



Virtual Learning

Medical Interventions End Stage Renal Disease

May 11, 2020



Medical Interventions

Lesson: May 11, 2020

Objective/Learning Target:

Recognize that end stage renal failure is diagnosed when a patient loses 85 to 90 percent of his/her normal kidney function. (4.2.1)



Let's Get Started:

1. See how much you remember about kidneys by completing this short [quiz](#).
2. Review the structure and function of the kidney with this [video](#).



Lesson Activity

The term “chronic kidney disease” means lasting damage to the kidneys that can get worse over time. If the damage is very bad, your kidneys may stop working. This is called kidney failure, or end-stage renal disease (ESRD). View [this website](#) and take notes in your notebooks or on paper over:

- Overview/symptoms
- Causes/risk factors
- Diagnosis
- Treatment



Practice

After reading the article, answer the following questions:

1. What is the job of a kidney?
2. What happens when the kidney is not functioning properly?
3. What is End Stage Renal Disease (ESRD)?
4. How is ESRD diagnosed?
5. What are the treatment options or medical interventions for patients with ESRD?



Practice - Answers

After reading the article, answer the following questions:

1. filter your blood by removing wastes, control the body's fluid balance, and keep the right levels of electrolytes
2. they will not filter adequately and harmful waste products such as urea, creatinine, and blood urea nitrogen build up in the bloodstream, which causes the body to make fewer red blood cells due to the lack of the hormone erythropoietin
3. kidneys begin to fail as they lose 85 to 90 percent of their normal function and waste builds up leading to the need for dialysis or a transplant
4. Blood tests (BUN, creatinine, and GFR), urine tests (for protein levels), biopsy, imaging tests
5. Kidney dialysis (peritoneal or hemodialysis) or transplant



Additional Practice/Resources

1. Check your understanding by completing this [online quiz](#) over kidney disease.
2. For some more challenging case studies, view this one on the link between [heart attacks](#) and kidney failure or on [chronic kidney disease](#).
3. Read about this [case study](#) of how it can be difficult to make end-of-life care decisions for those with ESRD.
4. In the next lesson we will explore the treatment options for ESRD in more detail.