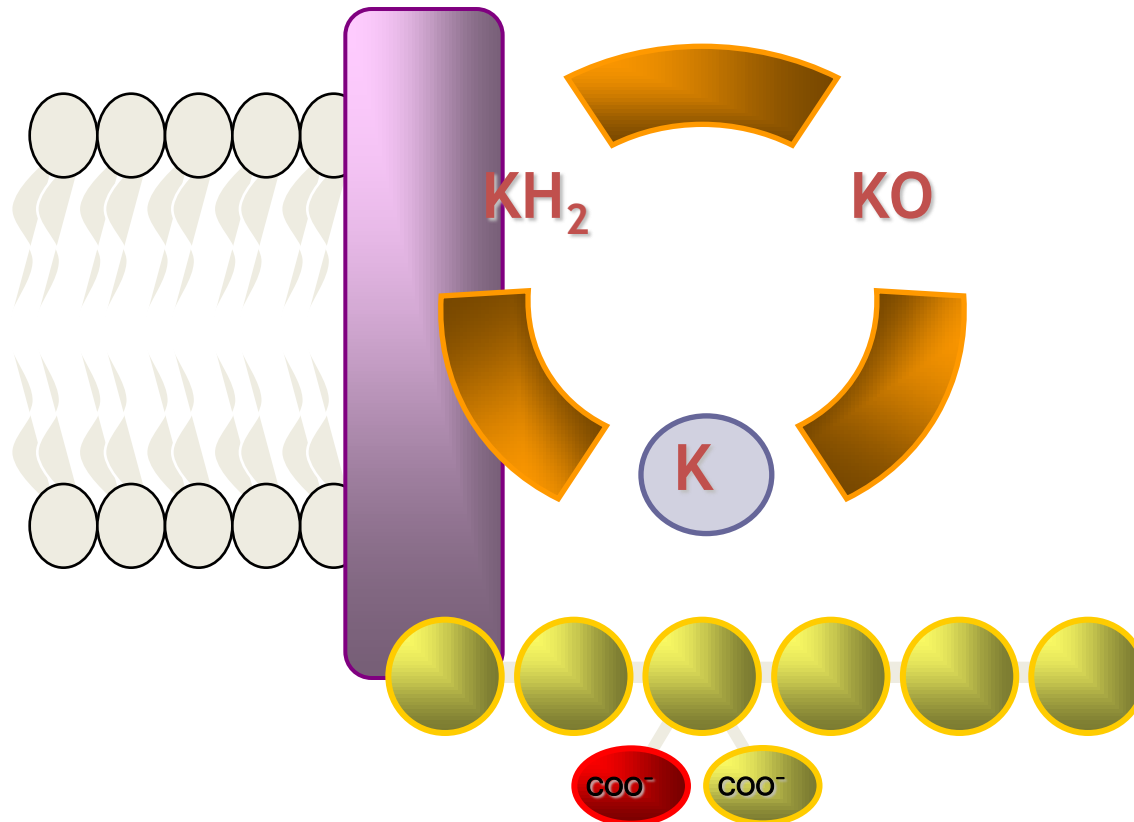
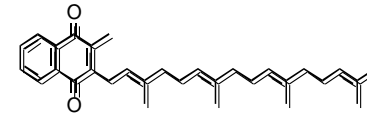
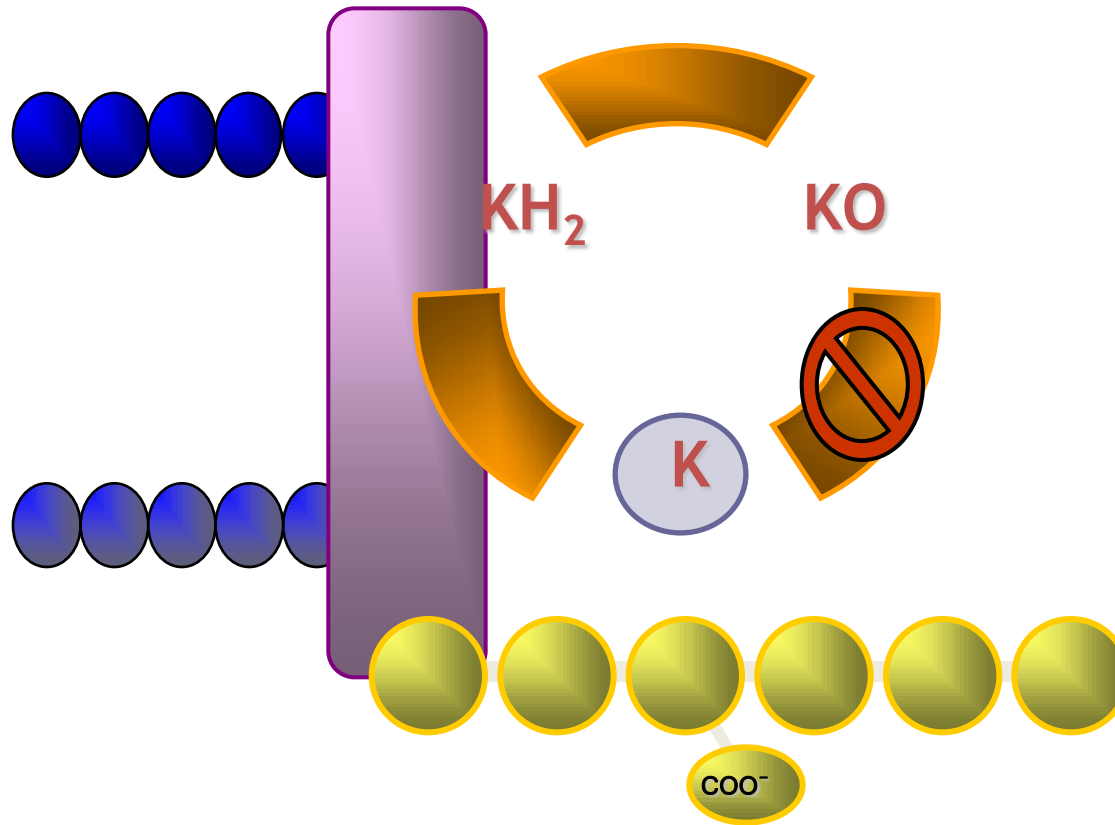
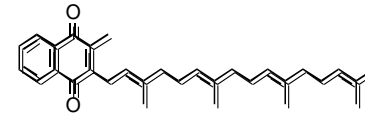


