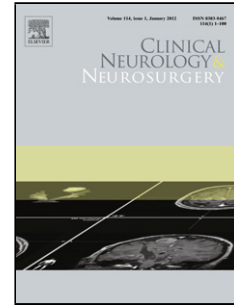


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VDR and GC gene polymorphisms modulate the risk of lumbar disc degeneration in Iran

Running Title: VDR and GC gene polymorphism in Lumbar Disc Degeneration

Sohail Mashayekhi¹, Alia Saberi^{1, 2*}, Zivar Salehi^{3, 1}, Gelareh Biazar⁴, Roghayeh Mehrdel²

¹Neurosciences Research Center, Poursina Hospital, Guilan University of Medical Sciences, Rasht, Iran.

²Department of Neurology, Faculty of Medicine, Guilan University of Medical Sciences, Rasht, Iran.

³Department of Biology, Faculty of Sciences, University of Guilan, Rasht, Iran.

⁴Anesthesiology Research Center, Guilan University of Medical Sciences, Rasht, Iran.

***Corresponding author:** Neurosciences Research Center, Poursina Hospital, Guilan University of Medical Sciences, Rasht, Iran. Tel: +981333368646. Fax: +981333368646

e-mail: alia.saberi.2@gmail.com

Highlights:

- VDR and GC polymorphism were genotyped for 180 patients with LDD and 230 controls by PCR-RFLP.
- VDR AA homozygous genotype is associated with the increased risk of LDD.
- The minor allele of GC rs7041 is associated with a decreased risk of LDD.

Abstract

Objective: Lumbar disc degeneration (LDD) occurs commonly in humans. Vitamin D metabolic and signaling pathway plays a significant role in intervertebral disc degeneration. The aim of this study was to evaluate the influence of the genetic polymorphism in the two key genes of 1,25-(OH)₂-D₃ pathway, VDR (vitamin D receptor) and GC (group-specific

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