

Four-Corner Arthrodesis Verse Proximal Row Carpectomy: A Retrospective Study With a Mean Follow-Up of 17 Years.

Berkhout et al. Journal of Hand Surgery, July 2015

	Proximal Row Carpectomy	Four Corner Fusion
Average Age	40 ± 10	45 ± 12
Flexion/Extension ROM	97° ± 22°	72° ± 34°
Mayo Wrist Score (strength/pain/functionality/ ROM)	67 ± 8	71 ± 12
Complication Rate	13%	55%

This is one of the first, long term comparisons of PRC and 4CF. The data shows that:

- PRC is a viable option for younger patients (it is typically recommended for 60+).
- PRC outperforms the 4CF in ROM.
- There is no significant difference in grip strength or pain (it is often suggested that 4CF outperforms PCR in both).
- 4CF complication rate is 4X higher than PRC.

The authors concludes: “Although modern fixation methods may result in fewer problems of bone union... we think 4CF should be reserved for cases with midcarpal degeneration in which PRC is not possible”

With the Arthrosurface Wrist HemiCAP, PRC’s can now be performed on patients with midcarpal degeneration.