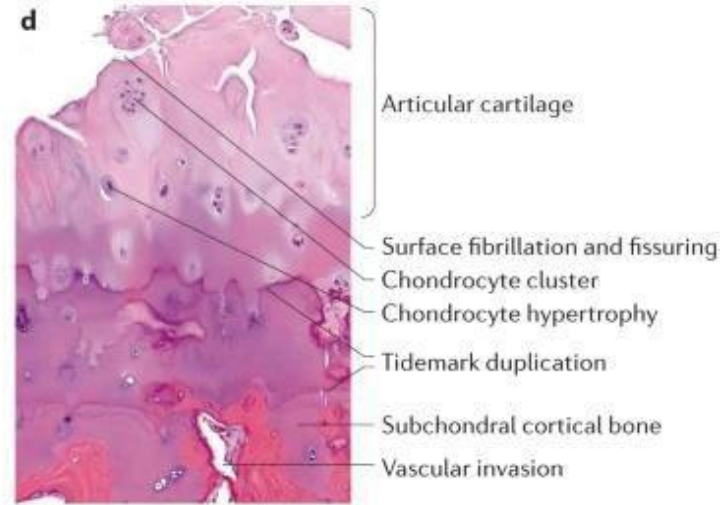
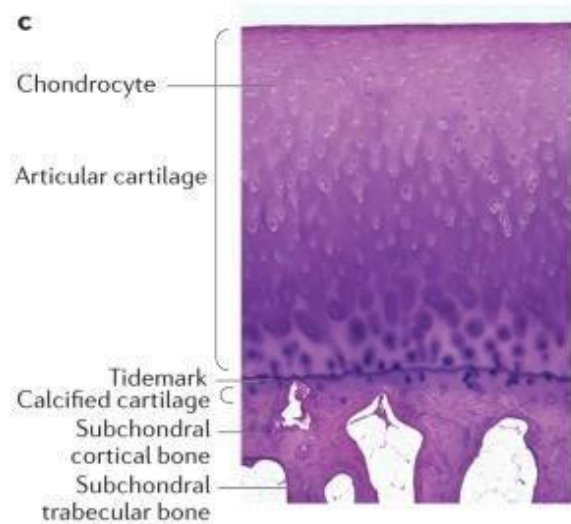
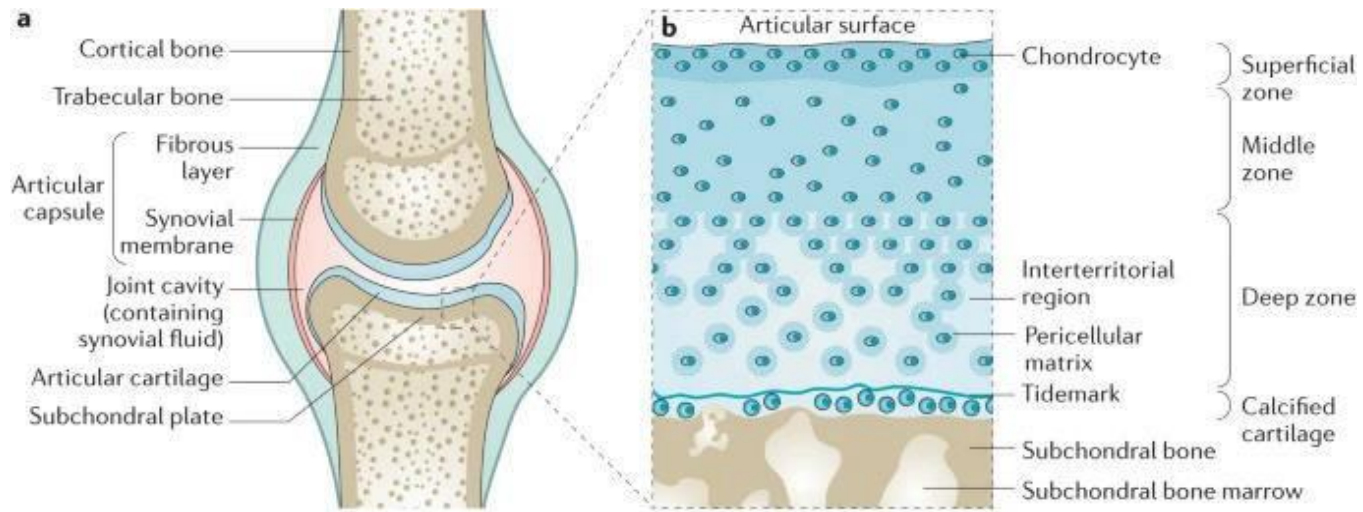


