

**The following content was supplied by the authors as supporting material and has not been copy-edited or verified by JBJS.**

#### Appendix 1. Exclusion criteria

- Patients with an unacceptable closed fracture reduction
- Multiple trauma patients (Injury Severity Score (ISS)  $\geq 16$ )
- Patients with open distal radius fractures
- Other fractures of the affected extremity (except for a fracture of the ulnar styloid process)
- Patients with impaired wrist function prior to trauma (e.g. rheumatoid arthritis, neurological disorders or previous malunion of the affected limb)
- Patients suffering from connective tissue disorders or disorders of bone metabolism other than osteoporosis
- Patients judged by the treating physician as being unable to understand the study information and informed consent forms

<b>Appendix 2. Baseline characteristics of the included and non-included eligible patients*</b>		
	<b>Included patients</b> <b>N = 90</b>	<b>Non-included patients</b> <b>N = 198</b>
<b>Age (years)</b>	59 [45.8–65.3]	60 [42.0–68.0]
<b>Sex</b>		
Female	67 (74%)	159 (80%)
Male	23 (26%)	39 (20%)
<b>AO/OTA classification</b>		
A2	23 (26%)	61 (31%)
A3	67 (74%)	137 (69%)
*Values are given as the number of patients with the percentage of patients in the cohort in parentheses, except for age, which is given as the median with the IQR in brackets. There were no significant differences between the 2 groups in baseline characteristics.		

<b>Appendix 3. Patient-reported outcomes*</b>			
	<b>Operative group</b>	<b>Non-operative group</b>	<b>P Value</b>
<b>6 weeks</b>			
DASH	22.5 [14.2–35.8]	48.3 [35.6–57.7]	<0.001†
PRWE	29.0 [18.5–48.5]	55.8 [40.9–70.9]	<0.001†
<b>3 months</b>			
DASH	6.7 [2.5–18.3]	27.5 [10.0–38.3]	<0.001†
PRWE	11.0 [4.0 – 22.5]	32.5 [12.0–50.0]	<0.001†
<b>6 months</b>			
DASH	5.8 [0.0–17.5]	14.2 [7.9–29.6]	0.004†
PRWE	7.0 [3.0–29.0]	20.0 [7.5–45.8]	0.008†
<b>12 months</b>			
DASH	2.5 [0.0–12.7]	9.2 [1.7–17.7]	0.018†
PRWE	4.0 [0.0–12.6]	10.0 [3.0–27.0]	0.015†
*Values are given as the median with the IQR in brackets. All patient-reported outcome measures are corrected for age. †Significant.			

<b>Appendix 4. Difference in patient-reported outcome measures between patients treated non-operatively without subsequent surgery (N=25) and patients treated operative primarily (N=47)*</b>			
	<b>Operative treatment</b>	<b>Non-operative treatment without subsequent surgery</b>	<b>P Value</b>
<b>6 weeks</b>			
DASH	22.5 [14.2–35.8]	46.3 [34.4–64.0]	<0.001†
PRWE	29.0 [18.5–48.5]	57.0 [32.6–71.5]	<0.001†
<b>3 months</b>			
DASH	6.7 [2.5–18.3]	27.5 [9.2–33.9]	<0.001†
PRWE	11.0 [4.0–22.5]	29.5 [12.3–48.3]	0.004†
<b>6 months</b>			
DASH	5.8 [0.0–17.5]	14.2 [8.3–27.5]	0.028†
PRWE	7.0 [3.0–29.0]	20.0 [9.0–45.5]	0.028†
<b>12 months</b>			
DASH	2.5 [0.0–12.7]	9.2 [1.0–15.6]	0.112
PRWE	4.0 [0.0–12.6]	8.0 [3.0–19.1]	0.064
*Values are given as the median with the IQR in brackets. All patient-reported outcome measures are corrected for age. †Significant.			



Appendix Figure 1a. Dorsally displaced extra-articular distal radius fracture



Appendix Figure 1b. Same fracture after acceptable closed reduction and immobilization with  
a plaster