Function of vitamin K



Interference with vitamin K-metabolism

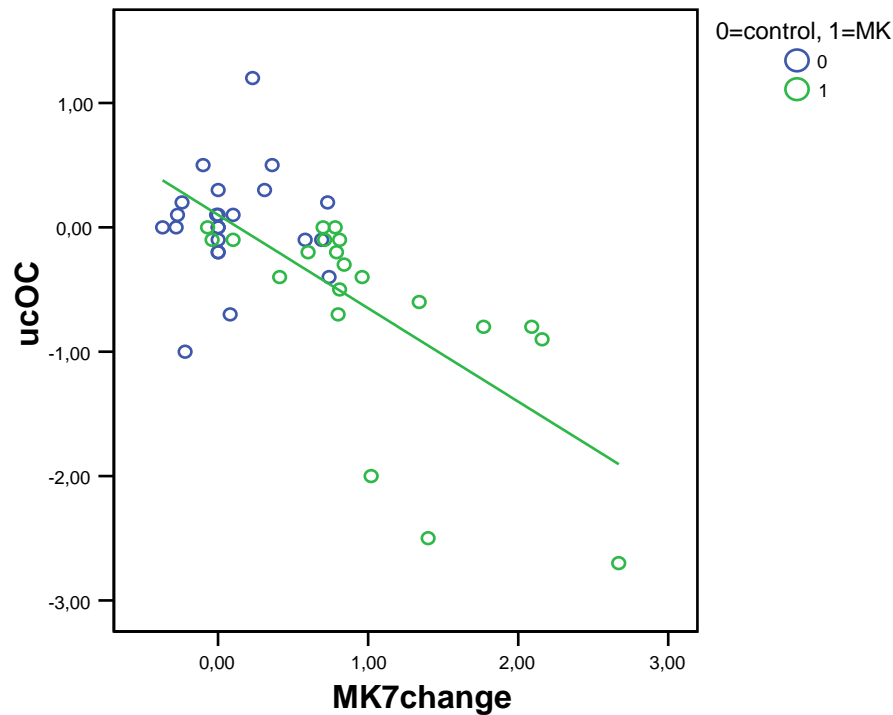


Vitamin K

Not just a coagulation vitamin

- Haemostasis (regulated by Vitamin K1)
 - (procoagulant proteins Factors II, VII, IX, X)
 - (anticoagulant proteins C and S)
- The regulation of mineralization of bones (regulated by Vitamin K2)
 - (Osteocalcin)
- The prevention of inappropriate mineralization in cartilage and blood vessels (regulated by Vitamin K2)
 - (Matrix Gla protein)