# **OSTEOARTHRITIS & GOUT**

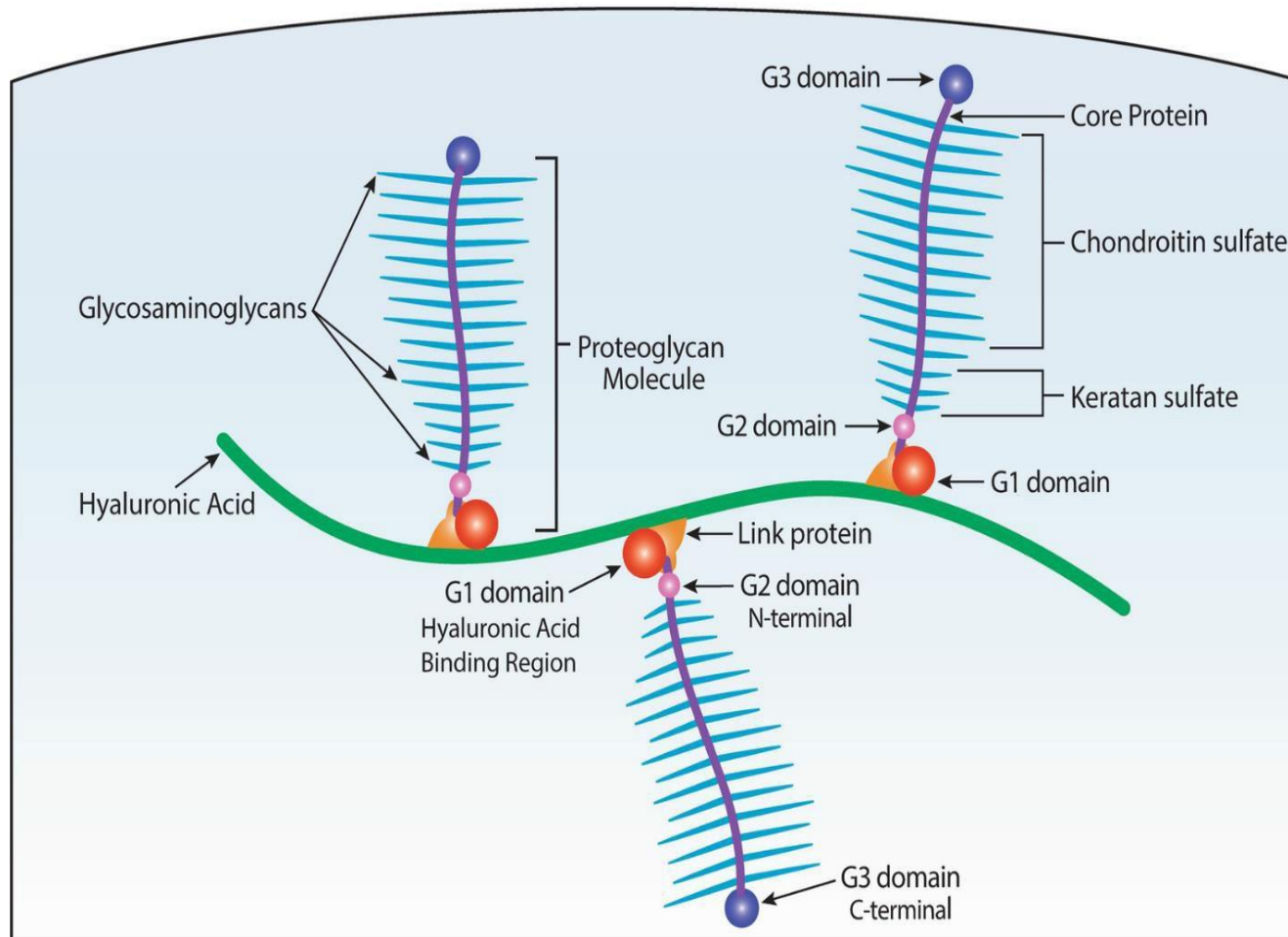
**Presented by: Prof. Sultan Almogairen**

