14.97	7.93	26.53
	2000	89,268	13	14.56	14.39	7.63	25.62	16	17.92	17.69	10.09	29.61
	2001	90,154	16	17.75	18.23	10.37	30.42	20	22.18	22.85	13.95	36.05
	2002	91,774	18	19.61	20.92	12.38	33.74	19	20.70	22.13	13.24	35.29

	2003	93,561	20	21.38	22.12	13.50	34.78	30	32.06	33.49	22.56	48.41
	2004	95,091	16	16.83	18.39	10.46	30.39	38	39.96	42.12	29.78	58.32
	2005	96,791	19	19.63	20.96	12.58	33.23	28	28.93	30.62	20.31	44.72
	2006	98,323	24	24.41	26.32	16.84	39.53	35	35.60	37.87	26.33	53.05
	2007	100,146	29	28.96	30.73	20.57	44.47	44	43.94	46.62	33.84	62.90
	2008	101,634	41	40.34	42.79	30.69	58.33	35	34.44	36.56	25.44	51.13
	2009	102,511	31	30.24	31.61	21.48	45.11	56	54.63	58.18	43.94	75.74
	2010	103,061	46	44.63	46.60	34.12	62.34	47	45.60	47.69	35.04	63.60
	2011	103,546	44	42.49	43.71	31.73	58.83	55	53.12	55.37	41.70	72.17
	2012	103,773	50	48.18	49.78	36.97	65.72	67	64.56	66.92	51.84	85.03
	2013	103,609	56	54.05	55.29	41.78	71.81	66	63.70	65.33	50.55	83.13
	2014	103,442	51	49.30	49.95	37.18	65.70	88	85.07	86.04	68.98	106.04
	2015	103,411	66	63.82	63.82	49.38	81.21	72	69.63	69.63	54.46	87.69
	1999-2015	1,668,447	553	33.14	34.54	31.72	37.55	729	43.69	45.52	42.28	48.98
ULA	1999	88,345	6	6.79	6.96	2.51	16.26	5	5.659622	5.8534	1.8433	14.7791
	2000	89,268	5	5.60	6.02	1.90	15.02	2	2.24042	2.6905	0.3053	10.492
	2001	90,154	5	5.55	5.93	1.91	14.74	4	4.436817	4.8306	1.3292	13.2571
	2002	91,774	3	3.27	3.23	0.64	10.66	5	5.448125	5.8408	1.8846	14.4989
	2003	93,561	7	7.48	8.53	3.42	18.10	7	7.48173	8.1364	3.2422	17.4709
	2004	95,091	7	7.36	8.09	3.23	17.26	10	10.51616	11.4128	5.4413	21.52
	2005	96,791	7	7.23	7.99	3.18	17.00	9	9.298314	10.121	4.6292	19.7038
	2006	98,323	10	10.17	9.91	4.74	18.87	3	3.051164	3.3396	0.6785	10.2555
	2007	100,146	8	7.99	8.17	3.53	16.58	9	8.986863	9.6436	4.4099	18.6876
	2008	101,634	10	9.84	10.35	4.93	19.40	14	13.77486	14.904	8.1603	25.2847
	2009	102,511	17	16.58	17.57	10.23	28.38	12	11.7061	12.3197	6.3459	21.7957
	2010	103,061	8	7.76	7.84	3.38	15.74	18	17.46524	18.4242	10.9414	29.2665
	2011	103,546	14	13.52	14.01	7.67	23.64	23	22.21234	23.3837	14.8199	35.2005
	2012	103,773	19	18.31	19.02	11.44	29.78	24	23.12736	24.0581	15.4219	35.8939
	2013	103,609	28	27.02	27.63	18.35	39.96	25	24.12895	24.7661	16.0444	36.5921
2014	103,442	16	15.47	15.59	8.89	25.35	35	33.83512	34.2775	23.861	47.6742	
2015	103,411	16	15.47	15.47	8.83	25.11	20	19.3404	19.3407	11.8326	29.8661	
	1999-2015	1,668,447	186	11.15	11.68	10.05	13.49	225	13.48559	14.3595	12.5503	16.395
Arthrodesis	1999	88,345	5	5.66	5.62	1.79	14.41		0.00	0.00	-	-
	2000	89,268	2	2.24	2.69	0.31	10.49		0.00	0.00	-	-
	2001	90,154	6	6.66	6.58	2.36	15.47	2	2.22	2.42	0.26	9.75
	2002	91,774	5	5.45	5.79	1.86	14.43		0.00	0.00	-	-
	2003	93,561	4	4.28	4.81	1.33	12.98	1	1.07	1.09	0.05	7.29
	2004	95,091	2	2.10	2.28	0.28	9.02	2	2.10	2.42	0.27	9.30
	2005	96,791	7	7.23	7.09	2.81	15.43	1	1.03	1.17	0.05	7.15
	2006	98,323	10	10.17	11.25	5.36	21.06		0.00	0.00	-	-
	2007	100,146	5	4.99	4.91	1.57	12.14	1	1.00	1.04	0.05	6.48
	2008	101,634	6	5.90	6.01	2.18	13.56	3	2.95	2.93	0.58	9.15
	2009	102,511	4	3.90	3.92	1.04	10.47	1	0.98	0.83	0.00	5.65
2010	103,061	5	4.85	5.23	1.68	12.36	2	1.94	2.05	0.26	7.66	
2011	103,546	3	2.90	2.88	0.58	8.74	3	2.90	3.00	0.61	8.96	

