

Fracture dislocation of the elbow

Lasse Birkelund, OUH

AOT advanced april 2022

Disclosure: No potential conflicts of interest

Faculty: Lasse Birkelund, OUH

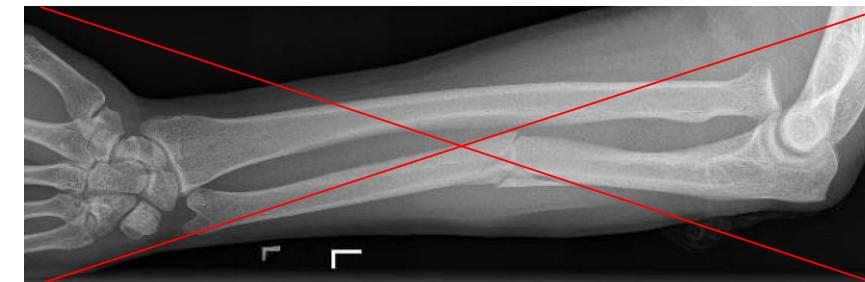
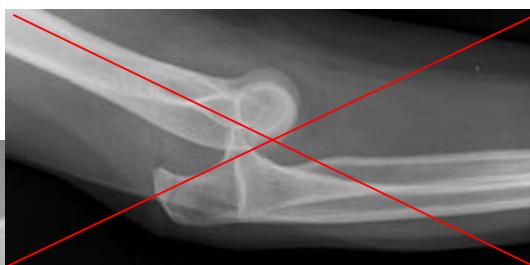
I have no financial relationships with commercial entities
that produce health-care related products.

