Chapter 5

CONCLUSION
Control compared with NALC

When compared to the control category, NALC category showed a significant increase at 1% level in the mean values of serum bilirubin, AsT, AIT, GGT, CRP and AST/AIT ratio. The NALC category showed a statistically significant decrease in serum albumin level. The serum levels of ALP, ferritin, ceruloplasmin and transferrin values were not statistically significant when compared to the control group.

Control compared with ALC

The ALC category showed a statistically significant increase in the serum values of bilirubin, AsT, AIT, GGT, CRP, ferritin and AsT/AIT ratio and there was a significant decrease at 1% level in the serum values of albumin and transferrin when compared to the control category. The serum values of ALP and ceruloplasmin in the ALC category were not statistically significant when compared to the control category.

Control compared with HCC

The serum values of bilirubin, AsT, AIT, ALP, GGT, CRP, ferritin, ceruloplasmin and AsT/AIT ratio of HCC category showed a statistically significant increase when compared to the control category. When compared to the control category, HCC category showed a statistically significant decrease in the serum albumin and transferrin values.

NALC compared with ALC

When compared to NALC category, ALC category showed a significant increase in the serum values of bilirubin, AsT, GGT, ferritin and AsT/AIT ratio. There was a significant decrease in the serum transferrin level. There was a change in the serum values of AIT, ALP, CRP, ceruloplasmin and albumin in ALC.
category, when compared to NALC category and these values were not statistically significant.

NALC compared with HCC

When NALC and HCC categories were compared, the serum levels of bilirubin, ALP, ferritin and ceruloplasmin of HCC category showed a statistically significant increase and albumin showed a statistically significant decrease. The serum levels of AsT, ALT, GGT, CRP and AsT/ALT ratio of NALC and HCC categories showed no statistical significance.

ALC compared with HCC

The serum levels of AsT, ALP, GGT, ferritin, ceruloplasmin and AsT/ALT ratio of ALC category was statistically significant when compared to the HCC category. The serum levels of bilirubin, albumin, ALT, CRP and transferrin of ALC category showed no statistical significance when compared to HCC category.

Categories showing highest and lowest values

Among the different disease categories, ALC showed a highest increase in the serum values of bilirubin, AsT, ALT, GGT, ferritin and AsT/ALT ratio and a highest decrease in the serum values of transferrin, HCC showed a highest increase in the serum values of ALP, CRP and ceruloplasmin and a highest decrease in the serum albumin value. The NALC category showed lowest values in serum bilirubin, AsT, ALP, GGT, CRP and ferritin and lowest decrease in the serum value of transferrin and Albumin.

Order of increase of parameters in different categories

When various serum parameters of different categories were compared, the increasing order of NALC<HCC<ALC was found in the values of bilirubin, ALT, GGT, AST and ferritin, increasing order of NALC < ALC <HCC was found in the
values of CRP and ALP, increasing order of ALC < NALC < HCC was observed in the ceruloplasmin value and an increasing order of HCC < NALC < ALC was observed in AsT/ALT ratio.

**Order of decrease of parameters in different categories**

A decreasing order of NALC > ALC > HCC for albumin and a decreasing order of NALC > HCC > ALC for transferrin were observed when various serum parameters of different categories were compared.

**Serum enzyme pattern in different categories**

Among the serum enzymes, AsT, ALT, and GGT values were very high in ALC category than NALC and HCC categories, while ALP value was found to be very high in HCC than NALC and ALC categories.

**Serum acute phase proteins pattern in different categories**

When the values of acute phase proteins in different categories were compared, the CRP and ceruloplasmin values were found to be higher in HCC category than NALC and ALC categories, while ferritin value of ALC category was found to be higher than NALC and HCC categories. The value of transferrin was found to be lower in ALC than NALC and HCC categories.