## Supplementary article data

## Conversion to below-elbow cast after 3 weeks is safe for diaphyseal both-bone forearm fractures in children

## A multicenter randomized controlled trial involving 127 children

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	AEC	AEC + BEC
VAS cast comfort <sup>a</sup>	4.4 (2.3)	8.1 (1.8)
VAS cosmetics fractured arm by parents	7.8 (2.2)	8.6 (1.9)
VAS cosmetics fractured arm		8 0 (1 C)
by orthopedic surgeon Total ABILHAND score at	8.0 (2.0)	8.9 (1.6)
final clinical examination	40 (7.5)	41 (5.3)
Total complications, %	52	39
Secondary dislocation, %	37	31
Secondary reduction, %	11	3
Days in cast	44 (8)	44 (5)
Days until first clinical examination	79 (26)	78 (26)
Days until final clinical examination	211 (43)	208 (38)
Referral to physiotherapy, %	59	38
Number of visits to physiotherapy	4.1 (5.8)	2.2 (4.0)
Limitation of wrist flexion-extension		
of the fractured arm (degrees) Limitation of elbow flexion-extension	3.4 (6.9)	1.6 (3.8)
of the fractured arm (degrees)	1.2 (4.4)	0.5 (1.9)

Table 4. Data on secondary outcomes. Unless otherwise stated, values are mean (SD)

 $^{\rm a}$  Significant difference (p < 0.001) after correcting for imbalance of baseline variables, namely age, dominant arm, and type of fracture radius.

## Table 6. Radiographic outcomes

	AEC			AEC + BEC				
	Trauma	After reduction	Removal of cast	Final	Trauma	After reduction	Removal of cast	Final
Angulation								
ĂP ulna	13 (9)	3 (3)	4 (3)	6 (4)	13 (12)	4 (4)	6 (4)	6 (4)
AP radius	14 (8)	5 (3)	6 (4)	6 (4)	12 (10)	6 (3)	7 (5)	7 (5)
Lateral ulna	25 (18)	6 (5)	5 (5)	4 (4)	26 (16)	6 (4)	7 (5)	6 (4)
Lateral radius	28 (17)	9 (5)	10 (6)	8 (5)	28 (16)	7 (5)	9 (5)	8 (5)
Translation								
AP ulna	7 (20)	3 (8)	а	а	3 (9)	3 (9)	а	а
AP radius	3 (8)	5 (11)	а	а	11 (21)	11 (19)	а	а
Lateral ulna	10 (27)	7 (17)	а	а	9 (23)	11 (24)	а	а
Lateral radius	9 (25)	4 (10)	а	а	9 (26)	13 (23)	а	а
Shortening of radius and/or ulna, %	14 ໌	( <i>'</i>			14 ໌			
Rotation of radius and/or ulna, %	6.2				1.7			

Angulation: radioulnar angulation (AP ulna, AP radius) and sagittal angulation (lateral ulna, lateral radius) presented in degrees as mean (SD). Translation: radioulnar translation (AP ulna, AP radius) and sagittal translation (lateral ulna, lateral radius) presented in percentage of the width of ulna or radius as mean (SD). <sup>a</sup> Translation not relevant because of formation of callus.

No significant differences were found between the AEC group and the AEC + BEC group.