Afgrænsning – tungen lige i munden



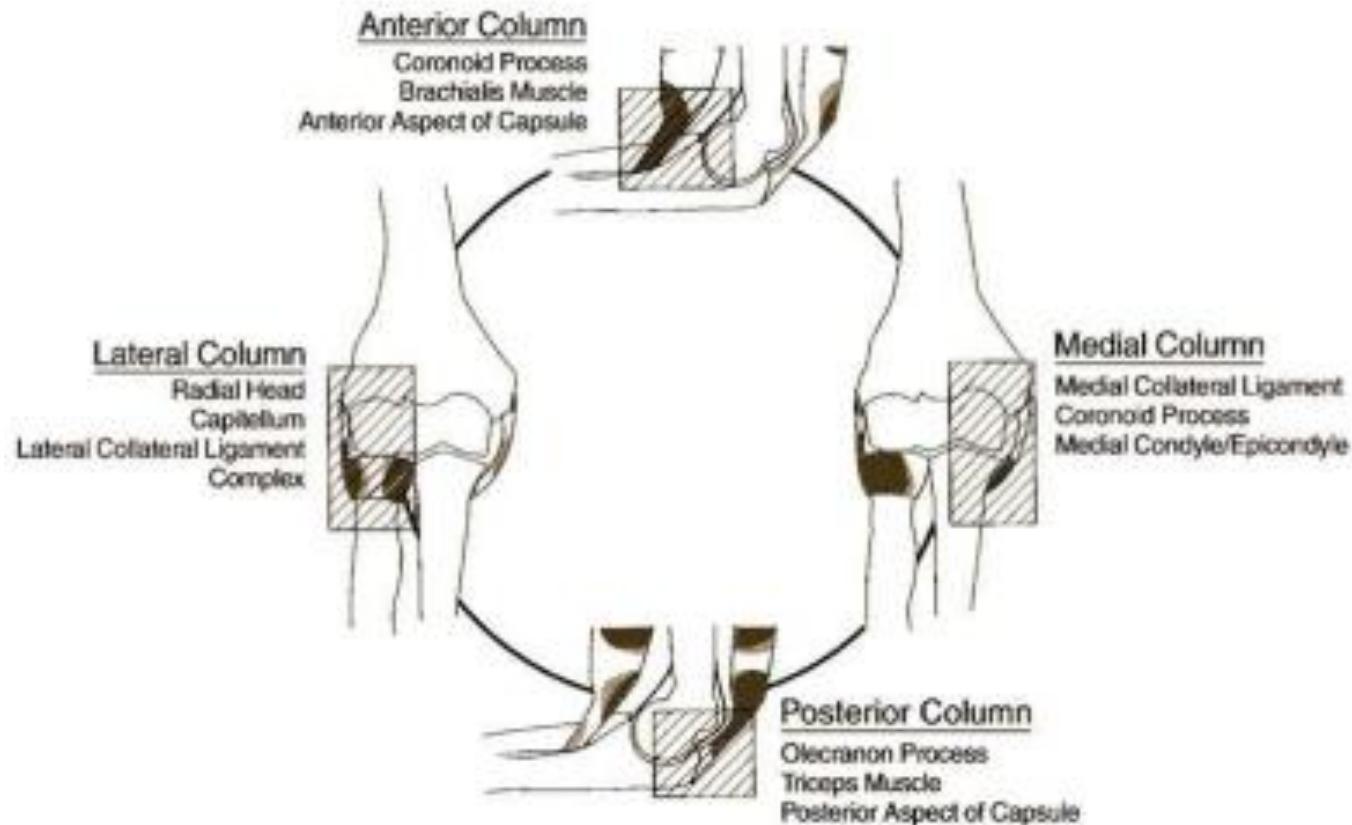
AO

Afgrænsning – tungen lige i munden



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Albueinstabilitet

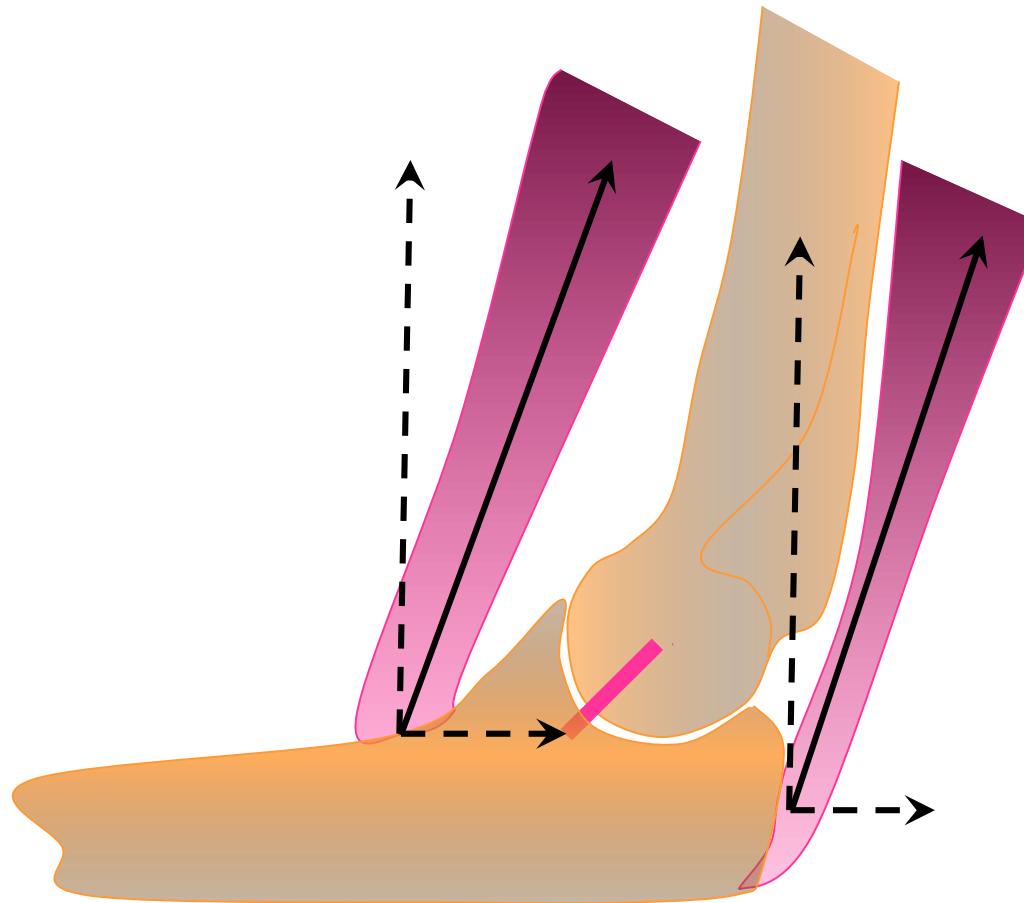


Kombination af skade:

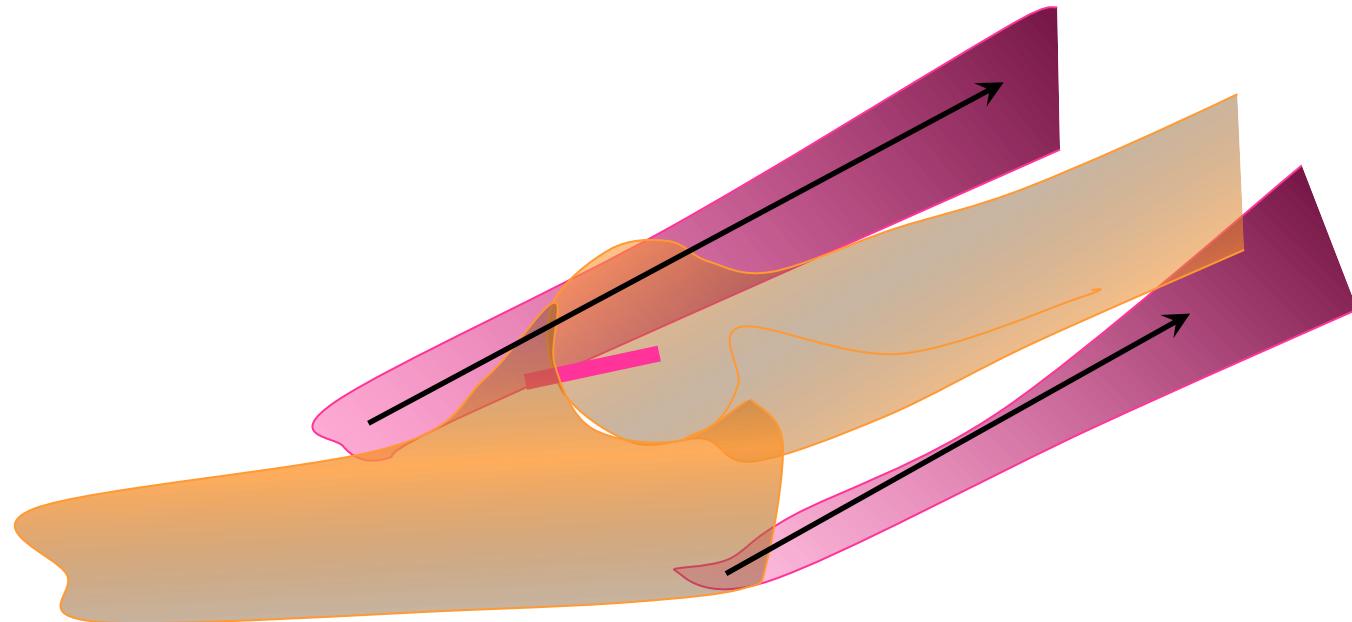
Ossøs
Ligamenter
Kapsel
Muskler

Deformerende kræfter

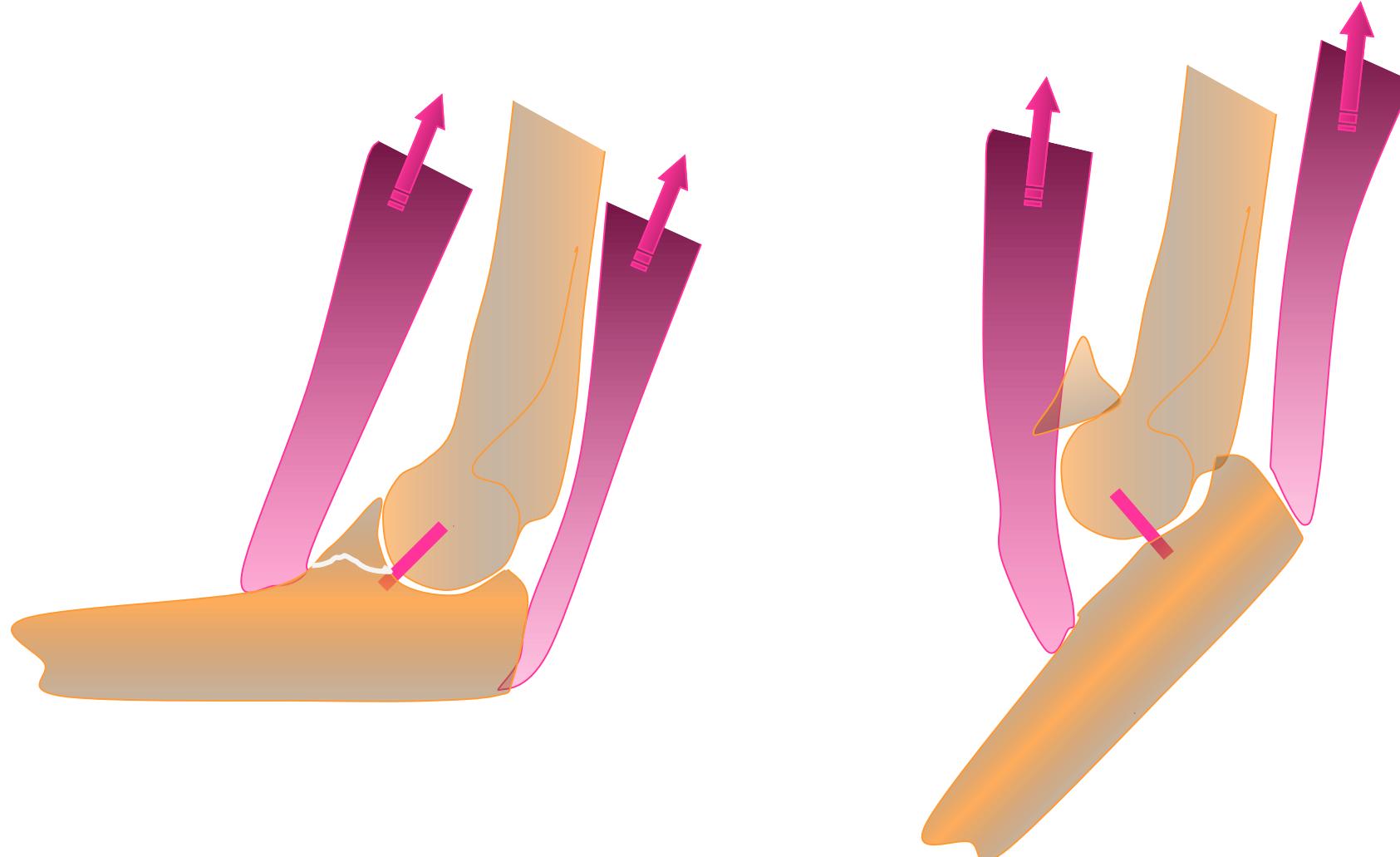
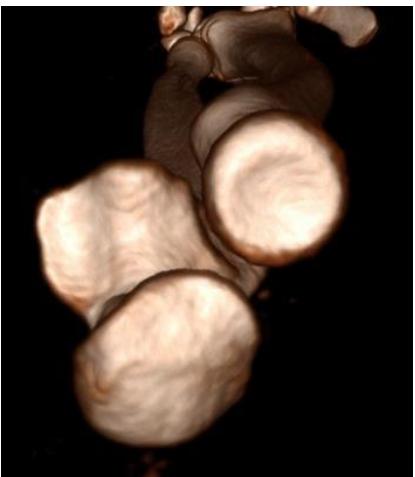
1. Posterior
2. Kranielt



