

Kidney Dialysis Problem

Meet the Problem Documentation:

Have students explore the following website or print out the following two articles from this website to share with students:

<http://www.jamesmichener.com>

Once on this site, students should read at least the following two articles:

Special Coverage

One day, life suddenly seemed too much

Lead a class discussion about the quality of life for a kidney dialysis patient. (Why would a famous author order his doctors to discontinue dialysis, even though he knew that without this treatment, death was imminent?) Give students one of the following assignments:

Construct a profile of a “typical” hemodialysis patient in the local community.

Construct a profile of a “typical” peritoneal dialysis patient in the local community.

These profiles should include economic status, symptoms of the disease, causes of the end-stage renal failure, description of dialysis procedures, description of the dialysis treatment facility, frequency of dialysis treatments, method of paying for dialysis treatment, personal cost and governmental cost of treatment, and quality of life issues facing the dialysis patient.

The profiles can be in the form of a hypothetical patient’s journal entries, a web page constructed by a dialysis patient to inform others about his/her disease and treatment, an oral report given to a particular audience (as elementary children, nursing students, co-workers of a dialysis patient, etc.)

Suggested Internet sources:

<http://nephron.com>

<http://www.asn-online.com>

<http://www.aakp.org>

<http://www.medhelp.org>

Curriculum Alignment: Kidney Dialysis Problem

Unit O Urinary System

Objective MD15.01 Describe the structure of the urinary system

- a. Kidney
 - 1. Medulla
 - 2. Cortex
- b. Nephron

Objective MD 15.02 Describe the function of the urinary system

- a. Excretion
- b. Fluid Balance
- c. Formation of Urine
 - 1. Filtration
 - 2. Reabsorption
 - 3. Secretion
 - 4. Urinary Output
 - 5. Urinalysis

Objective MD 15.03. Evaluate characteristics and treatment of common urinary disorders.

- a. Kidney failure
- f. Dialysis
- g. Kidney transplant

Unit H Circulatory System

Objective MD 08.03 Analyze circulation and the blood vessels

- b. General circulation

Unit G Hematology

Objective MD 07.01 Explain the structure of the blood.

- a. Plasma
- b. Erythrocytes

Objective MD 07.02 Analyze the function of the blood

- a. Erythrocytes
 - 3. Remove waste from the cell and carbon dioxide

Unit I Lymphatic System

Objective MD 09.02 Analyze the function of the lymphatic system

- b. Immunity

Objective MD 09.04 Apply standard precautions

- a. Standard precautions
- b. Occupational health and bloodborne pathogens