

# Management and Outcomes of Scapholunate Interosseous Ligament Injuries

## A Retrospective Review

Eric M Rohman, BA, Julie Adams, MD, Matthew Putnam, MD, Julie Agel, BS



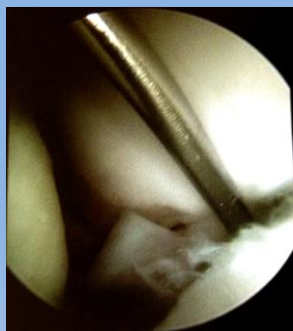
### Objectives

Compare outcomes of acute and chronic surgery

Describe risk factors for surgical failure

In the chronic setting, compare Ligament Reconstruction to Repair/Capsulodesis

Describe injury patterns that lead to surgery in chronic period



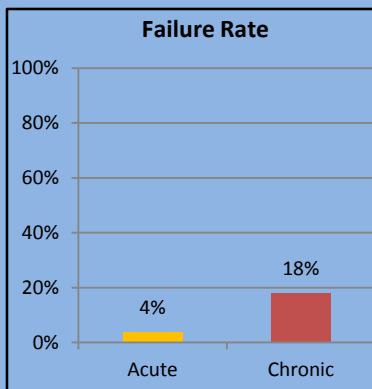
### Methods

Retrospective chart review of 80 patients (82 wrists) who underwent soft-tissue wrist repair/reconstruction.

Exclusion criteria:

- arthrosis / SLAC wrist
- Previous wrist surgery

### Overall Results



### RISK FACTORS FOR FAILURE

#### SIGNIFICANT

- Workers Comp -- Odds Ratio 5.2
- Chronic Setting -- Odds Ratio 5.7

#### TREND

- Smoking – OR 2.6
- Complete Tear (Grade 4) -- OR 3.5

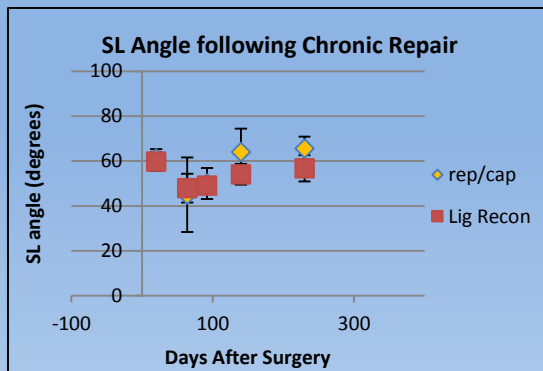
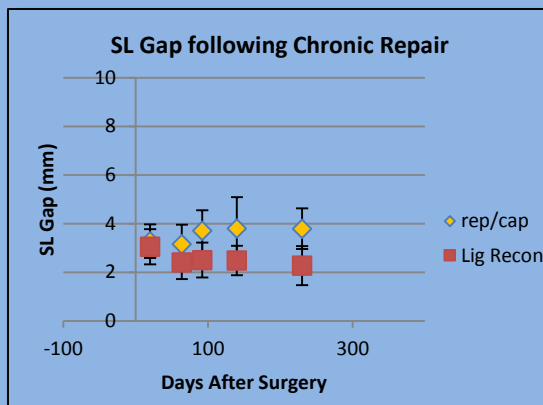
#### NO RELATION TO FAILURE

- Age -- 39 vs 38
- Dominant hand – 12.5% dominant vs 16% non

- Radiographic outcomes similar
- DASH scores similar
- Grip Strength / ROM Similar
- Failure higher in acute setting (18% vs 4%,  $p = 0.034$ )

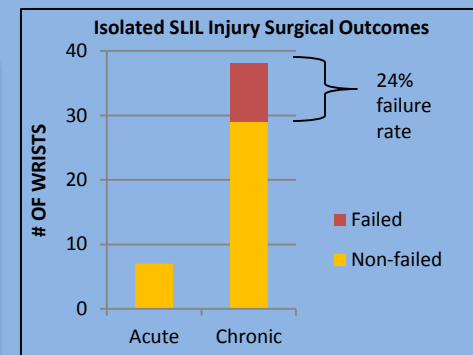
### Chronic Management:

Repair ±Capsulodesis  
Vs. Ligament Reconstruction



- DASH scores similar
- Grip Strength Similar
- Failure trend in Repair/Capsulodesis group (25% vs 11%, Non-significant, CI 0.51–13.88)

### Isolated Injuries



Among isolated injuries receiving surgery:

- 86% of isolated injuries receive chronic surgery
- 82% of chronic surgeries are for isolated injuries

### Conclusions

Failure more likely in chronic setting, and among Workers Comp patients

Ligament Reconstruction is preferable to capsulodesis for chronic SLIL injuries

- Comparable functional outcomes
- Superior Radiographic outcomes
- Trend towards lower failure rate

Isolated injuries more likely to receive surgery in chronic period, despite higher failure rates.

Acute intervention is preferable – use lower early threshold for surgery