Max instabilitet i extension

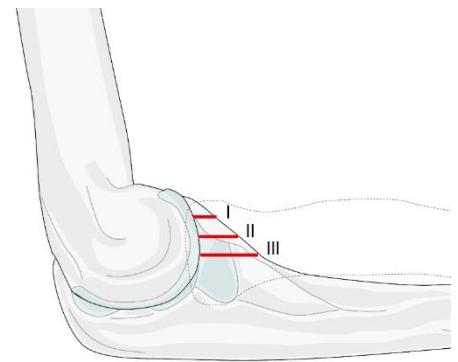


Axial instabilitet med forvægsskade

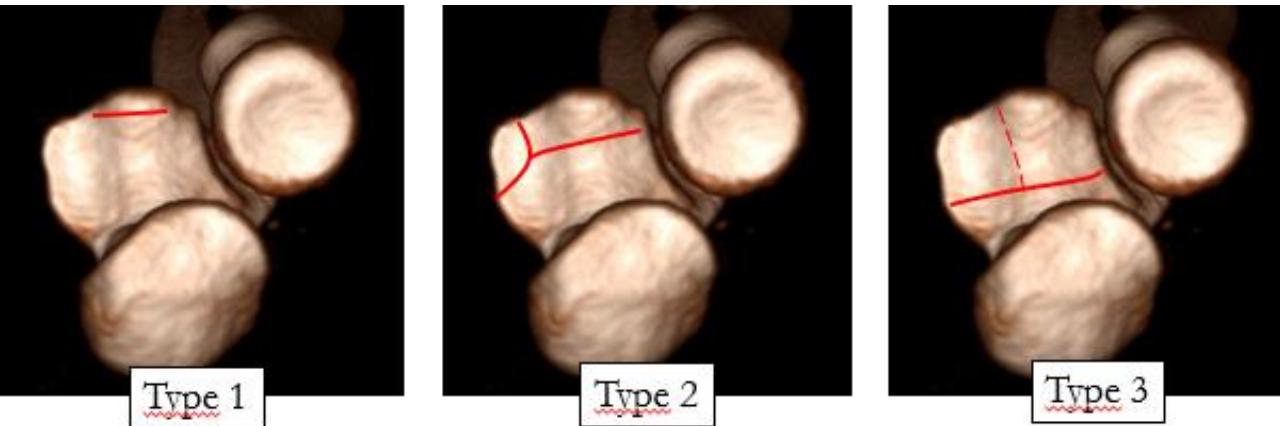


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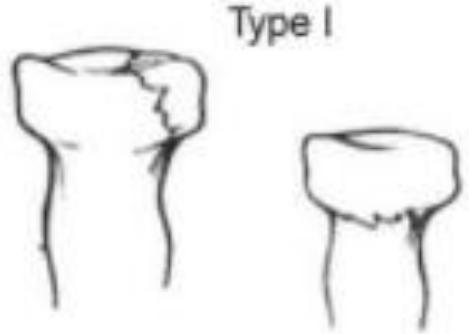
Coronoid



