

论著

血浆载脂蛋白A5水平与HDL亚类分布的关系

Published at: June 20, 2014 [2014年第34卷第3期](#)韩瑛¹, 陈志军², 唐伟军³, 龙石银⁴, 卢新华⁵, 邓华菲⁶, 王岐本³, 田英⁴¹ 湘南学院基础医学部机能学实验室, 湖南 郴州 423000; ² 湘南学院南岭药用资源研究所, 湖南 郴州 423000² 3. 郴州市第一人民医院病理诊断中心, 湖南 郴州 423000³ 湘南学院南岭药用资源研究所, 湖南 郴州 423000⁴ 南华大学生物化学与分子生物学教研室, 湖南 衡阳 421001⁵ 湘南学院基础医学部机能学实验室, 湖南 郴州 423000; 湘南学院南岭药用资源研究所, 湖南 郴州 423000⁶ 湘南学院基础医学部机能学实验室, 湖南 郴州 423000**通讯作者** 英田 Email: uscty@163.com**DOI:** 10.11714/j.issn.2095-6959.**基金:**

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摘要

目的: 探讨载脂蛋白A5(apolipoprotein A5, apoA5)水平对HDL亚类分布的影响。方法: 采用酶联免疫吸附法(enzyme-linked immunosorbent assay, ELISA)和双向电泳免疫印迹检测法分别检测310例受试者的血浆apoA5浓度和HDL亚类相对含量。受试者按apoA5浓度均值加或减去一个标准差作为分割点, 分为高apoA5组(apoA5 \geq 286.83 mg/L), 中apoA5组(139.99 mg/L \leq apoA5<286.83 mg/L)和低apoA5组(apoA5<139.99 mg/L)。结果: 与高apoA5组相比, apoA5低浓度组pre β 1-HDL和HDL3a含量显著升高(P<0.01), HDL2a和HDL2b显著降低(P<0.01)。结论: 随着血浆apoA5浓度降低, HDL亚类有变小的趋势, apoA5浓度降低可能阻碍了HDL亚类的成熟。

关键词: [HDL亚类](#) [载脂蛋白A5](#) [双向电泳-免疫印迹检测法](#)

Relationship between apoA5 level and HDL subclasses

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Abstract

Objective: To explore the relation between the apolipoprotein A5 (apoA5) levels and subclasses of high density lipoprotein (HDL). **Methods:** The plasma level of apoA5 was detected by enzyme-linked immunosorbent assay (ELISA), and the HDL subclasses were measured with two-dimensional electrophoresis immunoblot in 310 subjects. According to the apoA5 level, the subjects were divided into three groups: a high level of apoA5 ($\text{apoA5} \geq 286.83$ mg/L) group, a medium level of apoA5 ($139.99 \leq \text{apoA5} < 286.83$ mg/L) group and a low level of apoA5 ($\text{apoA5} < 139.99$ mg/L) group. **Results:** Compared with the high level of apoA5 group, pre β 1-HDL and HDL3a were significantly increased ($P < 0.01$), while HDL2a and HDL2b were significantly decreased ($P < 0.01$) in the low level of apoA5 group. **Conclusion:** With the decreased plasma level of apoA5, the particle size of HDL shows a shift toward smaller size, and the decreased apoA5 may suppress the mature metabolism of HDL.

Keywords:

[high density lipoprotein subclasses](#)

[apolipoprotein A5](#)

[two dimensional gel electrophoresis-immunodetection](#)

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