

Supplementary data

Table A. Nordic Medico-Statistical Committee
Classification of Surgical Procedures Codes

Surgical procedure	Procedure code
Plate osteosynthesis	KNBJ61
Nail osteosynthesis	KNBJ51
Other	
External fixation	KNBJ21
K-wire fixation	KNBJ41
Screw fixation	KNBJ71
Combined fixation	KNBJ81

Table B. Incidence rates per 100,000/year for humeral shaft fractures from 1996 to 2018

	Mean	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Incidence rate ^a	25	27	27	28	26	26	24	24	25	27	25	27	25	24	25	27	24	22	22	21	23	24	26	26	
Sex ^a																									
Female	29	31	31	33	28	29	26	28	28	29	28	31	29	28	29	31	27	24	26	25	28	29	32	33	
Male	20	21	22	21	23	21	20	19	21	24	21	21	20	19	21	21	20	18	18	16	17	19	20	18	
Age ^b																									
18–24	11	10	13	15	14	14	13	12	14	12	16	12	13	11	9	10	11	10	5	9	7	10	13	8	
25–29	9	9	9	15	7	11	11	8	9	10	8	5	11	9	9	14	7	7	8	8	8	7	12	5	
30–34	7	9	7	6	7	12	8	8	7	7	6	7	7	5	6	7	7	5	6	6	6	5	7	8	
35–39	8	9	11	10	11	12	9	9	6	7	7	6	6	6	7	4	6	5	6	7	5	7	9	8	
40–44	10	11	11	12	8	11	9	14	11	12	11	9	11	10	11	11	10	7	9	6	11	8	9	10	
45–49	13	13	14	15	13	13	11	14	10	19	15	16	14	12	15	13	12	9	9	14	10	13	13	12	
50–54	18	18	20	19	14	18	18	18	17	17	17	19	20	20	20	23	15	17	19	16	12	18	17	20	
55–59	24	25	27	21	25	25	23	26	25	28	28	28	22	23	21	30	25	24	27	19	22	20	25	23	
60–64	29	41	23	27	28	22	22	22	26	31	24	28	33	32	31	32	29	26	26	29	31	33	35	37	
65–69	38	42	40	40	37	36	33	31	34	37	33	41	38	40	37	34	42	35	39	31	33	45	42	43	
70–74	47	48	49	53	52	40	42	45	42	51	45	56	44	35	45	49	49	39	46	43	48	50	53	59	
75–79	64	66	73	78	63	79	63	64	70	74	62	62	66	58	67	66	52	48	60	50	66	56	65	69	
80–84	87	90	96	101	84	85	83	86	91	83	92	86	88	88	106	98	87	79	68	72	78	89	83	83	
85–89	111	150	108	115	142	84	107	109	125	108	118	125	98	101	100	130	99	105	107	85	119	116	110	101	
≥ 90	141	111	180	156	130	154	118	121	160	146	155	204	115	147	145	139	138	139	139	121	123	105	153	141	