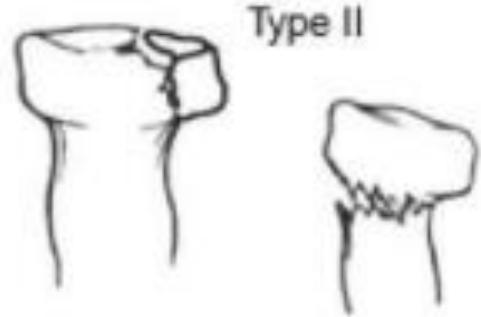
1. Tip
2. Intermediate Subklass
3. Base



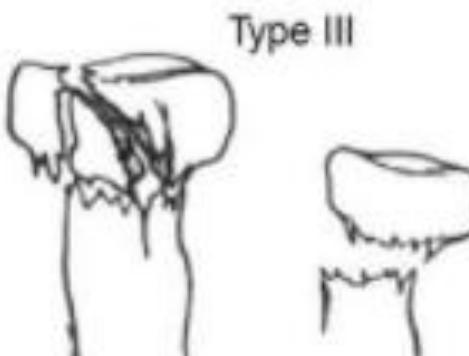
Caput radii



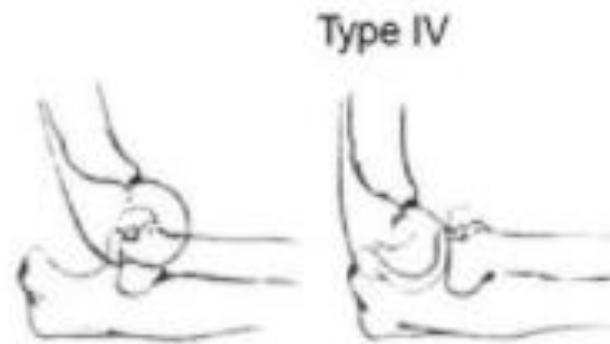
Type I



Type II



Type III

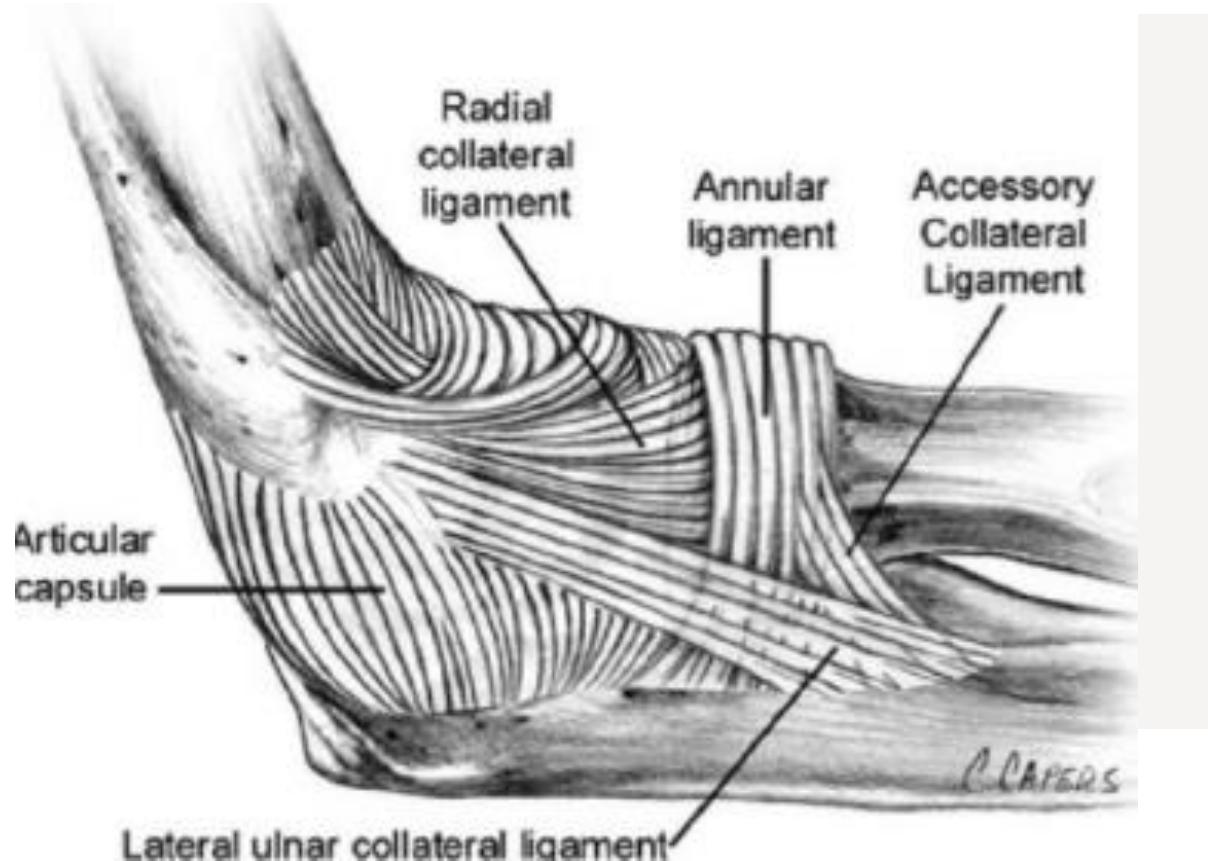


Type IV

Husk at der ikke må være rotationsdeficit

Frakturlux = Mason IV

Albueinstabilitet - ligamentær



LCL

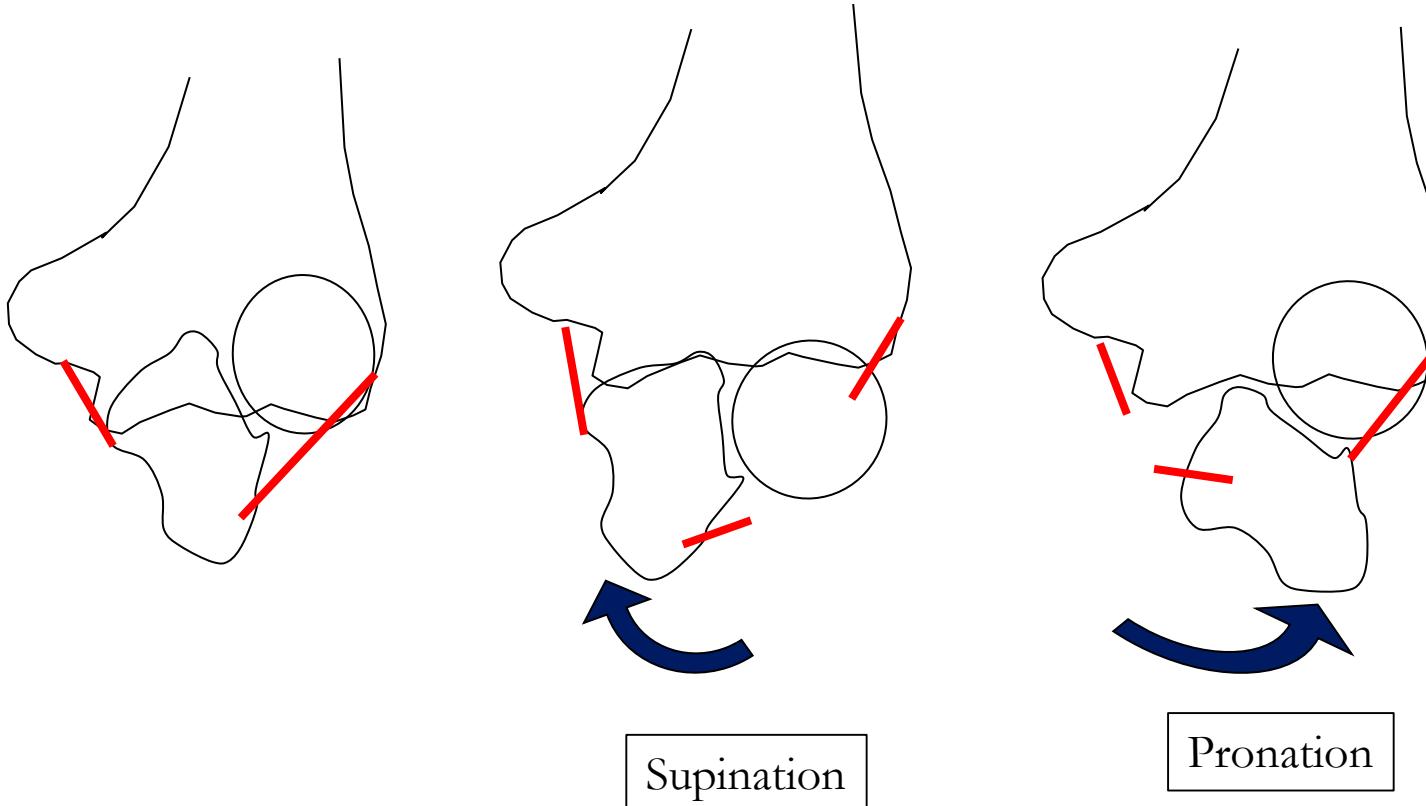
- LUCL
 - Beskytter varus + ER
- Annulare
 - PRUJ

