



14239-Review

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1 Name of journal: *World Journal of Ophthalmology*
2 ESPS Manuscript NO: 14239
3 Columns: Original Article
4
5 *Randomized Controlled Trial*
6 **Anticataractogenic effect of hesperidin in galactose-induced cataractogenesis in**
7 **Wistar rats**
8
9 Ramar Manikandan, Arumugam Munuswamy
10
11 **Abstract**
12 **AIM:** To explore the anticataractogenic potential of hesperidin a flavanone in galactose-
13 induced cataractogenesis.
14
15 **METHODS:** In this study, cataract was induced by administering galactose enriched
16 food in a set of rats. Effect of different dosages of hesperidin (25, 50 and 75 mg/kg body
17 weight) administered simultaneously with galactose in prevention of cataract was
18 determined in another set. In both sets of animals, the levels of peroxidation, oxidants
19 (NO and OH), antioxidants (enzymatic: SOD, catalase, GST, GPx and non-enzymatic:
20 reduced glutathione, vitamin E), aldose reductase and sorbitol were determined in the
21 eye lens. In addition, glucose and LPO levels were also tested in serum. The
22 quantitative changes in lens iNOS and its expression were also determined using

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