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**CORTICAL CEREBELLAR DEGENERATION OF THE  
GRANULAR LAYER IN CATTLE  
— MICROSCOPIC EXAMINATIONS OF UNSELECTED  
SLAUGHTERED AND AUTOPSY CASES —**

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The majority of 120 cattle from which the brains (cerebella) were examined microscopically consisted of slaughtered adult female Holstein-Friesians suffering from extreme malnutrition. There was cortical cerebellar degeneration of the granular layer in 6 cases out of 10 killed and 9 of 12 died, out of 22 routine autopsy or verification cases, and in 58 out of 98 unselected slaughtered cases which were divided into 23 series according to conditions in obtaining and treating the cerebellum. The degeneration existed in 64 cases out of all the killed cases (108).

The primary existence site of the degeneration was in the vermis and the degeneration occurred more frequently in the culmen and declive. With degeneration and loss of granule cells, Golgi cells and Purkinje cells frequently underwent ischemic degeneration. Nerve cells in the cerebellar and lateral thalamic nuclei also frequently underwent ischemic degeneration. Vascular nerve degeneration consisting of beaded swelling, fine-vesicle formation, etc. in axons was frequently observed in the cerebellar and basilar arteries.

In order to understand better the cortical cerebellar degeneration of the granular layer in cattle, further investigations on various conditions necessary for obtaining and treating the brain (cerebellum) materials should be made.