

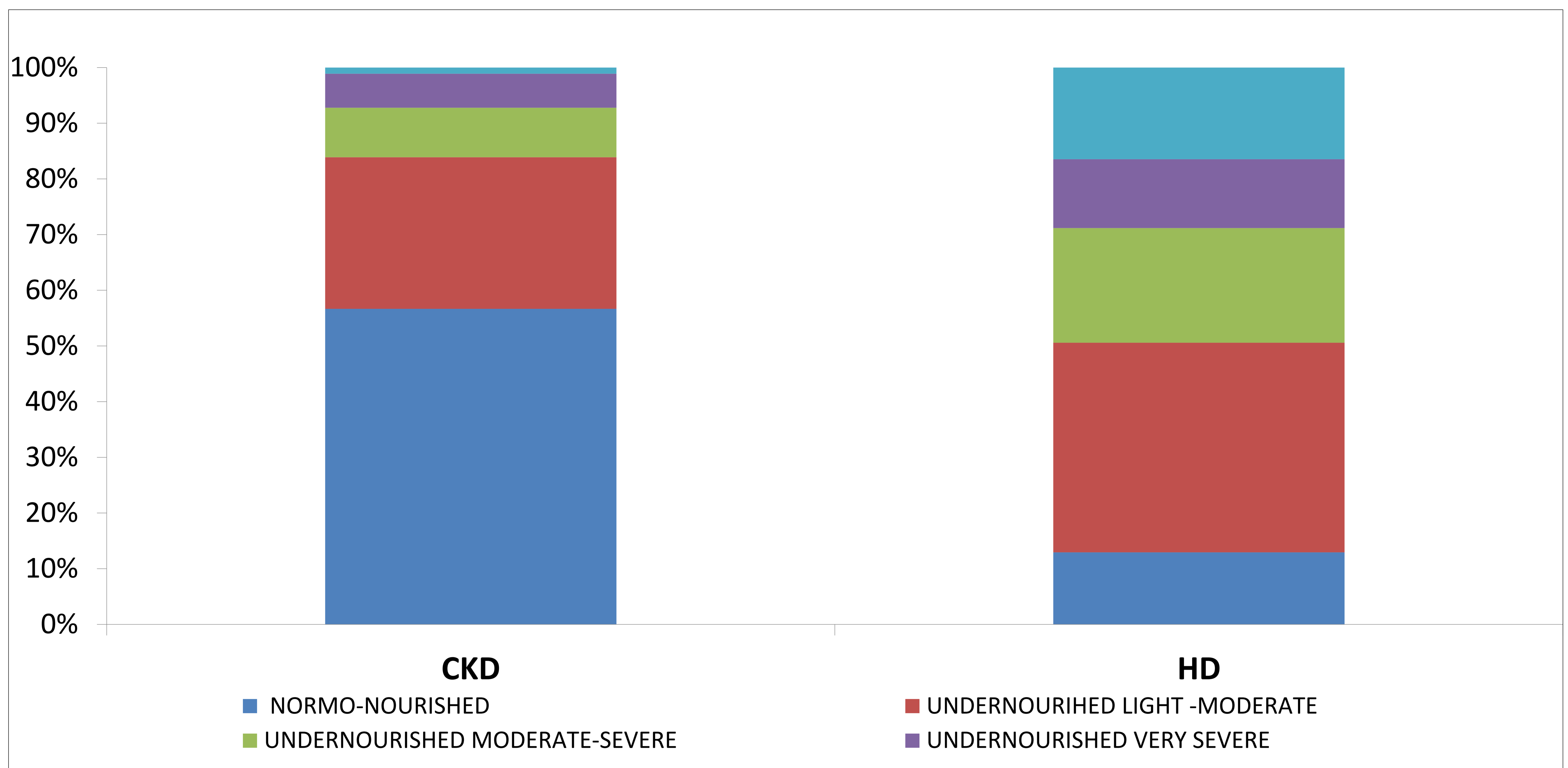
Differences in the nutritional state of advanced CKD and HD patients using Malnutrition Inflammation Score (MIS)

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Aims.- To evaluate the nutritional state of CKD patients in stages 3-5 without dialysis and those undergoing hemodialysis by comparing malnutrition-inflammation percentages with the MIS. Thus also comparing nutritional parameters such as visceral proteins, hemoglobin, CRP and body composition by bio-impedance (BIVA) in both cases.

Methodology.- 350 patients were nutritionally evaluated. 180 (51.42%) with CKD and 170 (48,57%) undergoing HD. 61,14% were males. CKD age was 71.71± 13,25 years vs xHD 68.94±13.76 years (p=0.055). The stratified nutritional state diagnosis was established through the MIS and differences between HD and CKD were also found in other nutritional parameters such as Biochemical and body composition by BIVA.

Results.- The results for MIS in CKD and HD in table 1 show a lower percentage of well-nourished for HD than CKD in the studied population with under- nutrition being equally higher for HD than CKD for the different MIS strata.



	CKD	HD	p
Weight	72.81±16.20	67.70±15.45	0.003
BCM%	38.52±10.38	35.46±11.75	0.010
TBW%	54.42±7.52	52.75±7.18	0.034
Muscle M %	35.65±9.56	32.06±9.71	0.001
BCMI	6.84±2.17	5.50±2.22	0.000
Hb	12.04±1.39	1.32±1.42	0,000
Albumin	4.15±0.72	3.99±0.50	0.019
Prealbumin	26.46±7.15	24.02±6.76	0.003
CRP	0.96±2.22	1.64±2.52	0.010

Table.1.-Significant differences between CKD vs HD

Conclusions

- 1.-Monitoring the nutritional state in CKD units promotes maintenance of a good nutritional state in a high percentage of patients.
- 2.- In comparison with HD patients a higher percentage of normo-nourished patients was observed in CKD patients with differences in biochemical parameters, body composition and MIS scale.