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Oriental Medicine and Ageing & Adult Disease in the 21st Century

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The radiation was irradiated in the pregnancy mice in the organogenesis stage, and the examination of radiation protection effect was done by this research such as from the embryonic death, external malformation and fetal body weight to the effects of the individual level. In this research, Enterococcus/Faecalis 2001 (EF2001) which has been used as the anti-cancer medicine, the immunity reinforcement medicine, and so on since former times in the Western countries, that it paid attention to it as a radiation protection medicine. A control group and a sham control group, a radiation irradiation group and EF 2001 were given, and a 2 Gy radiation irradiation group was compared, and a clear difference in some thought was recognized as the embryonic death rate (P<0.001). Moreover, EF 2001 was given in comparison with the radiation irradiation group, and obviously a 2 Gy irradiation group was low as for the embryonic death rate. Each irradiation group was compared with the control group and the sham control group, and a clear difference in some thought was recognized as the external malformation occurrence rate (P<0.001).

As for the fetal body weight, the rate of low weight fetus was high in comparison with a control group and a sham control group and the EF 2001 medication radiation irradiation group in the group that a radiation was irradiated.

Therefore, effect on radiation protection was explained in this research in the embryonic death, malformation and fetal body weight.