## End Stage Kidney Disease and RRT in the Oldest-Old

SEKI A BALOGUN, MD, FACP, CMD, AGSF

DONALD W. REYNOLDS PROFESSOR OF MEDICINE

VICE CHIEF OF EDUCATION

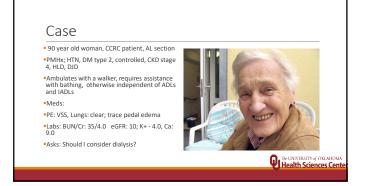
DIRECTOR, GERIATRIC FELLOWSHIP PROGRAM

DONALD W. REYNOLDS SECTION OF GERIATRIC MEDICINE

THE INVESTITY ONLAHOMA

Disclosure of
Financial
Relationships

•No financial disclosures





## Aging Kidney Structural changes Decline in renal mass per decade: approx. 10% cortical thinning decrease in the number of functional nephrons In younger and older age groups (18-29 vs. 70-75yrs) Cortical volume decreased by 16% proportion of globally sclerotic glomeruli on biopsy increased by 15%. Functional Changes Glomerular Filtration Rate Progressive fall in GFR in ≥40 years No decrease in CrCl in up to a third of older adults Renal Plasma Flow Renal Plasma Flow Recreases: (mean of 650 ml/min in the 4 th decade to 290 ml/min by the 9th decade) Renal vascular resistance increases