MCL

- Valgus stress

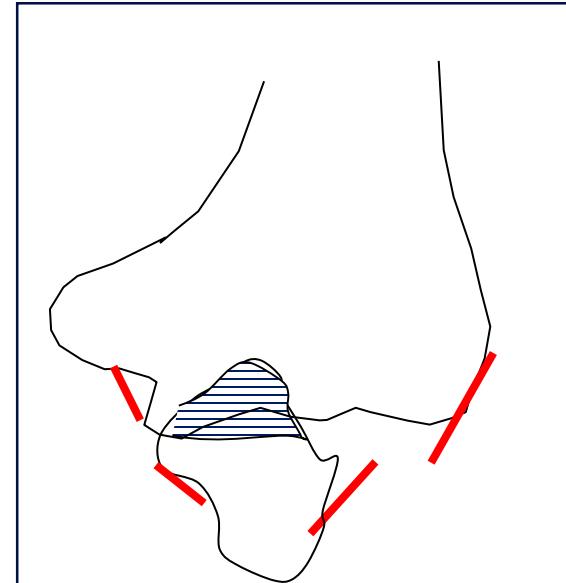
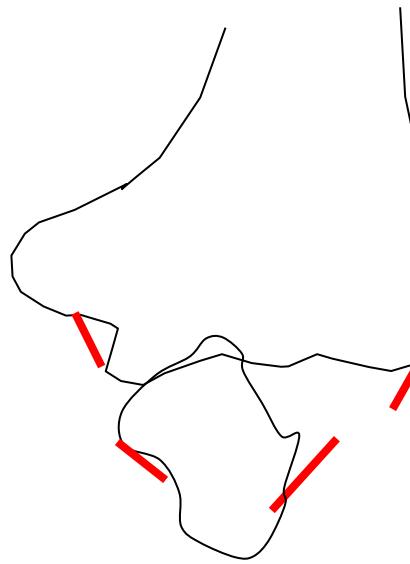
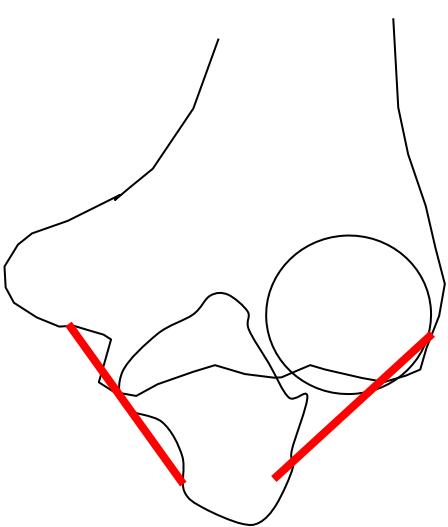
Kollaterale ligamenter – rotations stabilitet

