Title: Functional outcome of comminuted intra articular distal radius fractures managed by fragment specific fracture fixation.

Aim: To assess functional outcome of comminuted intra articular distal radius fractures managed by fragment specific fracture fixation.

Materials and methods

Inclusion criteria:

1. Age 18-50 years
2. Patients > 50 years with high functional demand
3. Intra articular distal radius fractures with more than 2mm articular step off
4. > 0 degree dorsal tilt
5. 2mm or more of radial shortening
6. Loss of 5 degree or more of radial inclination

Exclusion criteria:

1. Skeletal immaturity
2. Extra articular fractures
3. Undisplaced intra articular fractures
4. Open fractures
5. Pathological fractures
6. Old fractures
7. Associated neurovascular injuries
Study centre: Govt. Kilpauk medical college

Study design: Prospective study

**Results**: 20 patients with comminuted intra articular distal radius fractures were managed with fragment specific fracture fixation and were assessed with Gartland and Werley scoring system. 15 patients (75%) had excellent results and 5 patients (20%) had good results.

**Conclusion**: We conclude that fragment specific fracture fixation for distal radius fractures gives excellent outcome and using combinations of low profile plates in comminuted intra articular distal radius fractures is a very good treatment option.

**Keywords**: Comminuted intra articular distal radius fractures, fragment specific fracture fixation, low profile plates.