

LIFEFEST 2026

Nashville

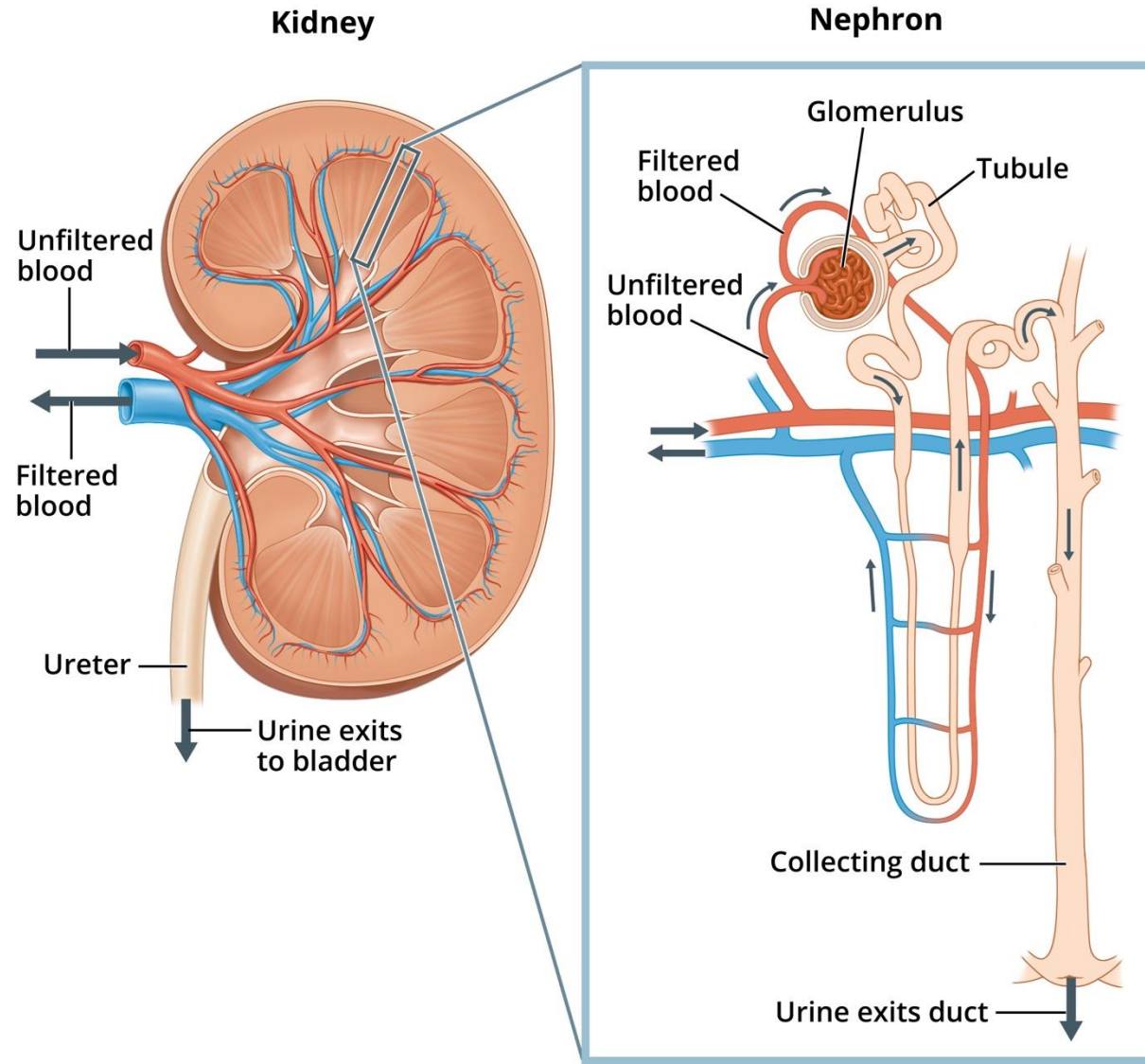


Ask the Specialists
GIST and Onconeurology

Dr. Hunter Huston

GIST and Onconeurology

Kidney Kartography



- Disease can occur along the entire course of the nephron and beyond
 - Vascular disease
 - Glomerular disease
 - Proximal tubule dysfunction
 - Acute tubular injury
 - Endocrinologic disorders
 - Urine concentrating disorders
 - Obstruction

