

Effects Of Kidney Disease On The Human Body

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Kidney Function and the Regulation of the Human Body

Kidneys are crucial parts of the human body. They help in performing several functions in the body. The kidney helps to extract waste from the blood and assists in balancing the body fluids and then later forming urine. After that, the urine flows from the kidney to the bladder, where it is stored until it's full.

The organ has several filtering units that are called nephrons. Nephrons help to purify blood in the kidney. The kidneys are essential parts of the human body. When a person's organs stop working well, it results in a disease called kidney failure. Kidneys help prevent the buildup of wastes and extra fluid in the human body. They also help the human body to regulate the levels of electrolytes such as potassium and phosphate. Kidneys also help in making renin, which your body uses to maintain and manage renin, which is useful in regulating blood pressure.

When kidneys stop functioning, they have several side effects on the human body. The building up of waste products and fluid in the body, it can cause swelling in your ankles, weakness, vomiting, and poor sleep. When the kidney problem is not treated, it can get worse and damage other parts of the body, or it can build a new disease. Kidney disease can affect the human body in that when it is damaged, it reduces renal function. If your kidneys function well, then your renal service is 100 percent. A significant amount of kidney disease harms renal capacity by assaulting little filtration units in the kidneys, called nephrons. The nephrons' channels keep proteins and different cells your body needs in your circulation system while permitting liquid and waste that your body doesn't have to go out of the circulatory system and change to urinate. Once the renal function falls under 20 percent, then serious health problems start to appear.

Fatigue, Fluid Imbalance, and the Immediate Effects of Kidney Disease

There are several effects that happen in the body once a person has been diagnosed with kidney disease. A patient with kidney failure feels tired and fatigued, which is both physical and emotional. To that, you may think to sleep more each time than before. You may decrease participation in such activities just because you are tired. When you are tired or fatigued, you cannot work; therefore, you

may spend most of your time sleeping. Another effect is depression, which refers to those moments when you are down and you cannot do anything about it. When you are depressed, you cannot be easily motivated because you think you cannot enjoy yourself. Depression causes poor sleeping patterns or makes one not feel clear. Depression is accepted because you will imagine how your life will be after being diagnosed with a kidney disease. Another effect is that once you have been diagnosed with the disease, you might have stress. Change is a complicated thing because trying to accept the condition is a challenging thing. As a kidney patient, you may undergo several changes so that you can allow adjustments in your medication diet and other forms of treatment. Trying to change and adjust to several things can be quite stressful.

When you have developed kidney failure, you have to perform dialysis so that you can maintain your health. Dialysis is good, but it also has side effects on the body. There are both common effects and long-term effects. First, prolonged dialyses can cause infection in the body. Infection can result from frequent dialysis. The repetition of dialysis medications additionally expands your danger of building up a disease. Reactions of contamination can include fever, stomach torment, queasiness, spewing, or body hurts. Some patients can likewise create aggravation or bother the skin at the site where the dialysis tube is embedded into the body. These side effects can be awkward and may require an extra anti-microbial prescription to determine the disease. Another result is itchy skin. A patient who undergoes dialysis has dry skin because of the toxins that dialysis cannot completely remove from the body. Frequent irritation of your skin may make your skin seem red or flaky. Tireless scratching can likewise harm your fragile skin, expanding your danger of building up a skin disease. While experiencing dialysis, you may discover the utilization of topical creams or antihistamine meds to be useful in reducing irritated skin side effects. Also, dialysis can cause poor sleeping patterns. Some dialysis patients may have a problem with swelling of the legs, which may result in discomfort and cause a lack of sleep. Because of this, some patients may lack concentration during the daytime, which later will result in depression.

Cardiovascular Strain and the Long-Term Complications of Renal Failure

There are also long-term effects like heart disease. After some time, if your body holds excessively liquid, your heart needs to work significantly harder. Also, if you have hypertension, your veins turn out to be hardened, which does more work for your heart, as well. These issues can constrain your heart to work so hard that the left ventricle progresses toward becoming thick and extended, which is called left ventricular hypertrophy, or LVH. With LVH, out-of-shape [heart muscle](#) consumes room that ought to be utilized for pumping blood. At the point when the heart can't direct out all the blood, blood goes down into the lungs. To avoid this, you must regulate your blood pressure and keep it under control. Another effect is the damage to the nerves. That can change sensation, causing torment and deadness, consuming, or shivering. From 50% to 100% of individuals on dialysis have some level of nerve harm. Research demonstrates that neuropathy, for the most part, happens when

the GFR is under 12ml/min. Another examination found that it was more probable that the more somebody was on standard in-focus HD, the lower the dosage of treatment. Men had a more significant number of issues than ladies, maybe because they were bigger and required more blood cleaning. To avoid the problem of the nerves, you must ensure that your blood is clean all the time (Ortiz 1835).

Damaged kidneys can cause failure in the blood system. They create the production of the hormone erythropoietin to become slower than before. Due to that, it can result in iron defiance and anemia. Anemia can result in heart failure, tiredness, and organ failure. Anemia can be treated by taking supplements, transfusions of red blood cells, and adhering to a diet that is rich in iron. Another effect is the [skeletal system](#) problem. Large amounts of parathyroid hormone draw calcium from the bones into the circulatory system. The mineral irregularity makes the bones feel feeble, thin, and contorted. More seasoned patients and post-menopausal ladies are at a more serious hazard, yet 90% of dialysis patients are influenced. Calcium levels ought to be observed, and the patient ought to be given direction on bone well-being. Also, kidney failure causes the patients to have an inadequate [digestive system](#). Large amounts of urea in the blood may cause gastrointestinal issues, for example, sickness, poor craving (counting a failure to expend the essential measures of minerals and vitamins), terrible taste in the mouth, peptic ulcers, gastrointestinal drains, runs, spewing and that's only the tip of the iceberg (Yoo 34). It is vital to work with a nutritionist who has some expertise in renal disappointment and ESRD to make a dietary administration that is ideal for the patient's needs and to maintain health. Also, kidney damage may cause failure in the immune system. In that, the excess toxins that accumulate in the body around the circulatory system are destructive to all organs and hinder the marrow's capacity to create cells. Lifted sugar levels, the absence of rest, sorrow, and harm to the skin are patrons and influence the body's ability to help it fight all diseases.

In conclusion, kidney damage is a dangerous disease that can affect the well-functioning of the body. By that, it is seen as a very crucial part of the body that helps in realizing waste products from the blood. Kidney failure may be hurting and harm the body on different levels. A kidney patient should follow diet and doctors' instructions so that the kidney can regain. To avoid damage to your kidney, you can start during remedy therapies before they cause more damage to the body. Therapies that have to be done are dialysis, hemodialysis, and kidney transplants. By doing all these, your kidney will not be damaged further.

Works Cited

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