

특강 II

Reconstructive Procedure of Elbow Joint

-Semiconstrained Total Elbow Arthroplasty-

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arthroplasty - resection, functional, interposition, debridement,
replacement

final goal - pain relief
normal function (ADL)
reasonable stability

final outcome - instability
weakness
reankylosis

arthrodesis - What is the functional position for the elbow joint ?

resection arthroplasty - only indicated at the uncontrollable infection

interpositional arthroplasty - young person
post-traumatic arthritis
the result of replacement arthroplasty is
unpredictable

indication of replacement arthroplasty

incapacitating pain
loss of motion

choice of joint implant

based on . extend and etiology of disease process
. specific needs of the patient
. experience of the surgeon

influenced by . the degree of pain
. the amount of joint instability
. the limitation of motion

total elbow replacement arthroplasty

nonconstrained - capitellocondylar, London, Kudo, Hingeless, Souter, Pritchard

. young patient
. less activity level
. strong supracondylar column
. adequate ligament
. nontraumatic
. stage III rheumatoid arthritis

semiconstrained - Mayo-Coonrad, Pritchard, Triaxial, Arizona

. old patient
. more activity level

- .weak supracondylar column
- .inadequate ligament
- .traumatic
- .late stage III rheumatoid arthritis

implant selection

- .degree of disease
- .bone stock
- .degree of instability
- .patient expectation

contraindication of replacement

- .infected joint
- .arthrodesis
- .paralysis of the biceps or triceps
- .severe joint contraction

surgical technique

- exposure : posterolateral approach
 - identify the ulnar nerve
 - triceps reflected in continuity
- ulnar preparation : center of ulnar component
 - flattening of olecranon notch
 - making suture holes for firm apposition of the triceps
- humeral preparation : visualization of both supracondylar column
 - shifting alignment stem slight laterally
- implant insertion : assembly both component

SUMMARY

- .total elbow replacement arthroplasty : incremental improvement
- .semiconstrained device broadens the indications for joint replacement
- .avoidance of complications is achieved by carefully planning and meticulous technique