

# Reduce the Severity of Blood Clotting in Dialyzer

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## Abstract

Hemodialysis (HD) is one of the major treatment modalities for uremic patients. If blood clotting in the dialyzer develops, it may aggravate anemia during HD, reduce the adequacy of dialysis, and increase the cost and workload of the nursing staff. Clinically, it's not uncommon to observe a discrepancy between the true frequency of blood clotting in a dialyzer and the monitor records. In this project, we used the following method to perform inspections and verify the self-checklist to manage dialyzer clotting in HD patients. First, puncture technique re-training; second, correct hemodialysis technique & anticoagulant processing; third, blood transfusion technique standardization; and fourth, nursing assessment & complete record. We also revised the related standard procedures as clinical guidelines. As a result, we reduced the percentage of dialyzer clotting from 10.8% to 3%. This reduced the necessity for dialyzer replacement and labor cost. It can save about nine hundred and forty thousand NT dollars per year, and enhanced the quality of dialysis.

**Key words : hemodialysis, Hollow fiber, dialyzer clotting**

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