

عنوان مقاله:

Hypercholesterolemia role of vitamin D³ and genistein effect in reducing atherosclerosis in rat

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نویسندگان:

Azam Mansouri

Akbar Vahdati

Mehdi Nematbakhsh

Jamal Moshtaghian

خلاصه مقاله:

Introduction: Atherosclerosis has been identified as the most agents for premature death and disability and of its injuries is growing masses of fatty materials with fibrous connective tissue and deposition of calcium salts and other blood materials. To do research on atherosclerosis, in creating hypercholesterolemia animal model is important. Methods: In this wxperimental study, ۴ groups of rats were used (n=۱۲). Group ۱ and Group ۲ received food-based dietary and Group ۲ addition of it, received ۲% cholesterol and ۰.۵% colic acid. Groups ۳ and ۴ in addition to the group ۲ food, respectively. Vitamin D^۳ (۳۰۰۰۰۰IU/Kg BW) and vitamin D^۲ (۱۵۰۰۰۰IU/Kg BW), received group ۳ had the highest cholesterol levels after ۶ weeks that were distributed to ۳ subtypes A, B and C. A subgroup received previous diet, and subtypes B and C, in addition to the previous feed, respectively received genistein with doses ۱.۵ and ۳ mg/kg BW for ۶ weeks. For statistical analysis of the data ANOVA and LSD tests were used and P<۰.۰۵ was considered significant. Results: In the first stage there were significant differences in cholesterol, LDL, LDL/HDL and atherogenic index between experimental and control groups and also between group ۳ and other two treatment groups that is the effect of vitamin D^۳ for hypercholesterolemia model. The Second stage, revealed the effect of genistein to reduce the cardiovascular damage. Conclusion: Vitamin D^۳ is one of atherogenic factors that if it be accompanied with high cholesterol, can be caused atherosclerosis similar to human that can be used for studying related to atherosclerosis. Types of isoflavones in diets can reduce atherosclerotic damages due of vitamin D^۳ accompanied with high cholesterol.

کلمات کلیدی:

Rat, Atheosclerosis, Vitamine D^۳, Vitamine D^۲, Rat, Atheosclerosis, Vitamine D^۳, Vitamine D^۲

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