



DR. PABLO O. TORRE
MEMORIAL HOSPITAL

RIVERSIDE MEDICAL CENTER, INC.



METRO PACIFIC HEALTH
THE HEART OF FILIPINO HEALTHCARE

DEPARTMENT: Ancillary Division		POLICY NUMBER: DPOTMH-IPP-HEMO-P004-(02)	
TITLE/DESCRIPTION: REPROCESSING OF DIALYZER			
EFFECTIVE DATE: April 30, 2025	REVISION DUE: April 29, 2028	REPLACES NUMBER: DPOTMH-IPP-HEMO-P004-(01)	NO. OF PAGES: 1 of 8
APPLIES TO: Hemodialysis Unit		POLICY TYPE: Internal	

PURPOSE:

To make sure that the dialyzer is free from blood components, allergens, and pathogens for safe reuse.

DEFINITIONS:

Dialysis Reprocessing – is a process of cleaning, rinsing, and disinfecting of dialyzers for safe reuse.

Dialyzer – is a tube-like device with encased hollow fibers which acts as an artificial kidney and is used primarily to filter blood during hemodialysis. Extra Corporeal Circuit (ECC) - is a synthetic tube with different segments and ports that is used as a conduit for blood and other solutions necessary in performing hemodialysis.

Hemodialysis – is an artificial process of removing waste products and excess fluid from the blood using a filter (dialyzer) outside the body.

Peracetic Acid – (also known as peroxyacetic acid, or PAA), is an organic compound with the formula $\text{CH}_3\text{CO}_3\text{H}$. It is the primary disinfectant used to remove surface contaminants (primarily protein) on dialyzers.

TCV (total cell volume) – measurement of volume of water being filled in a blood compartment of a dialyzer either with the conventional method or with automated reprocessing machines.

RESPONSIBILITY:

Hemodialysis Technicians, Renal Nurses, Dialysis Unit Head, and Hemodialysis Supervisors

POLICY:

1. The dialyzer must be rinsed using purified water before chemical disinfection.
2. The dialyzer must be disinfected with peracetic acid using an automated dialyzer reprocessing machine (Renatron or Apoltron).
3. The reprocessed dialyzer must pass the total cell volume (TCV) performance test before it can be stored for reuse.
4. The dialyzer reprocessing must be recorded appropriately indicating the name of the patient, date of first use, and the TCV.





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5. The reprocessed dialyzer must be internally soaked with peracetic acid.
6. Prior to reuse, the dialyzer must be free from peracetic acid. Peracetic acid shall be rinsed out from the dialyzer using 500ml to 700ml sterile saline solution attached in the hemodialysis machine using eco-priming.
7. Residual peracetic acid from the dialyzer must be at zero ppm as determined using the residual peracetic acid test strip.





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PROCEDURE:

1. Hemodialysis Technician rinses the dialyzer using purified Osmosis water until all blood fibrin clots are removed.
2. Then Hemodialysis technician places the dialyzer onto the automated reprocessing machine, attaching the blood ports and the dialysate ports according to equipment specifications.
3. Hemodialysis Technician rinses and cleans the dialyzer through the reprocessing machine.
4. Hemodialysis Technician checks the performance of dialyzer.
5. Hemodialysis Technician ensures TCV is more than or equal to 80% of the factory measured TCV.
6. Peracetic acid is used as a sterilant for dialyzer.
7. Hemodialysis Technician caps blood ports and the dialysate ports using port caps soaked in peracetic acid for at least 12 hours.
8. The dialyzer is kept in a storage rack where direct physical contact from one dialyzer to another is prevented.
9. Prior to reuse the Renal Nurse shall:
 - 9.1. verify that the identity of the patient and the owner of the dialyzer, as labeled on the dialyzer, are one and the same person.
 - 9.2. couple the reprocessed dialyzer onto the hemodialysis machine and attach it to a sterile extra corporeal circuit (ECC).
 - 9.3. rinse the dialyzer using a sterile saline solution (500ml to 700ml) attached to the ECC test the peracetic acid concentration of a fluid sample from the dialyzer using a residual peracetic acid test strip. The result must be zero (0) PPM before the dialyzer will be considered safe for reuse. If the test result is greater than zero (0) PPM, the Renal Nurse shall repeat the saline rinsing (procedure 3.2.) and retest the same until residual peracetic acid is equal to zero (0) PPM.





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WORK INSTRUCTION:

