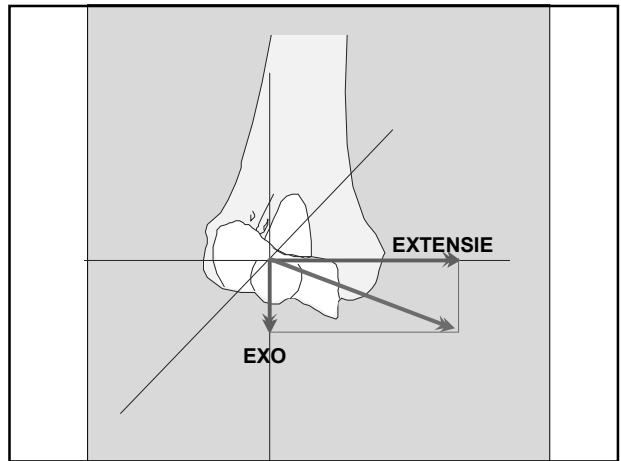
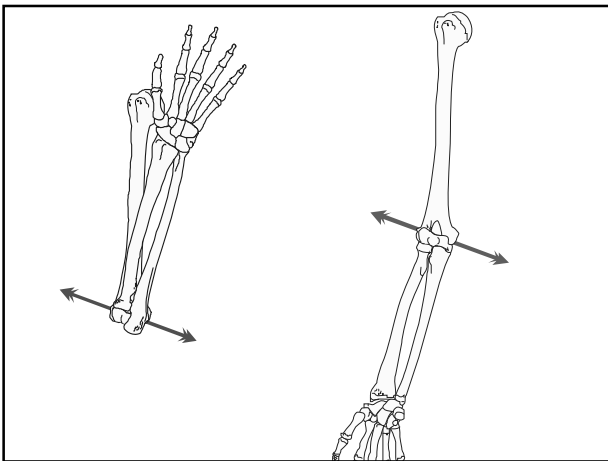


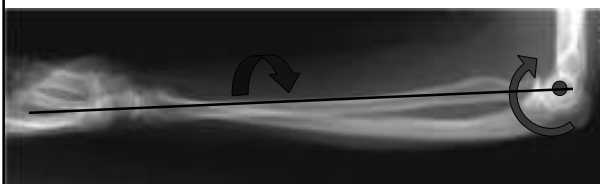
**DE ONDERARM:
EEN GESLOTEN KINEMATISCHE KETEN**

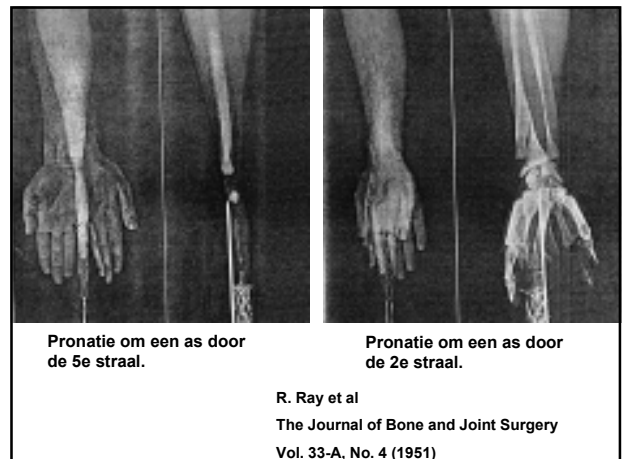
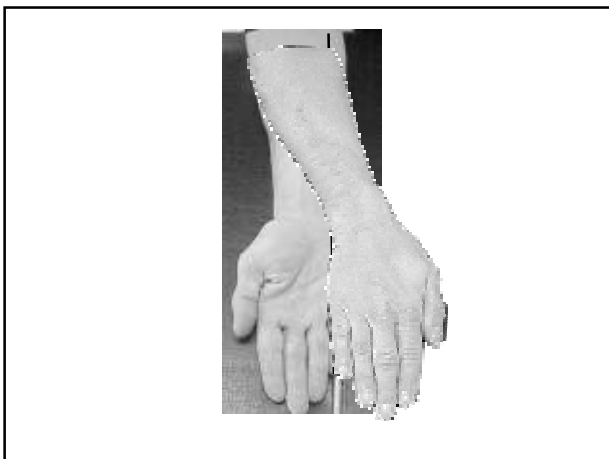
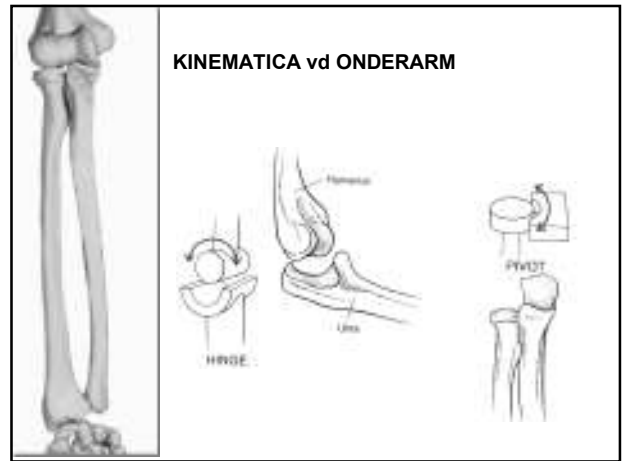
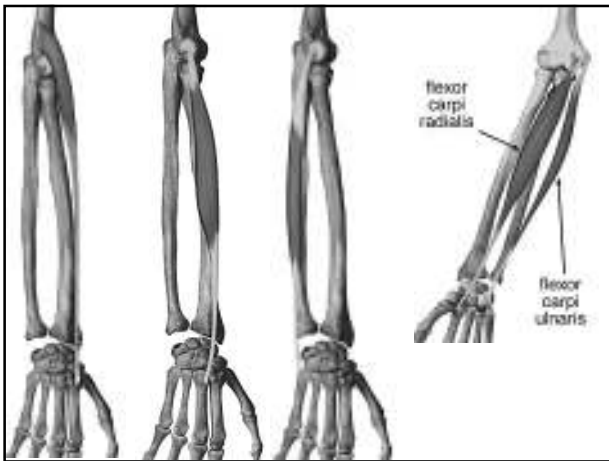
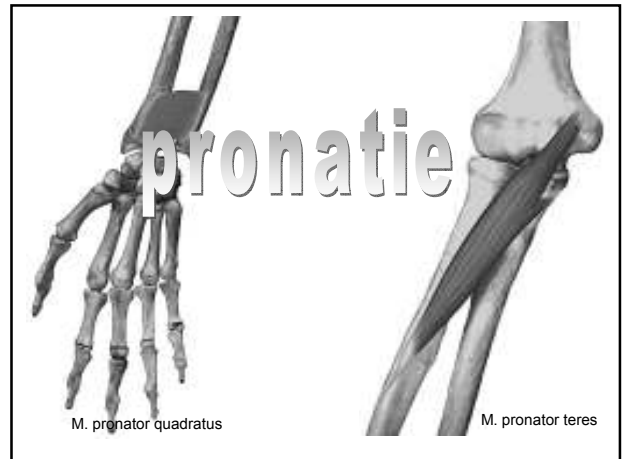
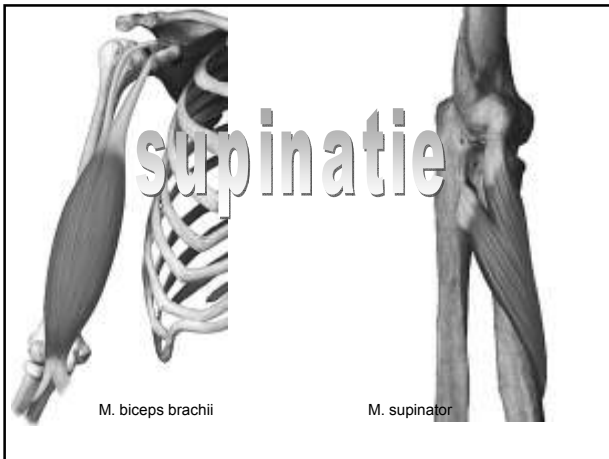