## Objectives:

1. Definition and epidemiology
2. Pathology
3. Clinical Presentation
4. Management



## Articular Cartilage Aggrecan Molecule















Intervention	Joint		
	Hand	Knee	Hip
Topical nonsteroidal antiinflammatory drugs			
Topical capsaicin			
Oral nonsteroidal antiinflammatory drugs			
Intraarticular glucocorticoid injection			
Ultrasound-guided intraarticular glucocorticoid injection			
Intraarticular glucocorticoid injection compared to other injections			
Acetaminophen			
Duloxetine			
Tramadol			
Non-tramadol opioids			
Colchicine			
Fish oil			
Vitamin D			
Bisphosphonates			
Glucosamine			
Chondroitin sulfate			
Hydroxychloroquine			
Methotrexate			
Intraarticular hyaluronic acid injection	(First carpometacarpal)		
Intraarticular botulinum toxin			
Prolotherapy			
Platelet-rich plasma			
Stem cell injection			
Biologics (tumor necrosis factor inhibitors, interleukin-1 receptor antagonists)			

Strongly recommended
Conditionally recommended
Strongly recommended against
Conditionally recommended against
No recommendation

Intervention	Joint		
	Hand	Knee	Hip
Exercise			
Balance training			
Weight loss			
Self-efficacy and self-management programs			
Tai chi			
Yoga			
Cognitive behavioral therapy			
Cane			
Tibiofemoral knee braces		(Tibiofemoral)	
Patellofemoral braces		(Patellofemoral)	
Kinesiotaping	(First carpometacarpal)		
Hand orthosis	(First carpometacarpal)		
Hand orthosis	(Other joints)		
Modified shoes			
Lateral and medial wedged insoles			
Acupuncture			
Thermal interventions			
Paraffin			
Radiofrequency ablation			
Massage therapy			
Manual therapy with/without exercise			
Iontophoresis	(First carpometacarpal)		
Pulsed vibration therapy			
Transcutaneous electrical nerve stimulation			

Strongly recommended
Conditionally recommended
Strongly recommended against
Conditionally recommended against
No recommendation

