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2018 OTA Boot Camp

Distal Radius Fractures: A Primer

- 1) Patient selection, who do I operate on?
 - a) AAOS guidelines are vague on who, when and how to fix DRF
 - b) As such a patient selection is key
 - (1) Older or low demand patients non-operative treatment is reasonable
 - (a) Casting is still an option!!!
 - (2) Young, or older active patients consider surgery
 - (a) Not good evidence to recommend one form of tx over another but most are now using volar locking plates
 - (b) But other options (ex fix, pins and plaster etc.) are supported by the literature.
- 2) How to maximize results with a volar locking plate (VLP)?
 - a) VLP will not do the reduction for you! You have to apply it to a reduced fracture or use it as a template to reduce the fracture
 - i) Most DRFx respond favorably to ligamentotaxis making VLP just a neutralization device (and a good one for that function)
 - b) But if they don't reduce with traction you need to get them reduced
 - i) Consider accessory incisions and approaches (dorsal or radial)
 - ii) Dorsal approach is safe if done through small incisions
 - (1) Allows for visualization of articular surface
 - (2) Allows for elevation of impacted dorsal lunate facet
- 3) When should I not use a VLP on?
 - a) It is CRITICAL to understand not ALL DRFx can be treated with a VLP!
 - i) In fractures when the volar cortex is not fractured you should likely use a different plate/approach
 - (1) Most commonly this a
 - (a) dorsal shearing injury or an impacted dorsal lunate facet
- 4) When should I use a dorsal bridge plate (DBP)?
 - a) Dorsal bridge plates are a consideration in 3 situations
 - i) Dorsal shearing injury in which the dorsal cortical piece or radial styloid piece is too small for fragment specific buttress plating
 - ii) Multi-trauma situations- I let them WB through the hand and not just be platform WB
 - iii) Soft tissue concerns- open fractures/burns etc.
 - b) You have to be careful not to overuse DBP. Just because it is a "bad" fracture does not mean it needs a DBP. Remember to consider use fragment specific fixation for these "bad" fractures