



EFFECT OF AGEING ON LIVER FUNCTION

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ARTICLE INFO

Article History:

Received 15th December, 2017

Received in revised form 2nd

January, 2018 Accepted 05th February, 2018

Published online 28th March, 2018

Key words:

Liver Functions, Ageing

ABSTRACT

INTRODUCTION: Ageing occurs at many levels –social, psychological, physiological, morphological, cellular and molecular levels. Change in protein metabolism could be the major result of age related difference and would have far reaching effects. In general protein synthesis declines with age and turnover also declines. Liver plays a major role in protein synthesis and degradation. OBJECTIVES: To find the effect of ageing on liver functions. METHODS: 120 healthy subjects between the age group 21 and 90 yrs were recruited for the study. They were divided into seven groups depending on the age. Their liver functions (SGOT, SGPT, ALP, B were estimated by autoanalyser and was statistically analysed. RESULT: They were no statistical significance as the age advance in the liver function. CONCLUSION: The study convincingly proves that there is no adverse effect on liver due to ageing.

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INTRODUCTION

Ageing is characterised by a failure to maintain homeostasis under conditions of physiological stress, and that this failure is associated with a decrease in viability and increase in vulnerability of the individual.[1] Ageing occurs at many levels –social, psychological, physiological, morphological, cellular and molecular levels. Change in protein metabolism could be the major result of age related difference and would have far reaching effects [2] In general protein synthesis declines with age and turnover also declines. Liver plays a major role in protein synthesis and degradation.

Aim: To find the effect of ageing on liver functions

Objectives

- 1. To perform SGPT, SGLT Aand ALP in different age groups in both the sexes
2. To compare and analyse the values.

Materials

Around 120 healthy subjects, aged between 21 yrs and 90 yrs were recruited for the study after obtaining written informed consent. They were classified into 7 groups namely 21-30yrs as groupI, 31 to 40 as group II, 41 to 50yrs as groupIII, 51 to 60 yrs as group IVgroup, 61 to 70 yrs as group V, 71 to 80 yrs as group VI, 81 to 90 yrs as group VII. All the subjects were healthy with no history of Diabetes and hypertension. They were not suffering from any other illness or any drug intake.

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Their liver function test namely SGOT, SGPT and ALP were performed after obtaining early morning sample. They were analysed by auto analyser.

RESULTS

Table 1 showing the comparison of SGOT (IU/L) in different age groups

Table with 3 columns: Age In Yrs, Number, Mean Sgot (IU/L). Rows include age groups 21-30, 31-40, 41-50, 51-60, 61-70, 71-80, 81-90.

Table 2 showing the comparison of SGPT (IU/L) in different age groups

Table with 3 columns: Age in yrs, Number, MEAN SGPT (IU/L). Rows include age groups 21-30, 31-40, 41-50, 51-60, 61-70, 71-80, 81-90.

Table 3 showing the comparison of ALP (IU/L) in different age groups

Table with 3 columns: Age In Yrs, Number, Mean ALP (IU/L). Rows include age groups 21-30, 31-40, 41-50.

51-60	18	142
61-70	21	150
71-80	16	143
81-90	3	220

References

1. Comfort A 1979 .The biology of senescence .3rd edn- Eisevier, New York
2. Wyllie A.H, Duvall E, Blow JJ 1984 Intercellular mechanisms in cell death in normal and pathological tissues. In : Davies I, Sigeo (DC (eds) cell ageing and cell death. Cambridge University Press, Cambridge, p. 269 - 294.

DISCUSSION

We can find from the table that the values are very close among the age groups they are not statically significant.

CONCLUSION

The liver function and integrity is not affected as the age.

How to cite this article:

Renuka Devi.M.R and Saikumar P (2018) 'Effect of Ageing on Liver Function', *International Journal of Current Advanced Research*, 07(3), pp. 10832-10833. DOI: <http://dx.doi.org/10.24327/ijcar.2018.10833.1855>