CKD is Very Prevalent

Epidemiology of chronic kidney disease: an update 2022

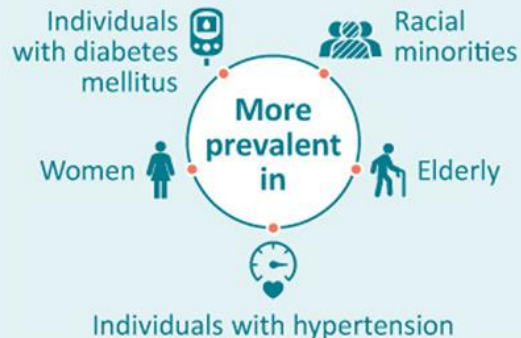
kidney
INTERNATIONAL
supplements



Extremely common

843,6 Million
in 2017

Approximately **1 in 10**



Increasing death rate

+41.5% 1990 to 2017



Rank in cause of death

Large burden in
low- and middle-income countries



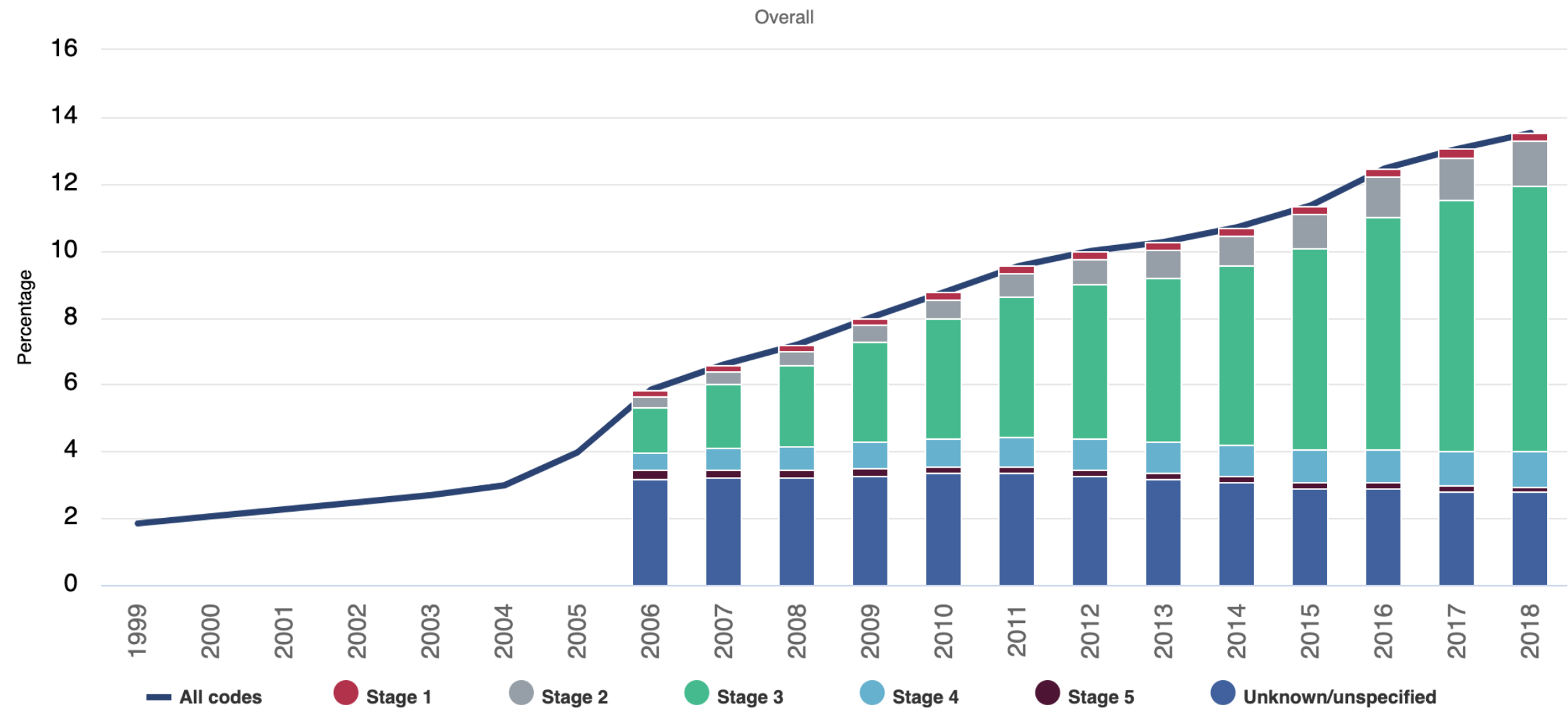
Among the **top 10 causes** of death
in Singapore, Greece, and Israel

Kovesdy, 2022

CONCLUSION

Chronic kidney disease (CKD) occurs frequently and has devastating consequences. This should prompt major efforts to develop preventative and therapeutic measures that are effective. The aim of these measures should be lowering the incidence of CKD and slowing its progression.

Figure 2.1 Prevalence of CKD (%), overall and by CKD stage among Medicare beneficiaries aged ≥66 years, 1999-2018



Data Source: 2020 United States Renal Data System Annual Data Report

GIST related CKD

- Treatment related

- TKI related disease

- AKI
 - Proteinuria
 - HTN

- TMA

- VEGFi drives increased Glom pressure (Bevacizumab)

- Tubular toxicity

- Imatinib (rare), Nilotinib

- Disease related

- TLS

- Uric Acid and phosphate crystal nephropathy

- Metastatic disease

- Nutritional deficits

- Volume depletion

Management

- Goal is to maintain effective therapy
- Dose adjust likely offending agent if needed
- Large dependence of RAASi
- Growing evidence for SGLT2i use
- Manage risk
 - Independently manage DM and HTN
 - Avoidance of other injury
- Change therapy if no success
- Dialysis?

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