



Fig. E-1  
 A 14.6-year-old boy sustained a Grade-3 radial neck fracture and lateral collateral ligament injury in a fall (**Fig. E-1A**). The fracture was stable following open reduction (**Fig. E-1B**), and at eleven months postoperatively, his clinical examination was notable only for a 5° flexion contracture.

TABLE E-1 Cohort Characteristics*	
Characteristic	
Mean age $\pm$ SD (yr)	8.4 $\pm$ 2.9
Patients <10 years of age (no. [%])	113 (75%)
Male (no. [%])	60 (40%)
Mean BMI $\pm$ SD ( $\text{kg}/\text{m}^2$ ) (n = 115)	18.5 $\pm$ 4.6
Injury mechanism (no. [%])	
Fall	130 (86%)
Sports	21 (14%)
Surgery $\geq$ 3 days postinjury (no. [%])	44 (29%)
Referred to clinic $\geq$ 1 day postinjury (no. [%])	65 (43%)
Duration of follow-up (mo)	
All patients	
Mean $\pm$ SD	13.3 $\pm$ 20.0
Median (IQR)	4.7 (2.0, 12.5)
Patients with final outcome data (n = 131): median (IQR)	6.0 (2.4, 15.6)
*Unless otherwise indicated, n = 151.	

TABLE E-2 Definition of Successful Postoperative Outcome
Active elbow flexion $\geq$ 120°
Flexion contracture <20°
Forearm rotation $\geq$ 90°
At least 45° of both supination and pronation
Absence of osteonecrosis, premature physeal arrest, or neurovascular injury
Heterotopic ossification permitted if no disqualifying motion limitations

TABLE E-3 Definitive Fixation Methods and Unsuccessful Reduction Techniques Attempted Prior to Definitive Procedure					
Failed Fixation Methods	Definitive Fixation Method				Total (N = 151)
	Closed Reduction without Fixation (N = 63)	Closed Pin/Wire (N = 32)	Closed Metaizeau Procedure (N = 10)	Any Open Reduction (N = 46)	
None	63	7	4	11	85
Closed reduction without fixation		25	2	20	47
Other closed procedure			4	13	17
Any open procedure				2	2