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The related factors between percutaneous transluminal angioplasty and surgical reconstruction after the vascular access failure among hemodialysis patients

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Introduction: Hemodialysis patients related to the total population prevalence rate is still high. Hemodialysis patients mainly rely on vascular access for treatment, the vascular access can be regarded as the second lifeline of patient.

Objective: The purpose of this study was to explore the cost and timing between Percutaneous Transluminal Angioplasty (PTA) and surgery reconstruction, and making an appropriate guideline for PTA and surgery reconstruction. The objective of this study is to reduce the failure rate of fistula and the maintenance cost.

Methods: There were 129 hemodialysis patients who had vascular access failure participated in the study. Medical records were reviewed and analyzed. Data was analyzed with logistic regression and chi square test by applying SPSS 22.0.

Results: In PTA, there is no significant in gender. However, age, diabetes (HbA1c 5.5), the emboli of artificial vascular graft (AVG) and dynamic venous fistula tube (AVF), PTA cost is higher than rebuilding the fistula tube, fistula flow 670 cc/min easily embolism and PTA are significant (P 0.05).

Conclusion / Practical for application: The results of the study suggest that health care providers have to monitor and record the blood flow of A-V fistula, and making a guideline for the surgery reconstruction and PTA regularly. They still need to provide the rationalization of medical expenditure and extension the life expectancy of fistula in order to enhance the quality of patients' life.

Biography

Hsiao Wen Chien has nursing qualifications for 20 years, including 17 years of haemodialysis career with the investigation team of the hospital to do research, and completed master's degree from I-Shou University at the age of 41-year-old. I have published more than 6 papers in reputed journals including Taiwan Society of Kidney Medicine 104th Annual Conference and Academic Presentation and 104th Annual Promotion of Integral Medical Integration Services and PACE and PAC International Science and Technology Symposium.

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