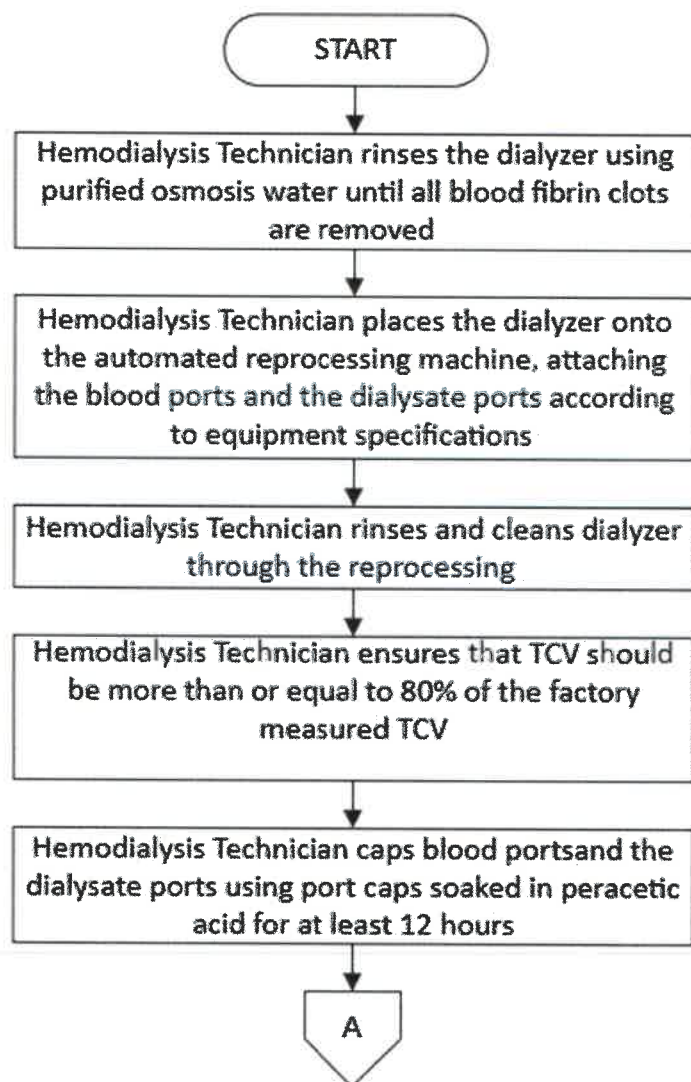
REPROCESSING OF DIALYZER

KEY TASK	PERSON RESPONSIBLE
1. Rinses the dialyzer using purified osmosis water until all blood fibrin clots are removed.	Hemodialysis Technician
2. Places the dialyzer onto the automated reprocessing machine, attaching the blood ports and the dialysate ports according to equipment specifications.	
3. Rinses and cleans dialyzer through the reprocessing machine.	
4. Ensures that TCV is more than or equal to 80% of the factory measured TCV.	
5. Caps blood ports and the dialysate ports using port caps soaked in peracetic acid for at least 12 hours.	
6. Verifies that the identity of the patient and the owner of the dialyzer as labeled on the dialyzer, are one and the same person prior to reuse.	Renal Nurse
7. Rinses the dialyzer using a sterile saline solution (500ml to 700ml) attached to the ECC.	
8. Tests the peracetic acid concentration of a fluid sample from the dialyzer using a residual peracetic acid test strip. The result must be zero (0) PPM before the dialyzer will be considered safe for reuse.	
9. Repeats the saline rinsing and retest the same until residual peracetic acid is equal to zero (0) PPM if the test result is greater than zero (0) PPM.	



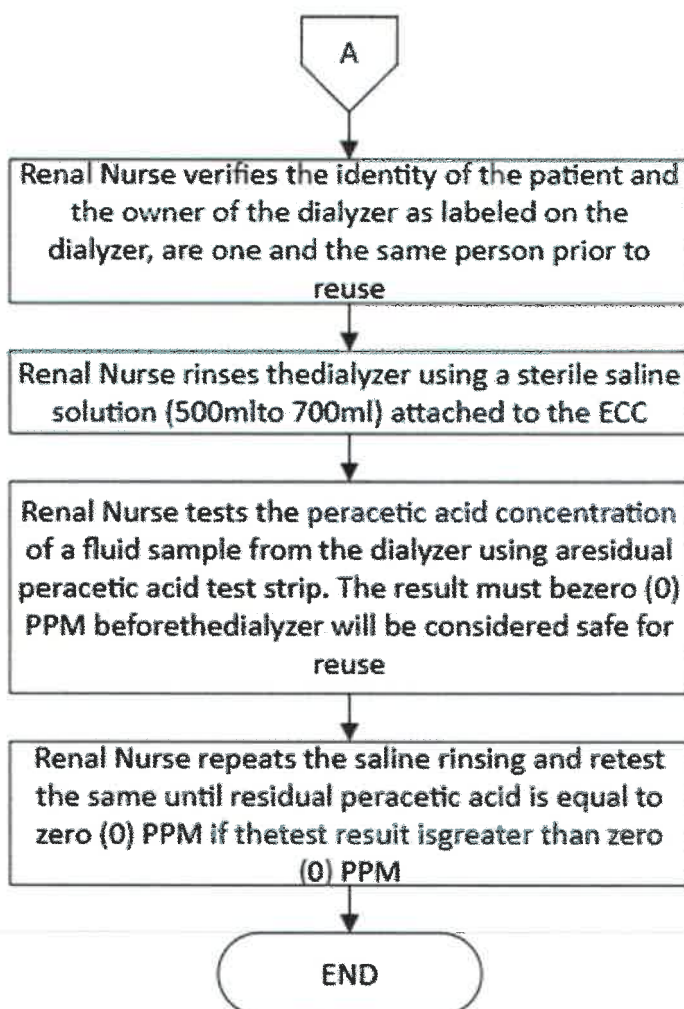
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WORK FLOW:





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FORMS: N/A
EQUIPMENT: N/A
REFERENCES: <ol style="list-style-type: none">1. <i>Clinical Practice Guidelines and Clinical Practice Recommendations. KDOQI Guidelines, 2006</i>2. <i>ANSI/AAMI RD47:2020, Reprocessing of Dialyzers</i>





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