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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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