Gout

## Objectives:

1. To know the clinical presentation and management.



















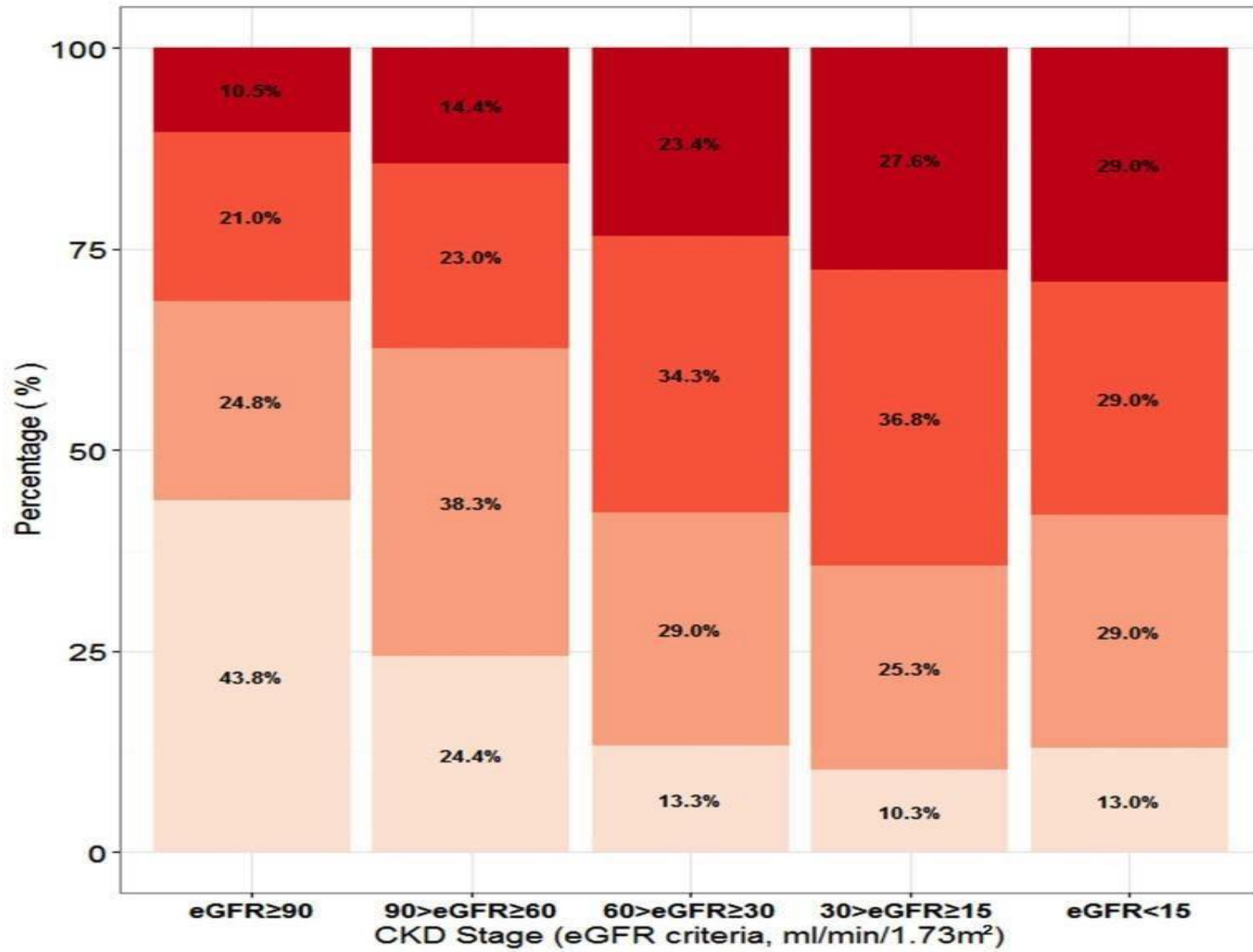
mg/dL	$\mu\text{mol/L}$	mmol/L	Diagnosis
5 or less	300 or less	.30 or less	Safe
5 – 6	300 – 350	.30 – .35	Good
6 – 7	350 – 400	.35 – .40	Warning
Over 7	Over 400	Over .40	Danger