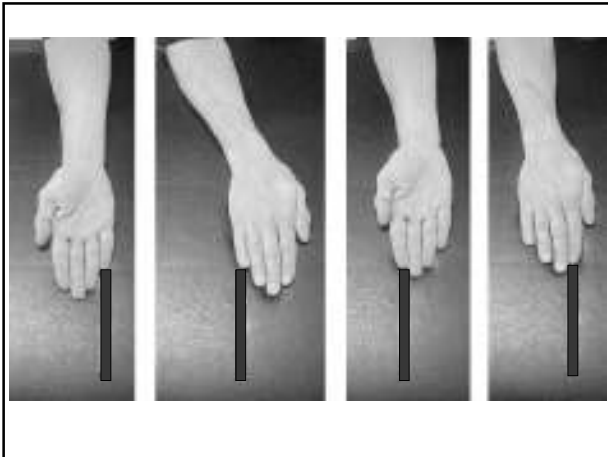
Aad Lagerberg



Bewegingsmogelijkheden van de onderarm







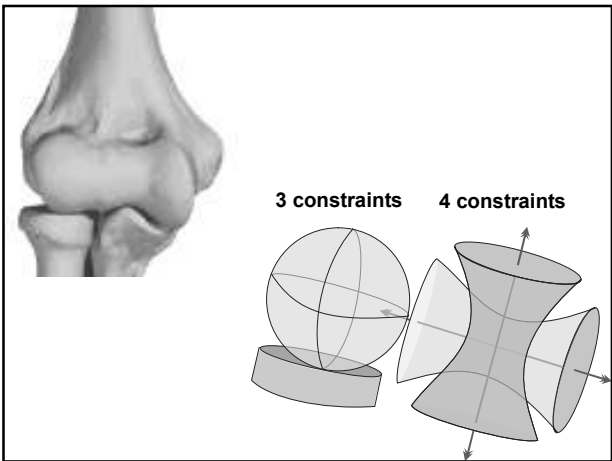
**DE ONDERARM:
EEN GESLOTEN KINEMATISCHE KETEN**

Bij een drie-dimensionale analyse:

Bij een twee-dimensionale analyse:

$DF = 3 \cdot (N-1) - \sum C$

DF KETEN = 3
Aantal elementen (N-1) = 2
DF elementen (6.N-1) = 12
Constraints door verbindingen ($\sum C$) = 9



5 constraints ?

3 constraints 4 constraints

12 12

