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Veterinari Medicina

Treatment of canine hip dysplasia using triple pelvic osteotomy

K. Altunatmaz, R. Yucel, Y. Devecioglu, M. Saroglu, S. Ozsoy

Veterinari Medicina, 48 (2003): 41-46

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In this study, triple pelvic osteotomy (TPO) was carried out in a total of 22 dysplastic dogs, of which 9 were treated bilaterally and 13 unilaterally, and the position of the acetabulum was changed in a total of 31 hip joints using a special plate. It was established that, of the treated hip joints, 16 had severe, 12 medium and 3 mild dysplasia, the Norberg angle was between 70–92° and that the covering rate of the acetabulum over the femoral head changed between 5–42°. In the radiographs taken immediately after the operation, the covering rate of the acetabulum over the femoral head was determined to be very good in 25 hip joints (75% and over) and

some of the screws holding the plate in place were seen to loosen in radiographs. However, this did not have any effect on the angle given to the acetabulum. In radiographs obtained 6–48 months later, degenerative joint disease was not encountered in 29 cases, with the exception of 2 cases. It was concluded that hip dysplasia, which is a hereditary disease, can be treated reasonably successfully in young dogs with TPO carried out before degenerative changes begin to occur in the joint.

Keywords:

hip dysplasia; triple pelvic osteotomy; dog
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