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Hypotrichosis Associated with Congenital Goiter, in an Aborted Bovine

**Fetus** 

Sohail Eiaz, Hee-Jin Park, Chae-Woong Lim, Byeong-Kirl Baek and Byoung-Moo Rim

Biosafety Research Institute, College of Veterinary Medicine,

Chonbuk National University, Korea

Hypotrichosis of non-genetic origin associated with congenital goiter was diagnosed in an

aborted bovine female fetus, presented to diagnostic laboratory by a local veterinarian. The

fetus had sparse hairs only in sharp defined regions including the muzzle, eyelids, pastern, tip

of tail, ears and umbilicus. The thyroid glands were extensively enlarged and incisors were

covered by gingiva. Radiographs of aborted fetus showed the presence of an extra rib on

lower left side. Pathological examination of skin samples taken from multiple standardized

sites revealed reduced density of hair follicle. Smaller sized hair follicles were present but all

were in the telogen phase. The density of apocrine sweat glands was markedly reduced and

appeared slightly dilated and less tortuous than usual. Sebaceous glands and arrector pili

muscles were normal. Histologic changes in thyroid glands included reduced follicular luminal

diameter, markedly reduced luminal colloid, hypertrophy of follicular epithelium, follicular

dysplasia and moderate to marked degree of diffuse hyperplastic goiter. Cause of death of

fetus was not determined, but was presumed to die from disorders associated with the thyroid

lesion or dystocia.

Corresponding author: Chae-Woong Lim(063-270-2563, E-mail:lcw@chonbuk.ac.kr)

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