Complications of distal radius fractures

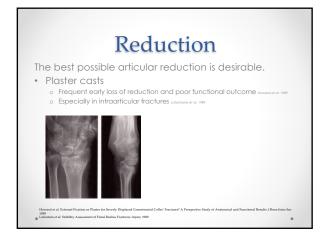
Dr Barbora Bocankova Grand Hôpital de Charleroi – UCL

Complications

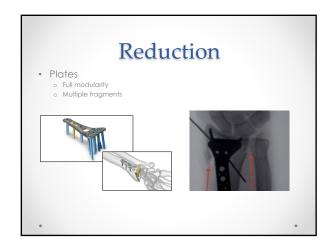
- Reduction errors / loss of reduction
- Plate positioning errors
 - Too proximal / too distalToo radial / too ulnar
- Screw positioning errors
 - o Too long / too short
 - Intraarticular
- Complications associated with material (foreign body)

 - Tendinous lesions: irritation and ruptureNervous lesions

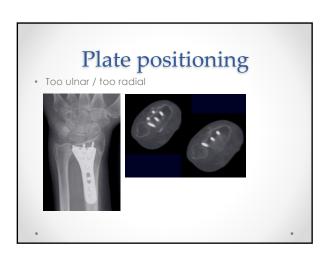
 - Complex regional pain syndrome
 Infection







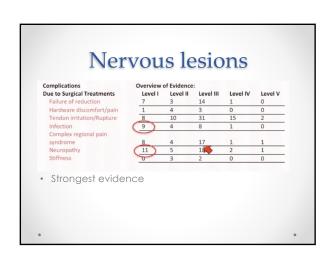


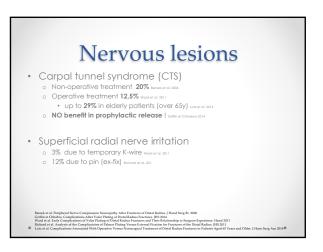


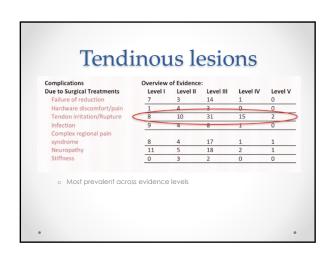


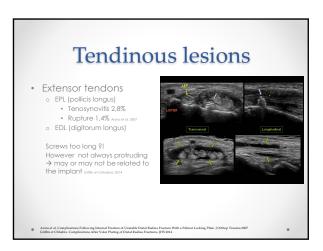


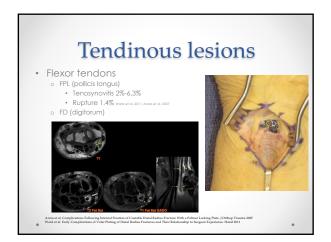


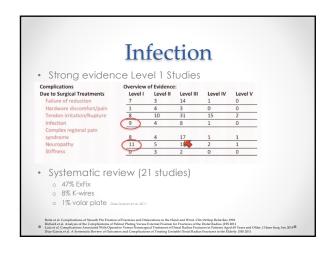












Elderly Systematic review (21 studies – Level 1-4) passagards et al. 2011 Cast immobilization 8% External fixation 20% Volar plating 17% Percutaneous pinning 9% Meta analysis (20 studies - Levels 1-4) connected 2017 Operative group 11,8% vs Non-operative group 8,3% (p=0.008) External fixation 22,5% Dorsal plating 20% Volar locked plating 16,3% Percutaneous pinning 1,2% No significant difference in patient-reported pain and disability (at one year after injury) Lucated 2,2014 Kenter et al. Complication of Disability Fractions in the Bladry: A Symenia Review and Mate analysis. 2017 Later et al. Complication and Disability fractions in the Bladry: A Symenia Review and Mate analysis. 2017 Later et al. Complication of Disability fractions in the Bladry: A Symenia Review and Mate analysis. 2017 Later et al. Complication of Disability fractions in the Bladry: A Symenia Review and Mate analysis. 2017 Later et al. Complication of Disability fractions in the Bladry: A Symenia Review and Mate analysis. 2017 Later et al. Complication of Disability fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry: A Symenia Review and Bladry Fractions in the Bladry Fractions in the Bladry A Symenia Review and Bladry Fractions in the Bladry A Symenia Review and Bladry Fractions in the Bladry A Symenia Review and Bladry Fractions in the Bladry A Symenia Review and Bladry Fractions in the Bladry A Symenia Review and Bladry A Symenia Rev

Risk factors • Early complications • Fall from height • Ipsilateral elbow injury • Late complications • High-volume surgeons • Plate design • Not predictive: • Age and Gender • AO fracture type • Open injury • Ulna fracture • Surgeon specialization • Surgeon years since residency • Median or ulnar nerve injury

Prevention Pronator repair ? No difference in pronation No difference in DASH magneting at st. 2013 Compression glove after surgery Less swelling (p=0,002) Less pain (p=0,0008) Lower DASH score 36,9 vs. 51,2 (p=0,05) Better mobility: full flexion in 81% vs 40% (p=0,02) Less CTS and CRPS thuse at st. 2011

Conclusion Reduction! Adequate plate Specific fragment fixation if necessary Placement of the screws

• Image intensifier intra-operatively

Thank you