

COMPARSION OF BIA,CPC ON PRE & POST RENAL TRANSPLANT PATIENTS- AN ONGOING STUDY.



BY

JAYANTHI.V,GEETHA.K, OBULAKSHMI.O, DR.GEORGI
ABRAHAM, DR.S.SHANMUGABHASKAR.
CHENNAI TRANSPLANT CENTER,
MADRAS MEDICAL MISSION, CHENNAI, INDIA.

INTRODUCTION

Patients undergoing dialysis and Post Transplant suffer from severe malnutrition. Most of the data published is from the western countries. This study was done to compare the nutritional markers by using BIA (Bio Impedance Analysis) and to compare the calorie protein intake of pre and post renal transplant patients.

AIM

TO ASSESS THE BODY COMPOSITION ANALYSIS & CALORIE AND PROTEIN COUNT OF HEMODIALYSIS SUBJECTS PRE & POST TRANSPLANT .

METHODS & METHODOLOGY

- **SAMPLE SIZE - SUBJECTS: 16 PATIENTS ON HEMODIALYSIS (PRE) AND POST TRANSPLANT STAGES.**
- **NUMBER OF VEGETARIANS : 2**
- **NUMBER OF NON-VEGETARIANS: 14**
- **TOOLS – QUESTIONNAIRE, BIA REPORTS, FOOD DIARY RECORDS.**
- **BODY FAT ANALYSED BY MALTRON - BF ANALYSER 907.**
- **ANALYSIS DONE POST DIALYSIS & POST TRANSPLAST AFTER ONE MONTH.**
- **STATISTICAL ANALYSIS - STUDENT'S 'T' TEST.**

BODY FAT ANALYSER



RESULTS

TABLE I

BODY COMPOSITION ANALYSIS OF PRE & POST TRANSPLANT PATIENTS

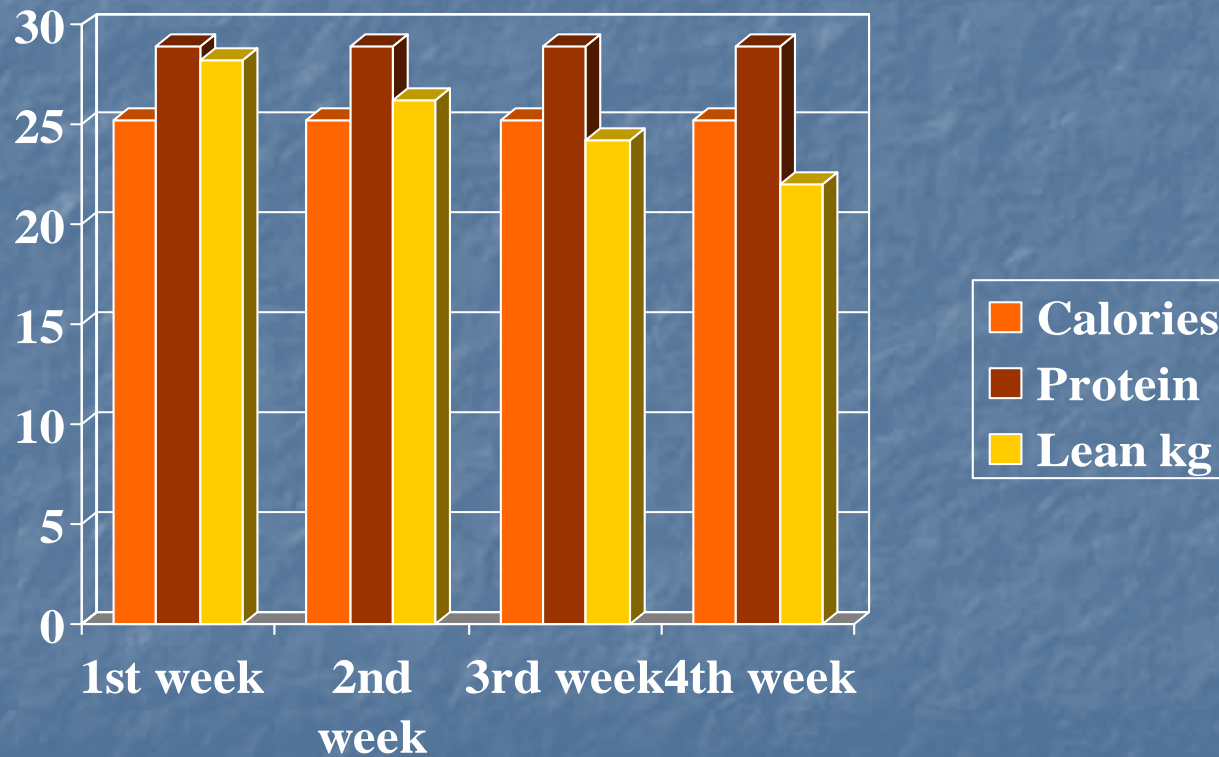
BODY COMPOSITION ANALYSIS	PRE TRANSPLANT	POST TRANSPLANT
WEIGHT (Kg)	54.16	57.23
FAT (%)	26.78	25.55
LEAN Kg	73.03	74.36
TOTAL BODY WATER (%)	53.21	54.59

