

Dialysis - Procedure, types and risks purpose

Oliveira *

Department of pathology, Karaganda medical university, Morocco

Abstract

Dialysis may be a treatment that filters and purifies the blood employing a machine. This helps keep your fluids and electrolytes in balance when the kidneys are unable to perform their job.

The function of kidneys is to filter your blood by removing waste and excess fluid from your body. This waste is shipped to the bladder which is eliminated through urine. because the body functions, the cells use energy and therefore the operation of the cells produces waste products that has got to be far away from the body. When these waste products aren't removed properly, they build up within the body. The elevation of waste products is often measured within the blood, which is named azotemia. thanks to accumulation of waste like urea and other nitrogenous waste compounds, a sick feeling is developed throughout the body called uremia.

Keywords: Kidney, Dialysis, Abdomen, Uremia

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Introduction

Dialysis performs the function of the kidneys once they have failed. End stage renal failure occurs when the kidneys are working at only 10 to fifteen percent of their normal function. Dialysis may be a procedure that's a substitute for several of the traditional functions of the kidneys. The kidneys are two organs located on either side within the back of the abdomen. Dialysis can allow individuals to measure productive and useful lives, albeit their kidneys not work adequately.

Types of Dialysis

Hemodialysis

Hemodialysis is that the commonest sort of dialysis. during this procedure uses a man-made kidney called as hemodialyzer is employed to get rid of waste and additional fluid from the blood. The blood is far away from the body and filtered through the synthetic kidney. The filtered blood is then returned to the body with the assistance of a dialyzer. tuberculosis (following drug resistance) or measles.

A surgery is going to be performed by your doctor to make an entrance point called as vascular access into your blood vessels to urge the blood to flow to the synthetic kidney.

Haemodialysis treatments usually last three to 5 hours and are

performed 3 times per week. However, it also can be completed in shorter and more frequent sessions. The length of treatment depends on your body size, the quantity of waste in your body, and therefore the current state of your health. it's usually performed at a hospital, doctor's office, or dialysis centre. For future treatment, you'll give yourself dialysis treatments reception after an extended period of your time.

Peritoneal dialysis

In this procedure a peritoneal dialysis (PD) catheter is going to be implanted into your abdomen by surgery. Through a membrane in your abdomen called peritoneum the catheter helps filter your blood. During treatment a fluid called dialysate flows into the peritoneum. The dialysate absorbs waste. Once the dialysate draws waste out of the bloodstream, it's drained from your abdomen. This process takes a couple of hours and wishes to be repeated four to 6 times per day. The exchange of fluids is often performed while you're sleeping or awake.

Risks associated with Dialysis

- low blood pressure
- anemia, or not having enough red blood cells
- itching
- high blood potassium levels
- difficulty sleeping
- muscle cramping

Conclusion

People experiencing severe, acute renal failure usually don't choose dialysis. The rationale for not choosing it's going to be because it's time consuming and expensive. There are other treatment options which will help manage your symptoms if you opt to not choose dialysis as your treatment option.

One of these options is management of anemia. The hormone erythropoietin (EPO) is produced naturally within the body when kidneys work properly.

you'll get an injection of EPO hebdomadally to assist with an under functioning kidney. Maintaining good vital sign can help slow the deterioration of your kidney. To avoid dehydration, drink more fluids. However, it's important to speak to your doctor before taking any anti-inflammatory drugs, including ibuprofen and diclofenac. A kidney transplant is an alternative choice for a few people which is additionally an extended term commitment. However, it's not suitable for everybody. Therefore, ask your doctor to see if a transplant is suitable for you.

*Correspondence to:

Oliveira

Department of

pathology

Karaganda medical university, Morocco

E-mail: Oliveira@gmail.com