### Vital Uric Acid Levels Conversion Chart

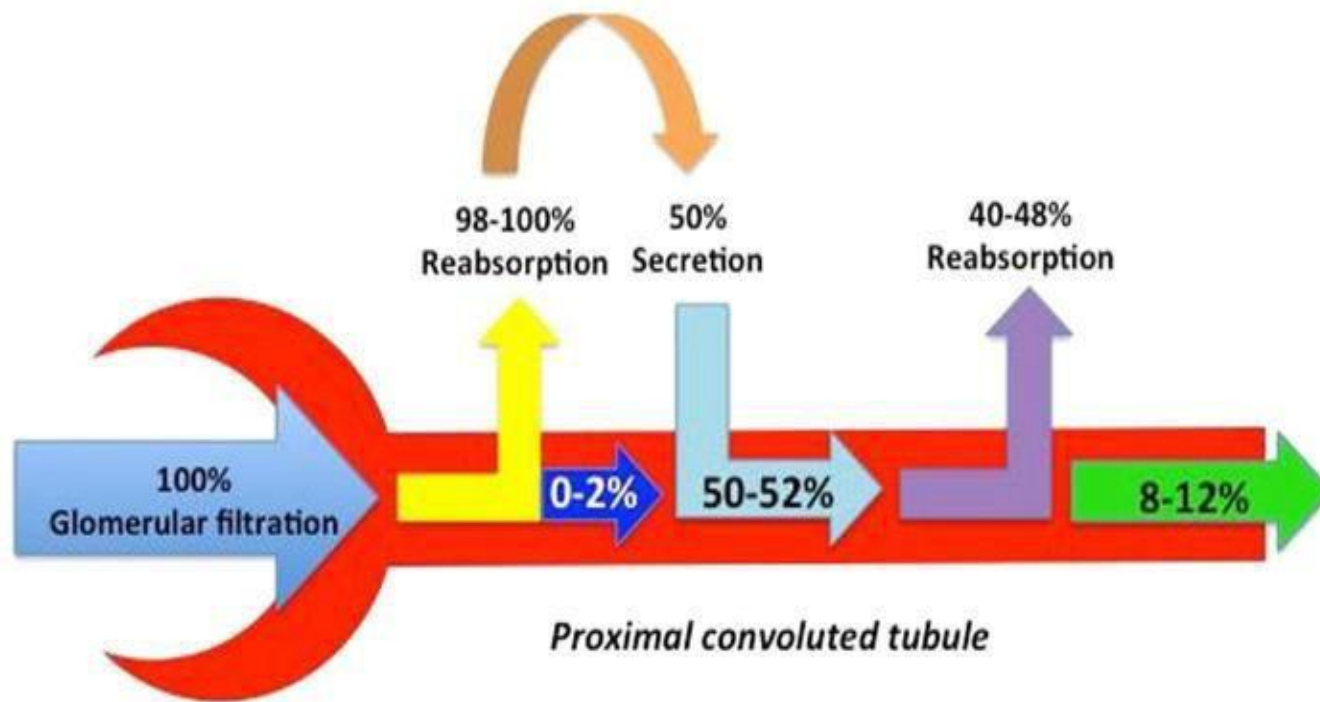
Source: [www.gout.com](http://www.gout.com)

**Uric acid (UA) category at baseline**

- UA <6 mg/dL
- UA 6-8 mg/dL
- UA 8-10 mg/dL
- UA >10 mg/dL



## Renal excretion of uric acid





Medication	Route	Usual Dose	Generic Availability	Estimated Cost for 30-Day Supply (\$) <sup>a</sup>
<b>Chronic gout</b>				
allopurinol (various products)	Oral	300-600 mg/day	Yes	18-36
febuxostat (Uloric)	Oral	40-80 mg/day	No	186
probenecid (various)	Oral	1-2 g/day (in 2 divided doses)	Yes	50-100
<b>Treatment-refractory gout</b>				
pegloticase (Krystexxa)	Intravenous	8 mg every 2 wk	No	5520

<sup>a</sup>Based on average wholesale price.



**Avoid** if Possible:-Organ Meats – liver, kidney, heart, sweetbreads, tripe, brain and tongue

**Limit**:-Beef. Chicken.camel. Seafood sardines  
Tuna Lamb..lard or pork pig mushrooms[fungi]

vegetable:- high purine content include  
cauliflower, spinach, Chickpeas, Soy beans,  
Peanut, high fructose corn syrup,sweetened soda

