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TRANSLOCATOR PROTEIN IN AORTA OF APO E KO MICE BINDING CAPACITY OF THE MITOCHONDRIAL 18 KDA ATHEROSCLEROTIC PLAQUE COMPOSITION AND CHOLESTEROL DIET EFFECTS ON

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Introduction

production and steroidogenesis. Dysregulation of apoE in humans and animals is associated with several conditions that in separate studies also have been linked to volved in the regulation of cholesterol transport into mitochondria in relation to bile lism. In addition, it has indicated that 18 kDa translocator protein (TSPO) is in-TSPO function. Apo E has long been known to play a key role in cholesterol transport and metabo-

Materials and Methods

gycal examination were carry out. altered TSPO binding characteristics in aorta tissue. Biochemical and histopathololesterol supplementation in the diet for a period of 10 weeks, can be correlated with (C57BL/6 Apolipoprotein E knockout mice), whether Apo E deficiency and 3% cho-With the present study we sought to address in the 5 weeks old animal model

comparing to the control counterparts. with calcifications. The in vivo findings in apoE knockout mice revealed that TSPO ing of aorta's wall, accelerated atherosclerosis and deposition of cholesterol crystals levels appear to be reduced in aorta of Apo E KO mice treated with cholesterol diet Feeding ApoE KO mice with high -cholesterol diet results with significant thicken-

Although these data suggest reduced density of TSPO in aorta of Apo E KO mice, the potentially modulating role of 18kDa TSPO in the arterial wall deserves further

> PRELIMINARY STUDIES ON PATHOLOGICAL FEATURES INTERVERTEBRAL DISKS DEGENERATION: OF 42 SURGICAL SPECIMENS

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Introduction

Intervertebral disks (ID) can exhibit normal aging changes and degenerative alterations leading to disk extrusion into the spinal canal.

Materials and Methods

(CD) and non chondrodystrophoid (NCD) dogs - by means of the Fisher test. comparing the observations between spinal level and breed - chondrodystrophoid The authors report the histological features of n. 42 canine spinal surgery specimens

Results N.22 ID of CD and n. 20 ID of NCD, aging from 3 to 12 years old, were evaluated. N. 34 samples were collected in thoracic/lumbar spine, and n. 8 in cervical spine. degenerate matrix occurred frequently (72.7% of CD e 45 % dei NCD). Chondroid lamellar structures of anulus fibrosus or cartilaginous laminae. Chondroid clusters in N. 40 samples were composed mainly by nucleus pulposus; two specimens showed metaplasia was detected in 80.5% of cases; it was significantly more frequent in CD (94.7%), but it was also present in 64.7% of NCD. Calcium deposits were observed in features were chondroid metaplasia and calcium deposits in NCD. in 71.43% of cases. In contrast with the literature (Hansen, 1952) the most interesting 100% of CD (80% I NCD). Granulation tissue and neovascularisation were detected

Conclusion

A breed predisposition could induce the chondroid metaplasia, but probably a multifactorial aetiology induces disk degeneration. Further investigations are in progress in order to verify this hypothesis.

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