

1 **Supplementary**2 **Supplementary Table S1** Baseline characteristics of each hospital

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	A	B	C	D	E	F	G	H	I	J	K
	(n=100)	(n=225)	(n=472)	(n=337)	(n=140)	(n=247)	(n=74)	(n=126)	(n=61)	(n=72)	(n=160)
Age (years), mean (SD)	85.1 (7.8)	86.0 (8.8)	85.4 (8.1)	85.0 (9.2)	85.1 (8.3)	86.5 (7.6)	85.4 (7.3)	84.9 (8.4)	85.4 (8.6)	85.9 (8.9)	83.6 (8.5)
Sex, female, n (%)	81 (81.0)	171 (76.0)	371 (78.6)	272 (80.7)	105 (75.0)	193 (78.1)	62 (83.8)	92 (73.0)	46 (75.4)	56 (77.8)	112 (70.0)
BMI (kg/m ²), mean (SD)	20.6 (2.8)	20.1 (3.5)	20.3 (3.5)	20.5 (3.5)	21.1 (3.9)	20.2 (3.3)	21.7 (4.2)	20.0 (3.4)	19.9 (3.2)	19.5 (2.8)	20.5 (3.5)
Pre-fracture residence, n (%)											
Own home	84 (84.0)	167 (74.2)	405 (85.8)	288 (85.5)	122 (87.1)	185 (74.9)	67 (90.5)	91 (72.2)	52 (85.2)	56 (77.8)	126 (78.8)

Nursing facility	16 (16.0)	58 (25.8)	67 (14.2)	49 (14.5)	18 (12.9)	62 (25.1)	7 (9.5)	35 (27.8)	9 (14.8)	16 (22.2)	34 (21.2)
Pre-fracture walking ability, n (%)											
Without aids	54 (54.0)	133 (59.1)	286 (60.6)	170 (50.4)	81 (57.9)	158 (64.0)	36 (48.6)	74 (58.7)	34 (55.7)	39 (54.2)	96 (60.0)
With cane	18 (18.0)	35 (15.6)	83 (17.6)	82 (24.3)	29 (20.7)	41 (16.6)	22 (29.7)	23 (18.3)	6 (9.8)	17 (23.6)	34 (21.2)
With walker	28 (28.0)	57 (25.3)	103 (21.8)	85 (25.2)	30 (21.4)	48 (19.4)	16 (21.6)	29 (23.0)	21 (34.4)	16 (22.2)	30 (18.8)
Cognitive impairment, n (%)	39 (39.0)	134 (59.6)	195 (41.3)	106 (31.5)	67 (47.9)	137 (55.5)	34 (45.9)	50 (39.7)	23 (37.7)	40 (55.6)	81 (50.6)
Comorbidity, n (%)											
Respiratory disease	10 (10.0)	8 (3.6)	40 (8.5)	28 (8.3)	17 (12.1)	30 (12.1)	5 (6.8)	11 (8.7)	7 (11.5)	8 (11.1)	23 (14.4)

Cardiovascular disease	40 (40.0)	37 (16.4)	87 (18.4)	79 (23.4)	27 (19.3)	67 (27.1)	16 (21.6)	35 (27.8)	10 (16.4)	43 (59.7)	53 (33.1)
Neurological disease	29 (29.0)	18 (8.0)	65 (13.8)	41 (12.2)	19 (13.6)	40 (16.2)	8 (10.8)	27 (21.4)	5 (8.2)	12 (16.7)	18 (11.2)
Fracture type, n (%)											
Neck	44 (44.0)	97 (43.1)	225 (47.7)	175 (51.9)	70 (50.0)	146 (59.1)	43 (58.1)	66 (52.4)	35 (57.4)	41 (56.9)	99 (61.9)
Intertrochanter	56 (56.0)	128 (56.9)	247 (52.3)	162 (48.1)	70 (50.0)	101 (40.9)	31 (41.9)	60 (47.6)	26 (42.6)	31 (43.1)	61 (38.1)
Surgical procedure, n (%)											
Osteosynthesis	73 (73.0)	194 (86.2)	319 (67.6)	231 (68.5)	96 (68.6)	140 (56.7)	45 (60.8)	81 (64.3)	35 (57.4)	34 (47.2)	80 (50.0)
Hip hemiarthroplasty	27 (27.0)	31 (13.8)	153 (32.4)	106 (31.5)	44 (31.4)	107 (43.3)	29 (39.2)	45 (35.7)	26 (42.6)	38 (52.8)	80 (50.0)

