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Effect of Nutritional Supplementation on Patient Safety Indicators Amongst Maintenance Hemodialysis Patients at Dr Sardjito Hospital

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Objectives:

The aim of this study is to assess the effect of nutritional supplementation on patient safety indicators.

Methods:

This study was an experimental study with pre and post test design. Total of 85 adult men and women hemodialysis patients aged 19-60 years old with predominantly diabetics and hypertension causes of renal disease were given nutrition intervention during a period of 3 weeks. Anthropometric, biochemical, patient safety parameters (such as hypoglycemia, cramp, and shock), and quality of life measurements were recorded at baseline and after 3 weeks intervention. Repeated measures analysis were used to assess the effect of the nutrition intervention.

Results:

This study found that the incidence of hypoglycemia, abdominal and foot cramp, as well as shock was happened among 30.6 %, 12.9 % and 16.5% respectively at baseline data. After the 3 weeks nutrition intervention and dietary counseling, the incidence of patient safety indicators reduced significantly to 3.5 % (hypoglycemia) and 2.4 % (shock) respectively.

Conclusions:

This study examine the impact of nutritional supplementation on patient safety parameters in hemodialysis patients are indicated.

Table 1. Differences on patient safety indicators before and after intervention

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Patient safety indicators	Pre test		Post test		p Value
	n	%	n	%	
Hypoglicemia					
Yes	26	30.6	3	3.5	0.0000
No	59	69.4	82	96.5	
Abdominal and Foot Cramp					
Yes	11	12.9	0	0	0.0009
No	74	84.1	85	100	
Shock					
Yes	14	16.5	2	2.4	0.0005
No	71	83.5	83	97.6	