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Comparison of serum lipid level in ischemic and hemorrhagic stroke S.GH.Mortazavi Moghaddam K.Ghandhari Ar.Saadatjoo

*Abstract

Background: Although serum lipids are an independent risk factor for arteriosclerosis, the relation between serum lipids and CVA has not been clarified.

Objective: This study aimed to compare the serum lipid profile in patients with ischemic and hemorrhagic CVA.

Methods: This is a descriptive project included 60 patients of hemorrhagic and 60 of ischemic stroke on the first day after hospital admission at Emam Reza hospital in Birjand(Iran) over a period of 1 year from April 2000 to April 2001. Exclusion criteria were smoking, overt diabetes, cardiovascular disease, and patients on antihypertensive and lipid lowering drugs. Types of stroke investigated by CT scanning and serum lipids level (Ch, TG, HDL, LDL) were measured in the morning of night fasting on the first day after admission. Analysis of data was done by student t-test.

Findings: Total cholesterol level was 180±6.26 and 187±5.9 and HDL-Ch level was 64.8±2.56 and 56.25±2.4 in patients with hemorrhagic and ischemic CVA respectively (P<0.05). On comparing the other lipid levels between cerebral hemorrhage and ischemia no significant difference was observed

Conclusion: We come in conclusion that higher HDL-Ch and lower total cholesterol levels are associated with hemorrhagic stroke. This verifies the protective role of atherosclerosis effect of cholesterol on preventing of hemorrhagic stroke.

Key words: Cerebral Infarction, Cerebral Ischemia, Arteriosclerosis, Lipids, Serum

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Cobasmiraplas $LDL \qquad . \qquad (3)$ $- (HDL-Ch+\frac{TG}{5}): \qquad . \qquad . \qquad .$

t SPSS (4).
0/05 P (11 10 9 8 7 6 5)

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. 68±12

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| | p<0/05 | $187 \pm 5/9$ | $180 \pm 6/2$ | |
| | p>0/05 | $125 \pm 8/7$ | $123/5 \pm 9/2$ | |
| | p<0/05 | $56/2 \pm 2/4$ | $64/8 \pm 2/5$ | HDL |
| | p>0/05 | $102/2 \pm 4/9$ | $100/7 \pm 5/2$ | LDL |
| 3 | 3 | (13) 38050 | HDI | * |
| | (4.1) | 167 | | |
| | (14) | | . 65 | |
| 13 | 5 | | (12) | 359 |
| | 8 | (15) | 60 | |
| | 69 50 | 28519 | (27) (| 86) |
| | | (16) | (| 14) (6).(35) |
| | 977 | | 100\ | • |
| | > | | 180) | |
| | | (5) | 50 | |
| | HDL | | | 7 |

HDL HDL LDL (19) LDL 295 21 8586 241 HDL HDL (20) (10) 60 HDL (21 3) LDL HDL HDL HDL HDL 45 13000 450 (4) 105 (22) LDL HDLHDL 74 31 (a) (17) 150 150 : (18)

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