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Homozygous Pelger-Huet anomaly in three different crossbred rabbits: a case report

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[fulltext]

In this case report, three different crossbreedings of pet rabbits were performed producing affected as well as healthy bunnies. All affected rabbits were smaller and had local alopecia, exophthalmus, and limb deviations compared to their healthy littermates; thus, a homozygous form of Pelger-Huet anomaly was suspected. This anomaly was confirmed by blood examination in which granulocytes with oval nuclei and a very coarse chromatin pattern, as well as lymphocytes with micronuclei were noticed. Karyotype analyses of the lymphocytes revealed many chromosomal aberrations in affected

abnormalities in the pelvic cavity and proximal part of the pelvic limbs were also found in these rabbits. Our findings suggest a multigenic origin of Pelger-Huet anomaly in rabbits, because only male and female offspring with the otter colour of fur were severely affected by this congenital disorder.

Keywords:

laboratory animals; hereditary disease; chromosome; leukocytes; anatomical anomalies

[fulltext]