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Effects of glucose metabolism and antioxidant metabolism of functional rice Keununjami in menopause induced rats

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In the case of menopausal women with early menopause symptoms include insomnia, muscle pain, depression, hot flashes and other symptoms appear. So this study is to improve these symptoms and to identify glucose metabolism and antioxidant metabolism of the high functional rice (pigmented rice) in "Keununjami". The experiment used rice bran in 70% ethanol extract. After the Sprague-Dawley female rats were randomly assigned in to groups like SHAM (not ovariectomized; Sham-Control), OVX-AIN76 (ovariectomized; feed is AIN76), OVX-KN (ovariectomized; feed is Keununjami rice bran extract). First result include glucose metabolism: G6pase, PEPCK of glucose metabolism experimental result of kidney tissue ovariectomized Keununjami rice bran extract diet group showed a significantly lower value. Second result is antioxidation metabolism: The antioxidation experiment of liver tissue, GPx, CAT, GR, PON showed a high value Keununjami rice bran extract diet group compared with AIN76 expression group in the ovariectomized group. A result of the antioxidation experiments of kidney tissue, CAT, GR, the case of PON, among ovariectomized formula group, the AIN76 diet group and pigmented rice bran extract diet group showed a significant difference, of pigmented rice bran extract diet group case of GR, Keununjami rice bran extract expression in the middle, the military showed a significantly higher value. This has a positive effect on glucose metabolism, antioxidant compared these results with those Keununjami rice bran extract on a regular diet group.

Biography

Su-Jin Nam has completed her Master's degree from Kyungpook National University of Food Science and Nutrition. She mainly focuses on high functional rice. Presently, she is pursuing her PhD in Food Science and Nutrition at Kyungpook National University.

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