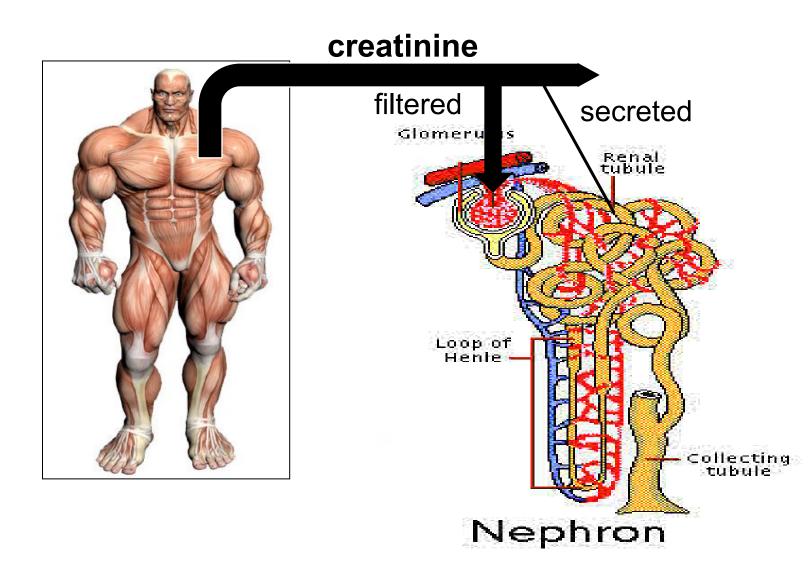


Step 1 - Creatinine

- Not harmful Creatinine is a marker of kidney function
- Comes from your muscles
 - o Every day you break down and build new muscle





Step 2 – Creatinine Removal

- Creatinine is carried by the blood to the kidneys where it is removed from the body
- When the kidneys are working normally, the amount of creatinine made every day is balanced by the amount removed in the urine and the number measured on the lab test remains stable
- When the kidneys are damaged for any reason, the amount of creatinine excreted in the urine goes down and you continue to make it; thus, the amount of creatinine in your blood increases

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	Glucose, Serum/Plasma Comment:	65 - 99 mg/dL	85	
	Fasting reference interval			
	Urea nitrogen, Serum/Plasma (BUN)	7 - 25 mg/dL	37 ^	
	Creatinine, Serum/Plasma	0.60 - 0.95 mg/dL	1.59 ^	
	Estimated Glomerular Filtration Rate (eGFR) Comment: The eGFR is based on the (1.59	31 ¥	
	the new eGFR from a previous Creat result, go to https://www.kidney.c kdoqi/gfr%5Fcalculator	en anna de manara de Caracteria de Caracteri		
	Urea nitrogen/Creatinine, Serum/Plasma	6 - 22 (calc)	23 ^	
	Sodium, Serum/Plasma	135 - 146 mmol/L	138	
	Potassium, Serum/Plasma	3.5 - 5.3 mmol/L	4.8	
	Chloride, Serum/Plasma	98 - 110 mmol/L	106	
	Carbon dioxide CO2), total, Serum/Plasma	20 - 32 mmol/L	26	
	Calcium, Serum/Plasma	8.6 - 10.4 mg/dL	10.2	
	Phosphate, Serum/Plasma	2.1 - 4.3 mg/dL	3.9	
	Albumin, Serum/Plasma	3.6 - 5.1 g/dL	4.4	
			\·-/-/	
	Glucose, Serum/Plasma	65 - 99 mg/dL	85	
	Comment:			
	Fasting reference interval			
	Urea nitrogen, Serum/Plasma (BUN)	7 - 25 mg/dL	37 ^	
	Creatinine, Serum/Plasma	0.60 - 0.95 mg/dL	1.59 ^	
	0.6 - 0.95 mg/dl	> OR = 60 mL/min/1.73m2	31 🗸	
	COL	CMD-EPI 2021 equation. To calculate		
	the new eGFR from a previous Creatinine or Cystatin C			
	result, go to https://www.kidney.org/professionals/			
	kdoqi/gfr%5Fcalculator	5 22 (cols)	00.4	
	Urea nitrogen/Creatinine, Serum/Plasma	6 - 22 (calc)	23 ^	
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<u>Step 3 – Creatinine Varies by:</u>

- Age
- Gender
- Two people can have the same creatinine and widely different kidney function
- We need to know your kidney function estimated glomerular filtration rate (eGFR)

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Glucose, Serum/Plasma Comment:	65 - 99 mg/dL	85
Fasting reference inter	val	
Urea nitrogen, Serum/Plasma (BUN)	7 - 25 mg/dL	37 ^
Creatinine, Serum/Plasma	0.60 - 0.95 mg/dL	1.59 ^
Estimated Glomerular Filtration Rate (eGFR)	> OR = 60 mL/min/1.73m2	31 ✔
Comment: The eGFR is based on the Comment: The eGFR from a previous Creat result, go to https://www.kidney.ckdoqi/gfr%5Fcalculator	inine or Cystatin C	
Urea nitrogen/Creatinine, Serum/Plasma	6 - 22 (calc)	23 ^
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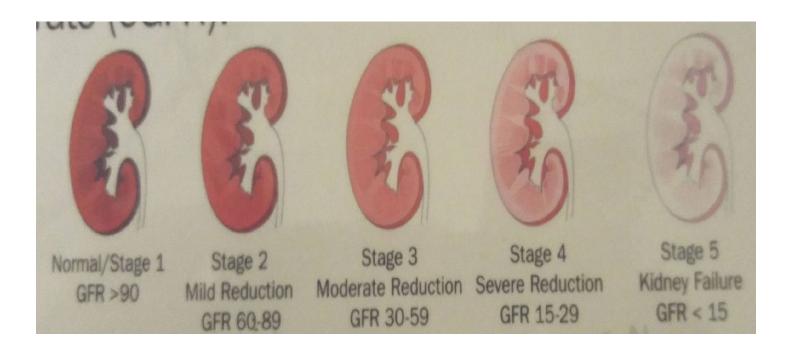
Step 4 – Creatinine and eGFR

- Creatinine and eGFR are inverse of each other.
- You want a low creatinine which will calculate to a high eGFR.
- As your creatinine increases, your eGFR will decrease.



5 Stages of Chronic Kidney Disease

About 15% of Americans have CKD.



Step 5 – Most Causes of CKD

- Diabetes
- Hypertension