Table B continued

	Mean	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Female ^b																								
18–24	6	4	8	9	5	10	6	7	6	4	7	5	5	8	5	5	6	7	2	5	8	7	9	5
25–29	6	6	3	13	5	9	7	7	7	4	6	5	4	10	6	10	3	4	2	6	7	4	6	4
30–34	5	5	5	3	7	8	6	6	4	4	5	6	5	6	6	6	4	1	4	5	4	4	4	8
35–39	6	7	7	7	8	10	9	6	6	7	5	5	6	4	7	5	4	3	7	9	2	6	6	4
40–44	8	5	9	9	8	9	7	12	7	7	11	6	10	8	8	9	6	8	5	5	9	5	7	5
45–49	12	12	15	14	11	9	12	12	11	19	14	16	13	11	11	12	7	8	8	16	10	11	10	13
50–54	19	24	23	21	14	19	18	20	17	17	21	19	24	23	17	25	14	19	18	18	14	17	18	23
55–59	28	29	27	24	27	29	21	29	31	33	28	32	24	24	29	37	25	25	36	21	27	21	32	35
60–64	36	53	29	34	37	31	22	28	28	40	31	36	43	41	33	40	37	35	32	34	39	44	46	43
65–69	49	56	55	55	53	48	40	36	47	44	43	56	49	50	49	41	55	40	53	39	41	60	60	57
70–74	62	63	67	74	60	59	54	62	58	73	51	72	61	48	56	56	62	51	52	59	64	70	71	83
75–79	86	88	96	111	73	111	83	83	84	94	86	79	94	77	94	96	76	57	79	65	92	69	98	104
80–84	112	118	126	130	104	104	101	108	113	105	112	118	102	118	126	116	121	97	88	100	105	119	116	121
85–89	133	177	140	136	139	96	118	135	134	119	143	149	122	123	119	158	123	125	142	95	152	146	127	135
≥ 90	160	127	165	186	139	142	147	148	184	150	178	240	130	158	175	175	154	164	161	158	139	116	180	158
Male ^b																								
18–24	16	16	18	21	22	17	21	16	21	21	24	17	20	14	13	15	16	14	8	12	7	13	17	10
25–29	12	12	16	18	10	13	14	9	12	16	9	5	19	7	13	18	10	9	13	10	8	11	17	6
30–34	9	13	10	8	7	16	9	10	10	11	8	8	9	5	7	8	11	9	8	7	8	5	9	7
35–39	9	11	15	12	13	13	8	11	6	8	8	6	7	8	8	4	8	7	6	6	7	7	12	12
40–44	12	16	13	15	7	14	11	15	15	17	11	13	12	11	14	12	13	7	13	8	13	12	10	15
45–49	14	13	13	17	15	16	11	16	9	19	17	16	15	14	19	13	17	10	11	12	11	15	16	12
50–54	17	13	17	17	14	17	19	15	18	17	14	20	15	18	22	21	17	16	21	13	11	20	16	17
55–59	21	21	27	17	23	22	24	22	19	24	27	25	19	23	14	22	25	23	19	17	17	18	18	10
60–64	22	29	16	20	18	14	22	16	23	22	17	20	23	22	28	24	22	16	20	23	23	21	24	31
65–69	25	27	22	23	19	23	26	26	20	29	23	25	28	30	23	26	29	30	24	23	25	29	23	28
70–74	30	29	26	27	42	17	27	25	23	26	37	36	25	21	34	41	34	26	40	25	32	27	35	32
75–79	35	34	38	29	49	32	34	37	50	47	31	41	29	33	34	29	23	37	37	31	34	41	26	29
80–84	49	41	44	51	49	53	54	48	54	47	60	33	65	41	76	72	38	54	41	34	42	50	40	33
85–89	69	88	35	69	149	58	82	53	107	87	66	76	48	55	62	73	52	66	42	67	62	64	81	45
≥ 90	85	62	229	59	100	192	26	38	86	132	83	93	68	112	55	32	90	68	75	18	78	76	82	96

^a Standardized incidence rate; ^b Crude incidence rate

Table C. Treatment distribution by different procedures for humeral shaft fractures from 1996 to 2018

Procedures	Mean	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Non-surgical	20,534	889	888	940	862	858	799	826	861	916	864	902	862	870	898	955	889	789	844	807	901	963	1,077	1,074
Surgical	3,184	129	130	121	104	136	119	126	115	142	137	159	158	116	153	158	137	146	158	134	133	160	160	3,184
Plate	1,529	16	25	27	30	29	34	51	47	53	50	58	75	57	80	93	83	87	109	88	100	115	116	106
Nail	1,237	74	76	60	52	77	61	54	50	63	63	77	72	47	60	54	47	48	39	32	20	38	33	40
Other	418	39	29	34	22	30	24	21	18	26	24	24	11	12	13	11	7	11	10	14	13	7	11	7