



Dialysis Orders OSCE

Scenario 2. Blood Leak/Membrane Rupture

Dr. _____

We're having a lot of trouble with Mrs Fountain's venous side today—even with changing polarity. The venous pressure is up around 250—and when I go over a blood flow rate of 250, the machine keeps cutting off and now the blood leak detector keeps going off. What do you want me to do?

1. _____ Stop dialysis _____ Continue dialysis
STOP (Fatal)
2. _____ Give back the blood _____ Clamp the lines. Don't give back
STOP (Fatal) the blood.
3. **FELLOW WILL BE COMING IMMEDIATELY. Y_____ N_____**
FATAL
4. Is there anything else you want me to do?
_____ Vitals
_____ Send stat serum electrolytes
_____ Dipstick the dialysate coming off the kidney for blood
_____ Pack the catheter if you can, but don't force it.

STOP

Tell the fellow that this is an OSCE, and that you have a few questions about the scenario. Ask him to meet you at your location. Circle answers:

1. What do you think is the most likely problem here? Dialysis Membrane Rupture;
Other _____
2. What are some causes of this? Too high venous pressure; manufacturing problem with membrane; dialyzers freezing or being dropped during shipping or stockage; excessive reuse with degradation of membrane. Other _____

3. If the membrane had not ruptured in this scenario, what could have happened to the catheter? Catheter rupture and embolization; venous side line connections could rupture; air embolism; internal bleeding/hematoma.
4. Ask the fellow to show you the pressure alarm Y____; N____, the blood leak detector Y____; N____, and the dialysate effluent side of the dialyzer Y____; N____. Make sure if he/she cannot, that you demonstrate after you ask.
- *5. Optional—you can demonstrate how to collect dialysate effluent, and check for blood with dipstick.