

Dedication

To my parents who
supported me in my life

To my brothers and sisters

To my friends

To those help me in my way

Ekhlās

Acknowledgement

I would like to thank the almighty Allah for giving me the strength and stamina to accomplish this work .

I would like to express my deep thanks and appreciation to my supervisor prof/ Mohammed Abdelrahim, who has given me much of his time for suggestion and supervision of this work .

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All thanks are due to them and everyone lent a hand to make this work

Abstract

Across-sectional study conducted during the period of February to may 2011 in Selma Renal Center Khartoum . Fifty blood samples were collected from 50 patients Chronic Renal Failure (CRF) patients under haemodialysis, (21) were female and(29) were male to determine the effect of haemodialysid on Total Protein, Albumin , Creatinine and Serum Uric Acid levels were measured for test group pre and post dialysis using spectrophotometer analyser. The result obtained show that haemodialysis affected uric acid and creatinine significant reduction post dialysis was observed

But Total Protein and Albumin not much affected and nearly remained as pre as post haemodialysis

We may include . haemodialysis is of beneficial .effect to CRF patients by reducing creatinine and uric acid level.

مستخلص الدراسة

اجريت دراسة مقطعية في الفترة من فبراير وحتى مايو 2011 في مركز الشهيدة الدكتورة سلمى لامراض الكلي بالخرطوم ، حيث استهدفت الدراسة 50 فرد من مرضي الفشل الكلوي المزمن كمجموعة للدراسة حيث جمعت 50 عينة دم منهم لمعرفة تاثير الغسيل الدموي علي مستويات البروتين والاليومين والحمض البولي في امصال مجموعة الدراسة قبل وبعد الغسيل بأستخدام جهاز محلل اسبكترو وتمت مقارنة النتائج المتحصل عليها من مجموعة الدراسة مع نظيراتها في المجموعة وذلك للتعرف علي اثر مرض الفشل الكلوي المزمن علي المقاييس الحيوية ، ومن ثم تمت دراسة ارتباط هذه المقاييس الحيوية ضمن مجموعة الدراسة.

وقد وجد ان مستوي حمض اليوريك والكرياتنين مرتفع عند مرضي الفشل الكلوي قبل الغسيل لكن انخفضت هذه المستويات بطريقة احصائية معنوية بعد الغسيل بينما لم توجد فروقات ذات دلالة في مستويات البروتين الكلي والاليومين قبل وبعد الغسيل

وتخلص هذه الدراسة الي ان الغسيل الدموي له اثر فعال علي مرضي الفشل الكلوي حيث يعمل علي انخفاض مستوي كل من الكرياتنين والحمض البولي

Abbreviation

GFR	glomerular filtration rate
ADH	anti diuretic hormone
NPNs	non protein nitrogen compounds
ATP	Adenosine Tri Phosphate
PTH	Parathyroid hormone
BUN	blood urea nitrogen
SLE	systemic lupus erythematosus
RTA	renal tubular acidosis
ARF	acute renal failure
ESRD	end stage renal disease
CRF	chronic renal failure
CKD	chronic kidney disease
CAPD	continuous ambulatory peritoneal dialysis
HLA	human leucocyte antigen
GIT	gastrointestinal tract
APPs	acute phase proteins
APR	acute phase reaction or response
CRP	C-reactive protein

COP	colloidal osmotic pressure
AAT	Alpha ₁ - antitrypsin
AFP	Alpha ₁ -fetoprotein
ESR	erythrocyte sedimentation rate
HD	haemodialysis
GN	glomerulonephritis
HIV	human immunodeficiency virus
EPO	Erythropoietin

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