Forhindrer underarmen i at rottere ud af trochlea



Kombinationen af skader

Tab af ligamenter og forvæg skaber axial instabilitet



Terrible triad

De 4 slyngler



Terrible triad



Varus postmed



Monteggia
variant



Transolecранон

Terrible triad

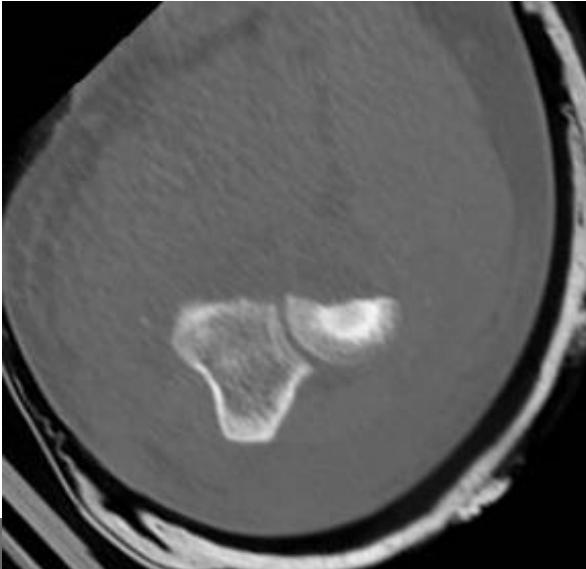


Valgusskade

- Caput radii
- Coronoid
- Laterale ligamenter
 - +mediale

Albuen reponeres
CT scanning

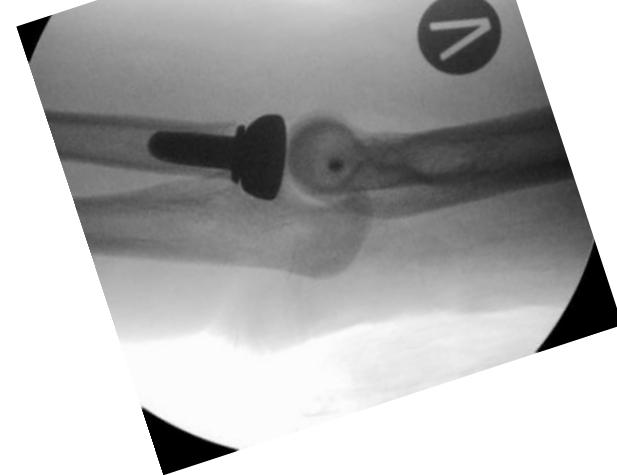
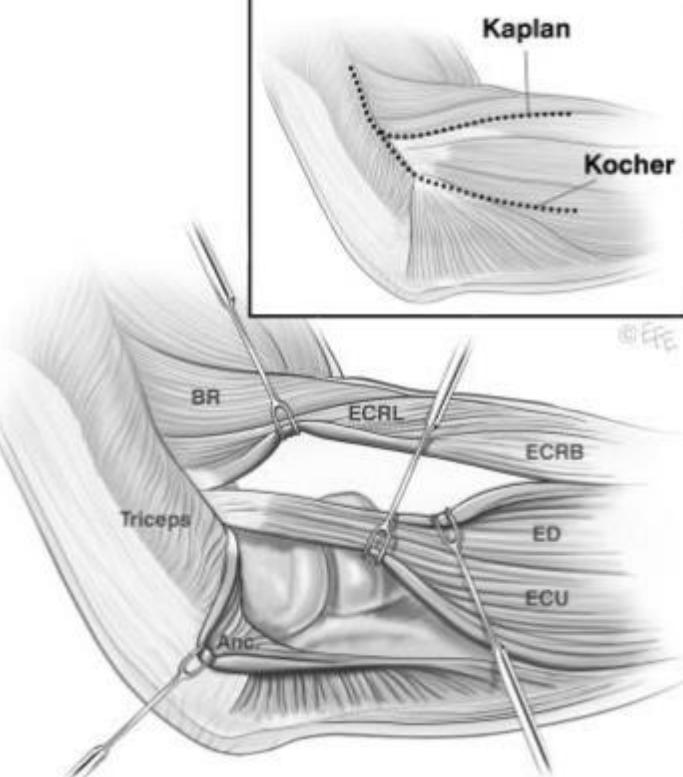
Terrible triad



Mason IV, > 3 stykker
Type 1 coronoid

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Terrible triad



Behandling

- Caput radii
 - Fix/erstat
- Coronoid
 - Fix (sutur, skruer, ORIF)
- Laterale ligamenter
 - Reinserer
- Test

Varus postmed

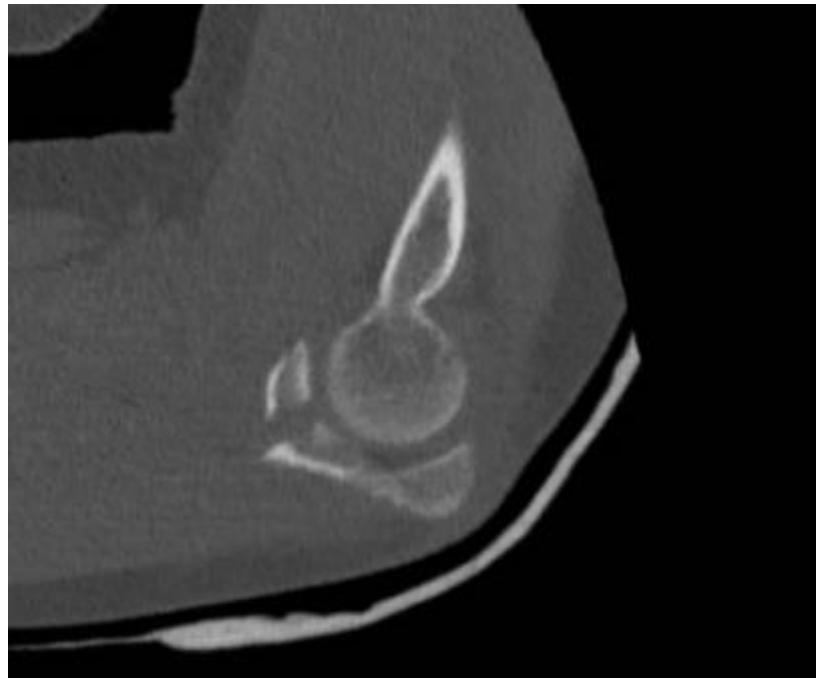


Varusskade

- Caput radii intakt
- Coronoid
- Laterale ligamenter

Albuen reponeres
CT scanning

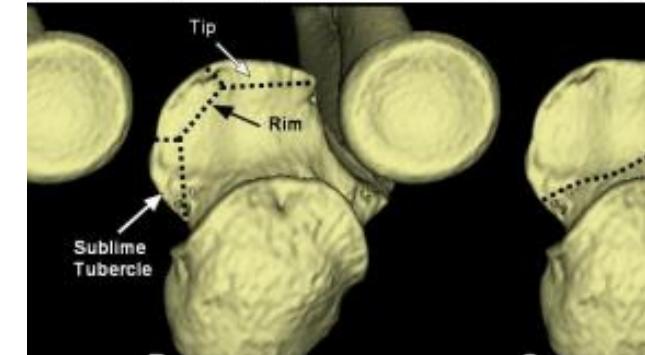
Varus postmed



Type 2 coronoid

- O'Driscoll 2.2

O'Driscoll Coronoid Fracture Classification		
Fracture	Subtype	Description
Tip	1	≤2 mm of coronoid height
	2	>2 mm of coronoid height
Anteromedial	1	Anteromedial rim
	2	Anteromedial rim and tip
	3	Anteromedial rim and sublime tubercle (± tip)
Basal	1	Coronoid body and base
	2	Transolecranon basal coronoid fracture



