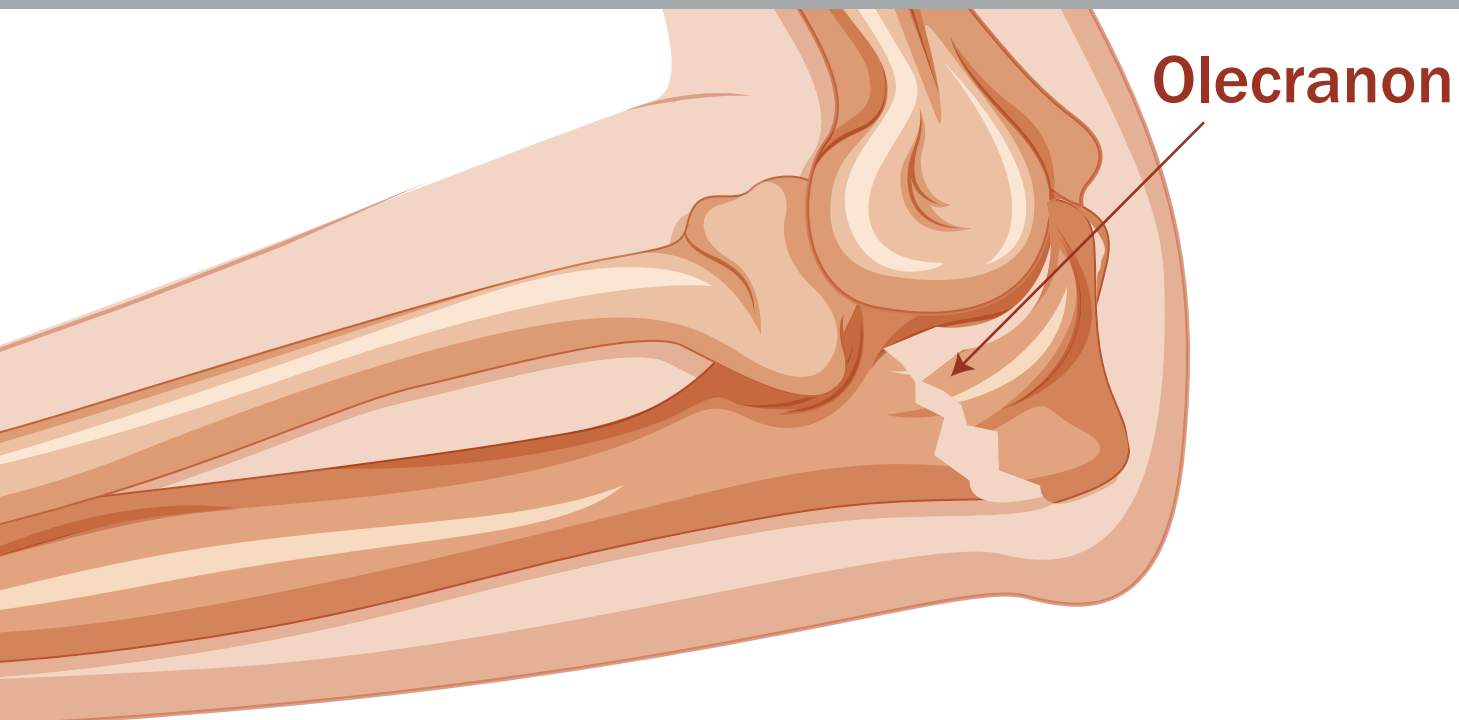


Tension-band wire vs. plate fixation for olecranon fractures

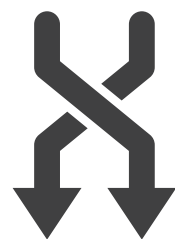


Displaced, stable, non-comminuted olecranon fracture (Mayo type-2A)



67 active patients (16-74 years)

1:1 Randomization



Tension-band wire fixation (34 patients)

Plate fixation (33 patients)

Study Outcomes

at 1-year post-surgery...



	Tension-band wire fixation n = 28	Plate fixation n = 29	Statistical significance p-values	
DASH* score	12.8	8.5	0.315	Primary outcome
Complication rate	63.3%	37.5%	0.042	
Infection	0.0%	12.5%	0.114	Secondary outcomes
Revision surgery	0.0%	9.4%	0.238	
Hardware removal	50.0%	21.9%	0.021	

*Disabilities of the Arm, Shoulder and Hand

Plate fixation is not significantly beneficial over the current gold standard of tension-band wire fixation in active patients with displaced olecranon fractures