4 Abbreviations: BMI, body mass index.

5 Missing values were <5% for all variables unless otherwise indicated.

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19 **Supplementary Table S2** Characteristics of interventions and clinical outcomes in the participating hospitals

	A	B	C	D	E	F	G	H	I	J	K
	(n=100)	(n=225)	(n=472)	(n=337)	(n=140)	(n=247)	(n=74)	(n=126)	(n=61)	(n=72)	(n=160)
LOS after surgery	52.1	38.7	20.3	23.8	27.1	22.8	31.2	23.5	33.0	27.3	16.5
(days), mean (SD)	(26.5)	(16.7)	(10.6)	(41.0)	(21.5)	(16.1)	(17.4)	(10.8)	(17.4)	(11.9)	(6.9)
Missing	0 (0.0)	0 (0.0)	0 (0.0)	7(2.1)	2(1.4)	0(0.0)	0 (0.0)	1(0.8)	29(47.5)	0 (0.0)	0 (0.0)
Days from admission to surgery, n (%)											
Early surgery	13 (13.0)	73 (32.4)	125 (26.5)	245 (72.7)	27 (19.3)	136 (55.1)	48 (64.9)	70 (55.6)	19 (31.1)	14 (19.4)	53 (33.1)
Delayed surgery	87 (87.0)	152 (67.6)	347 (73.5)	92 (27.3)	111 (79.3)	111 (44.9)	26 (35.1)	56 (44.4)	42 (68.9)	58 (80.6)	107 (66.9)
Missing	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Days to first
walking in
rehabilitation after
surgery, n (%)

Early walk	38	18	171	87	75	114	16	61	5	17	54
	(38.0)	(8.0)	(36.2)	(25.8)	(53.6)	(46.2)	(21.6)	(48.4)	(8.2)	(23.6)	(33.8)
Delayed walk	57	191	251	216	53	118	47	60	41	54	85
	(57.0)	(84.9)	(53.2)	(64.1)	(37.9)	(47.8)	(63.5)	(47.6)	(67.2)	(75.0)	(53.1)
Missing	5	16	50	34	12	15	11	5	15	1	21
	(5.0)	(7.1)	(10.6)	(10.1)	(8.6)	(6.1)	(14.9)	(4.0)	(24.6)	(1.4)	(13.1)

Postoperative
weight bearing
status, n (%)

Full weight-bearing	90	222	441	332	128	230	66	119	55	68	146
	(90.0)	(98.7)	(93.4)	(98.5)	(91.4)	(93.1)	(89.2)	(94.4)	(90.2)	(94.4)	(91.2)

FIM ≥ 5	12	38	100	75	15	28	9	36	11	13	38
	(12.0)	(16.9)	(21.2)	(22.3)	(10.7)	(11.3)	(12.2)	(28.6)	(18.0)	(18.1)	(23.8)
FIM ≤ 4	87	161	368	257	102	213	64	87	47	59	116
	(87.0)	(71.6)	(78.0)	(76.3)	(72.9)	(86.2)	(86.5)	(69.0)	(77.0)	(81.9)	(72.5)
Missing	1	26	4	5	23	6	1	3	3	0	6
	(1.0)	(11.6)	(0.8)	(1.5)	(16.4)	(2.4)	(1.4)	(2.4)	(4.9)	(0.0)	(3.8)

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23 **Supplementary Table 3** Reporting quality, ROB, and applicability ratings of the Nagano Hip Fracture Database

	Development		Validation	
	Quality	Applicability	ROB	Applicability
Domain				
Participants	+	+	+	+
Predictors	+	+	+	+
Outcome	–	+	–	+
Analysis	+	NA	+	NA
Overall	–	+	–	+

24 *Notes:* + indicates low concern regarding quality or applicability and ROB; – indicates high concern regarding quality or applicability

25 and ROB.

26 Abbreviations: ROB, risk of bias; NA, not applicable.

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