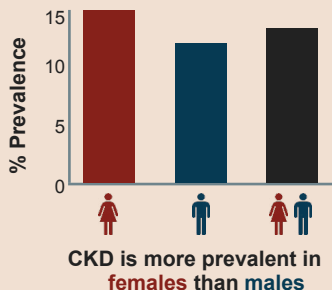


What is CKD?

Decreased kidney function shown by glomerular filtration rate (GFR) less than 60 mL/min per 1.73 m² or markers of kidney damage of at least 3 months duration

HOW COMMON IS CKD?



RISK FACTORS

Risk Factor	Female	Male
Glycosuria	4.2% OR	8.8% OR
Hypertension	6.3%	11.8%
Diabetes Mellitus	2.8%	4.5%
Triglyceride levels	93.0	116.0
Mean BMI	25.5	27.2



PATHOPHYSIOLOGY

- » Glomerular filtration rate (GFR) is considered the best overall index of kidney function
- » Various equations, based on serum creatinine (Cr) levels, are used to calculate GFR
- » Creatinine is produced by muscles
- » Muscle mass is greater in **men** than **women**. This results in lower baseline CR in **women** than **men** and can lead to overlooking CKD in **women**

BODY COMPOSITION

Parameter	Female	Pregnant	Male
Body Weight (kg)	68	72.5	78
Body Length (cm)	162	162	176
Body Surface Area (cm)	16,000	16,500	18,000
Total Body Water (L)	29.0	33.0	42.0
Extracellular Water (L)	11.6	15.0	18.2
Intracellular Water (L)	17.4	18.8	23.8

Anatomical differences between males and females can explain the differing responses to pharmacotherapies. These anatomical differences should always be considered when prescribing medication for the complications of CKD treatments such as high blood pressure, lower cholesterol levels, swelling and bone protection.

TREATMENT

Hemodialysis

Females starting hemodialysis have a higher mortality rate than **males**

Kidney Transplant

Survival is consistently better for **female** recipients of kidney transplants from **male** donors compared to **male** recipients of kidneys from **female** donors

IV Access Modalities

Women have a 15% lower probability of receiving an AV fistula for IV access for dialysis compared to **men**

To Learn More or Get Involved

Visit us at amwa-doc.org/sghc or email us at sghcstudents@amwa-doc.org