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## Obesity

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## Effects of water extract of garlic on cholesterol transporter in the intestine of obese mice

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G arlic is one of the famous herbal plants which have showed bene cial properties on atherosclerosis risk factors. Some components of garlic suppress cholesterol and triglyceride biosynthesis and its absorptin, resulting in lowering of serum cholesterol and triglycerides and increase in HDL level. However, the mechanism of these speci c properties is not fully understood. In the small intestine, ATP-binding cassette transporters G5, G8 and A1 (ABCG5, ABCG8 and ABCA1), as well as Niemann-Pick C1 like 1 (NPC1L1) protein has important roles in cholesterol metabolism. In this study, we evaluated the bene cial e ect of aqueous extract of garlic on lipid pro le and also expression of npc111, abca1, abcg5 and abcg8 genes in the intestine of N-Marry mice fed a high cholesterol diet as a possible mechanism of garlic e ect. Mice were randomly divided into three groups (n=8): Group 1: high cholesterol diet (HCD, or obsese) (received chow + 2% cholesterol + 0.5% cholic acid); high

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