TABLE II

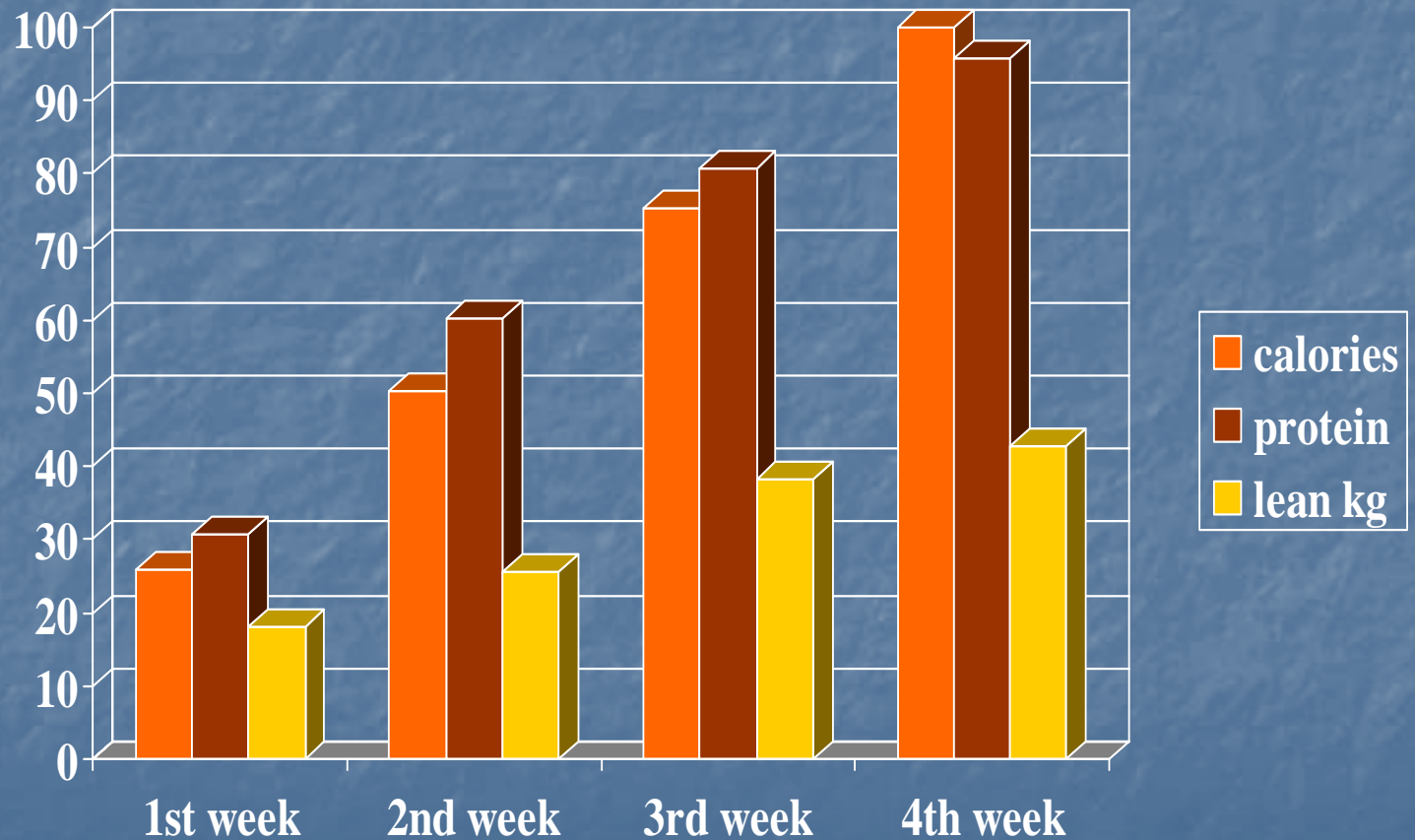
COMPARISON OF NUTRIENT INTAKE PRE & POST TRANSPLANT SUBJECTS (MEAN VALUES)

NUTRIENT INTAKE	PRE TRANSPLANT (Subject - 15 pts)	POST TRANSPLANT (Subject - 15 pts)	SIGNIFICANCE
CALORIE INTAKE(kcal)	1445.31	1533.06	0.05
PROTEIN INTAKE(g)	39.31	46.62	0.01

ANALYSIS OF CALORIES, PROTEIN, LEAN KG % OF PRE-TRANSPLANT SUBJECTS



IMPACT OF CALORIES AND PROTEIN INTAKE ON LEAN KG % (Post Transplant)



CONCLUSION

- SIGNIFICANT DIFFERENCE IN LEAN WEIGHT (KG).
- DEFINITE IMPROVEMENT IN CALORIE & PROTEIN INTAKE.
- POST RENAL TRANSPLANT PATIENTS HAD A BETTER MODALITY OF BODY COMPOSITION & CPC WHEN COMPARED TO THE HD PATIENTS.

SUGGESTIONS

- STUDY NEEDS TO BE CONDUCTED AT 1 MONTH, 6 MONTH & 12 MONTH INTERVAL TO VALIDATE THE RESULTS.



Thank You