



AM 3

# **Dialysis / Renal Failure**

#### **Pearls**

- Recommended exam: Mental status. Neurological. Lungs. Heart.
- Consider transport to medical facility capable of providing Dialysis treatment.
- Do not take Blood Pressure or start IV in extremity which has a shunt / fistula in place.
- Access of shunt indicated in the dead or near-dead patient only with no IV or IO access.
- If hemorrhage cannot be controlled with firm, uninterrupted direct pressure, application of tourniquet with uncontrolled dialysis fistula bleeding is indicated.

## Hemodialysis:

Process which removes waste from the blood stream and occurs about three times each week. Some patients do perform hemodialysis at home.

## • Peritoneal dialysis:

If patient complains of fever, abdominal pain, and / or back pain, bring the PD fluid bag, which has drained from the abdomen, to the hospital.

## Complications of Dialysis Treatment:

#### Hypotension:

Typically responds to small fluid bolus of 250 mL Normal Saline. May result in angina, AMS, seizure or arrhythmia.

Filtration and decreased blood levels of some medications like some seizure medications:

#### Disequilibrium syndrome:

Shift of metabolic waste and electrolytes causing weakness, dizziness, nausea and / or vomiting and seizures.

## Equipment malfunction:

Air embolism.

Bleeding.

Electrolyte imbalance.

Fever.

## • <u>Fever:</u>

Consider sepsis in a dialysis patient with any catheter extending outside the body.

- Always consider Hyperkalemia in all dialysis or renal failure patients.
- Sodium Bicarbonate and Calcium Chloride / Gluconate should not be mixed. Ideally give in separate lines.
- Renal dialysis patients have numerous medical problems typically. Hypertension and cardiac disease are prevalent.

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