	2012	103,773	4	3.85	4.06	1.08	10.46	7	6.75	7.07	2.85	14.63
	2013	103,609	9	8.69	8.77	4.00	16.71	1	0.97	0.99	0.05	5.55
	2014	103,442	5	4.83	4.90	1.57	11.46	3	2.90	2.94	0.59	8.62
	2015	103,411	8	7.74	7.74	3.35	15.24	4	3.87	3.87	1.03	9.89
	1999-2015	1,668,447	90	5.39	5.57	4.49	6.89	31	1.86	1.97	1.33	2.81
Spinal Surgery	1999	88,345	15	16.98	17.26	9.60	29.43	2	2.26	2.26	0.27	9.66
	2000	89,268	18	20.16	20.87	12.29	33.87	2	2.24	2.69	0.31	10.49
	2001	90,154	22	24.40	26.55	16.56	40.92	9	9.98	11.63	5.33	22.65
	2002	91,774	22	23.97	24.97	15.60	38.59	3	3.27	3.47	0.70	11.13
	2003	93,561	21	22.45	24.52	15.15	38.02	1	1.07	1.24	0.05	7.66
	2004	95,091	20	21.03	21.86	13.33	34.36	7	7.36	7.82	3.12	16.77
	2005	96,791	26	26.86	28.62	18.69	42.43	7	7.23	8.22	3.30	17.35
	2006	98,323	22	22.38	22.92	14.31	35.24	6	6.10	6.17	2.24	14.05
	2007	100,146	25	24.96	26.43	17.10	39.38	4	3.99	4.16	1.09	11.21
	2008	101,634	42	41.32	44.56	32.08	60.49	11	10.82	11.58	5.77	21.05
	2009	102,511	44	42.92	45.49	33.02	61.30	13	12.68	13.65	7.24	23.55
	2010	103,061	48	46.57	48.58	35.80	64.62	14	13.58	14.32	7.84	24.23
	2011	103,546	47	45.39	46.89	34.44	62.50	19	18.35	19.06	11.45	29.89
	2012	103,773	40	38.55	39.73	28.38	54.19	19	18.31	18.78	11.28	29.43
	2013	103,609	53	51.15	52.17	39.10	68.29	24	23.16	23.67	15.17	35.27
	2014	103,442	53	51.24	51.63	38.70	67.57	22	21.27	21.41	13.40	32.42
	2015	103,411	67	64.79	64.79	50.19	82.30	23	22.24	22.24	14.10	33.36
	1999-2015	1,668,447	585	35.06	36.72	33.80	39.84	186	11.15	11.73	10.10	13.54

OS: orthopedic surgery; SpA: spondyloarthritis; THA: total hip arthroplasty; TKA: total knee arthroplasty; ULA: upper limb arthroplasty; **adjusted by age and sex.