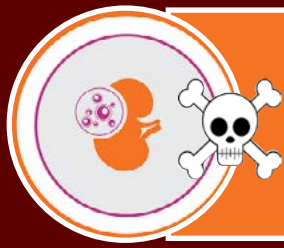




**Mc ABBAS  
CHARITY FOUNDATION**  
is pleased to raise it's first  
**project:** Help the needy  
people of Sudan gain access  
to Kidney Dialysis Machines





Death from  
chronic kidney  
disease in Sudan

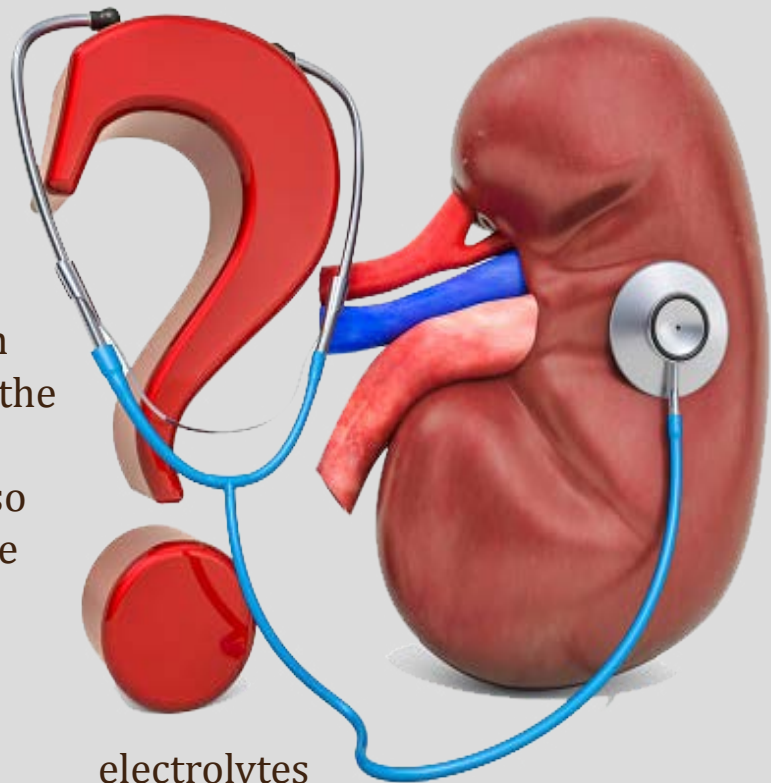
1990  
15.7  
per 100 000

2010  
18.0  
per 100 000

## What is dialysis and why is it used?

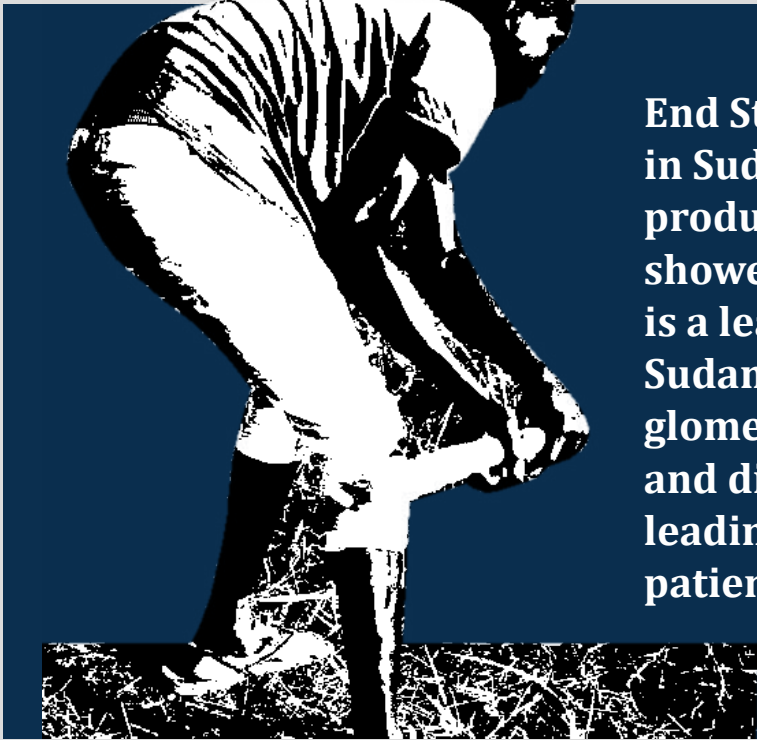
Properly functioning kidneys prevent extra water, waste, and other impurities from accumulating in the human body. This waste is sent to the bladder to be eliminated when you urinate. They also help control blood pressure and regulate the levels of chemical elements in the blood.