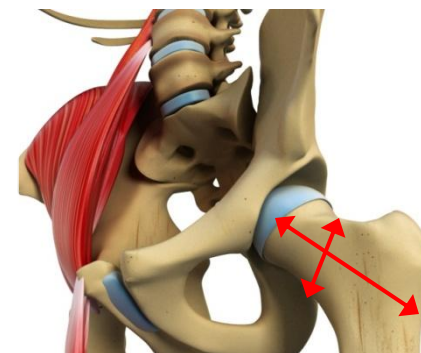
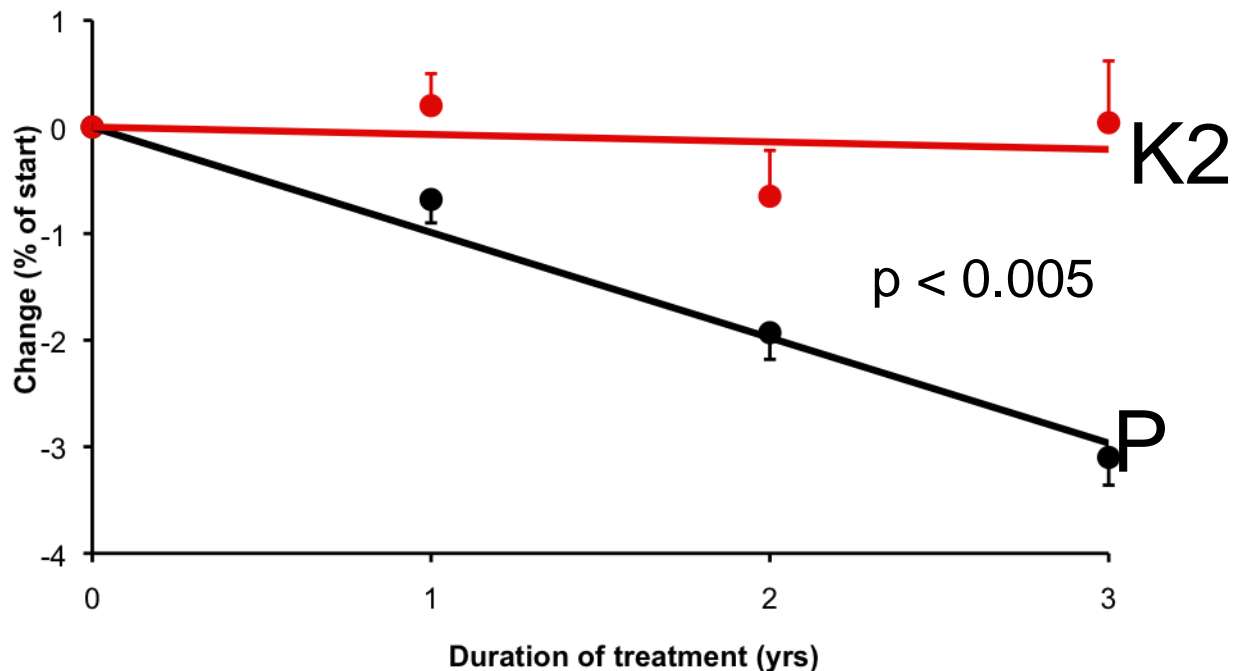
Serum MK7 / Osteocalcin carboxylation



$R^2 = 0.45$
 $P < 0.001$

Osteo-K2 study

- Bone strength



- No loss of bone strength

- Improving BMC and FNW
- Improving ucOC levels

Interpretation of dose finding study: Risk reduction in hip fractures

Szulc et al, 1993 J Clin Inv

