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 전국한의과대학 교육 협의회

P-2. The Study of Radiation Protection Effect on Enterococcus/Faecalis 2001 to Malformation of the Radiation in the ICR Mice

Yeunhwa Gu* · Takeo HASEGAWA* · Ikukatsu SUZUKI** · Kenichi BAMEN*** and
Toshihiro IWASA***

* Dept. of Radiological Technology, Suzuka University of Medical Science

** Dept. of Clinical Nutrition, Suzuka University of Medical Science, Japan

*** Research Institute, Bio Queen Co. Ltd, Tokyo, Japan

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.