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APPENDIX I Data on the Patients

Case	Sex	Age* (yr)	BMI (kg/m ²)	ASA	Diagnosis	Mechanism for Index Injury	AO	Reduction	Method	Cable	Implant	Time (m)	Mechanism of Breakage	Site	Diagnosis	Revision Implant†
1	F	70	24	2	Hip fracture	Mechanical fall	31A 2.2	Good	Closed	No	125°, 235x10mm, 100mm blade	8.6	Atraumatic	Proximal aperture	Non-union	130°, 235x12mm, 95mm blade + cement (TFNA)
2	F	77	27	2	Hip fracture	Mechanical fall	31A 3.3	Acceptable	Open	Yes	125°, 235x11mm, 105mm blade	3.4	Atraumatic	Proximal aperture	Delayed union	130°, 380x14mm, 110mm blade + cement (TFNA)
3	M	87	25	3	Hip fracture	Mechanical fall	31A 3.1	Good	Open	Yes	125°, 235x11mm, 105mm blade	2.8	Atraumatic	Proximal aperture	Non-union	130°, 235x12mm, 105mm blade (TFNA)
4	F	72	24	3	Hip fracture	Mechanical fall	31A 3.3	Good	Open	Yes	125°, 360x12mm, 90mm blade	3.6	Atraumatic	Proximal aperture	Delayed union	130°, 360x14mm, 85mm blade + cement (TFNA)
5	F	59	33	2	Hip fracture	Atraumatic	31A 3.2	Good	Closed	No	125°, 235x10mm, 85mm blade	5.6	Mechanical fall	Proximal + distal	Non-union	125°, 320x11mm, 90mm blade (TFNA)
6	F	89	29	2	Hip fracture	Mechanical fall	31A 2.2	Good	Closed	No	125°, 235x10mm, 90mm blade	6.5	Atraumatic	Proximal aperture	Delayed union	Non-operatively managed
7	F	94	30	3	Hip fracture	Mechanical fall	31A 3.1	Good	Open	Yes	130°, 360x12mm, 85mm screw	3.9	Atraumatic	Proximal aperture	Delayed union	130°, 360x12mm, 85mm screw (TFNA)
8	M	79	22	3	Broken PFNA	Mechanical fall	31A 3.3	Good	Open	No	130°, 235x12mm, 110mm screw	3.8	Atraumatic	Proximal aperture	Delayed union	400x14mm, 115 & 105mm recon screws (AFN)
9	F	77	27	2	Broken TFNA	Atraumatic	31A 3.3	Good	Closed	No	130°, 380x14mm, 110mm blade	2.3	Atraumatic	Proximal aperture	Delayed union	360x14mm, 115 & 120mm recon screws (AFN)
10	F	72	24	3	Broken TFNA	Atraumatic	31A 3.3	Acceptable	Open	Yes	130°, 360x14mm, 85mm blade	4.6	Atraumatic	Proximal aperture	Non-union	Total hip replacement (Zimmer ZMR)
11	M	74	28	2	Hip fracture	Mechanical fall	31A 3.3	Poor	Closed	No	130°, 360x10mm, 105mm blade	2.2	Atraumatic	Proximal aperture	Delayed union	125°, 380x12mm, 85mm blade (TFNA)
12	F	82	22	2	Hip fracture	Mechanical fall	31A 3.3	Good	Open	Yes	125°, 380x11mm, 95mm blade	5.6	Atraumatic	Proximal aperture	Delayed union	130°, 360x12mm, 85mm blade (TFNA)
13	F	79	22	2	Hip fracture	Mechanical fall	31A 3.3	Acceptable	Closed	No	125°, 235x11mm, 105mm blade	3.8	Atraumatic	Proximal aperture	Delayed union	125°, 200x12mm, 105mm blade + cement (PFNA)
14	M	75	28	2	Broken TFNA	Atraumatic	31A 3.3	Poor	Open	Yes	125°, 380x12mm, 85mm blade	5.4	Mechanical fall	Proximal aperture	Delayed union	Total hip replacement (Zimmer ZMR)
15	F	90	31	3	Hip fracture	Mechanical fall	32C 3i	Acceptable	Open	Yes	125°, 380x11mm, 90mm blade	7.2	Atraumatic	Proximal aperture	Delayed union	Non-operatively managed
16	M	92	26	3	Broken PFNA	Mechanical fall	32A 2a	Good	Closed	No	130°, 380x14mm, 100mm blade	9.8	Atraumatic	Proximal aperture	Non-union	Total hip replacement (Zimmer ZMR)

* At time of implant breakage. † AFN: DePuy Synthes Antegrade Femoral Nail, PFNA: DePuy Synthes Proximal Femoral Nail Antirotation.