Dialysis is a treatment that performs the function of the kidneys if they have failed or just perform at only 10 to 15 percent of their normal function. It filters and purifies the blood using a machine. This helps keep fluids and



electrolytes in balance when the kidneys cannot do their job. Without dialysis, salts and other waste products will accumulate in the blood, poison the body, and damage other organs.





**End Stage Renal Disease (ESRD) in Sudan affects the economically productive age group. Studies showed that hypertension is a leading cause of ESRD in Sudan followed by chronic glomerulonephritis. Hypertension and diabetes mellitus are the leading causes of ESRF among patients over 40 years old.**

### **Doctors' Notes on Acute Kidney Failure**

**In the early stages of acute kidney failure, there may be little, or no symptoms produced. However, signs and symptoms of acute kidney failure usually appear quickly and are as follows:**

- Decreased energy that leads to a decrease in the ability to do normal activities.
- Puffiness or swelling in the legs and around the eyes.
- Shortness of breath, and/or vomiting, diarrhea.
- Abdominal pain.
- Decreased or lack of urine production.
- Lightheadedness, confusion,



itching, easy bruising

- Metallic taste in the mouth and elevated blood pressure.

Acute complete loss of kidney function results in a medical emergency and usually produces severe symptoms of the above with resultant seizures, coma or death if not treated quickly.



**Causes of acute kidney failure can be categorized as prerenal, renal and post-renal.**

## Prerenal

causes usually affect the flow of blood to the kidneys; they include dehydration, drop in blood pressure, blood loss, blockage or narrowing of kidney blood vessels, heart failure, liver failure, and/or heart attacks.

## Renal

problems are due to problems within the kidney itself that prevent proper filtration of blood and/or production of urine; they include blood vessel disease within the kidney, blood clots within the kidney injuries to the kidney tissue and cells and other causes.

## Postrenal

causes are due to problems affecting the movement of urine out of the kidneys; they include kidney stone formation, cancer of the urinary tract, some medications, bladder stones, blood clots in the bladder, bladder cancer, nerve disorders that damage the bladder's ability to empty, enlarged prostate and urethral strictures.

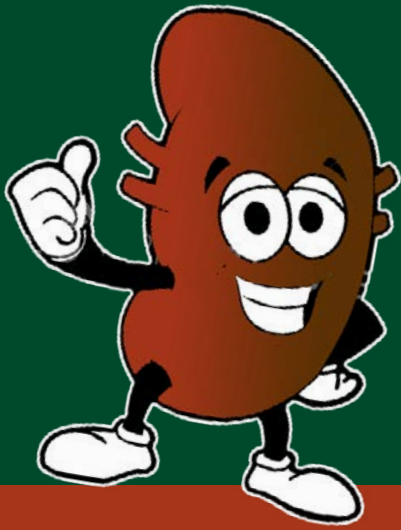


Medical Author: Charles Patrick Davis, MD, PhD

[https://www.emedicinehealth.com/slideshow\\_kidney\\_stone\\_pictures/article\\_em.htm](https://www.emedicinehealth.com/slideshow_kidney_stone_pictures/article_em.htm)







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