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Varus postmed



Behandling

- Coronoid
 - Fix
 - Test
- Laterale ligamentær
 - Reinserer

AO

Monteggia variant

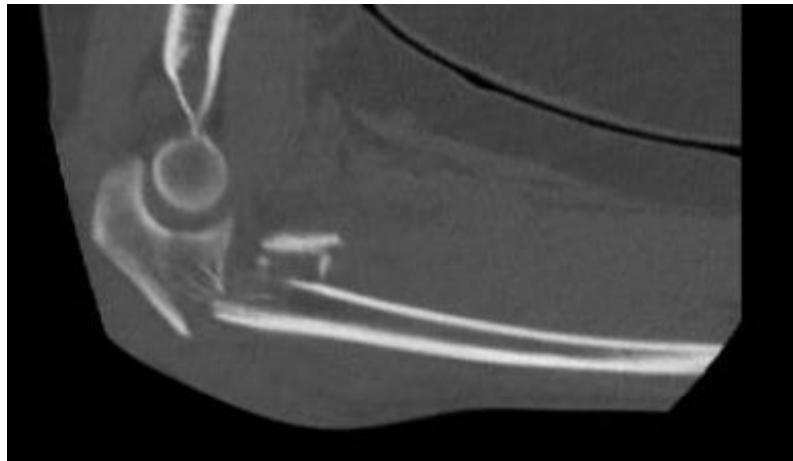


- Caput radii
- Komminut ulna
- PRUJ inkongurent

Albuen reponeres
CT scanning

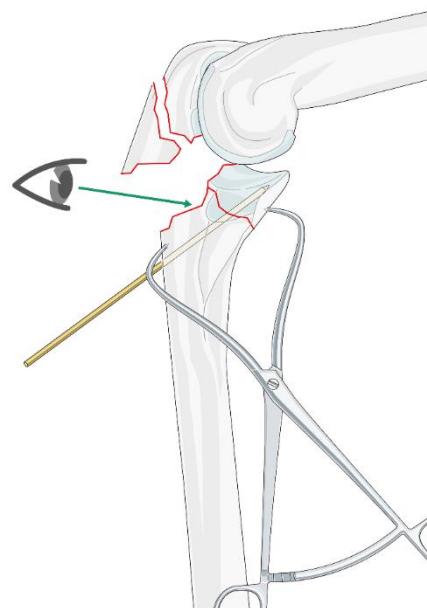
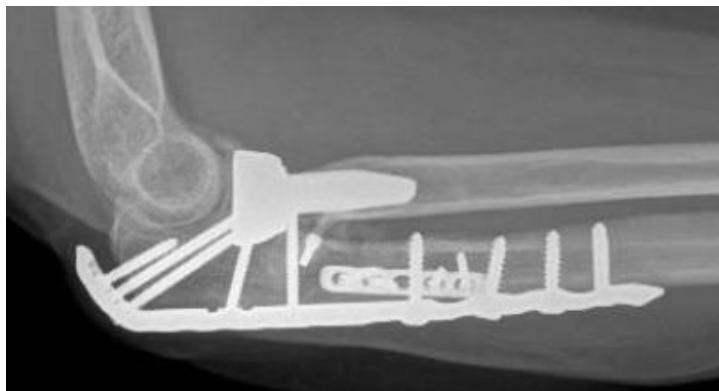


Monteggia variant



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Monteggia variant



Behandling

- Anatomisk ORIF af Ulna
- Caput radii
 - Fix/erstat
- Test

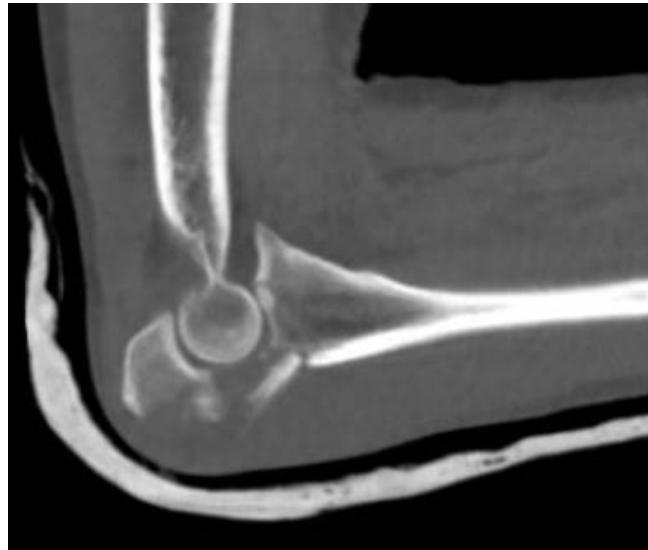
Transolecranon



- Caput radii +/-
- Komminut ulna
- PRUJ kongurent

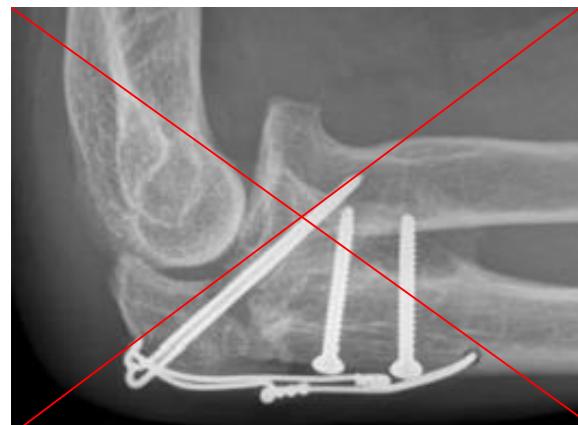
Albuen reponeres
CT scanning

Transolecranon



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Transolecranon



Behandling

- Anatomisk ORIF af Ulna
- Caput radii
- Test

Do's and don'ts med frakturluksationer

Do's

CT skanning

Operer så du er tilfreds

Husk ex-fix ved instabilitet

Don'ts

Skab mere instabilitet

Overvurder egne evner



Take-home messages

Pas på de 4 slyngler

Reponer og skan frakturerne

Operer på både knogle og ligamenter

Gør ikke noget der skaber instabilitet

Spørgsmål?