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Retrospective analysis of central and eastern black sea region ruminants in terms of copper deficiency

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Abstract

Diseases due to copper deficiency (enzootic ataxia, swayback, bowleg) which led to extremely high levels of lamb death were first detected in 1961 at a state farm in Karaköy, Samsun. In subsequent studies, it was found that they caused lamb death in the delivery season with a rate of 30-40%. According to another study conducted in five different geographical regions (1996), the lowest plasma copper concentration in sheep and cattle was found in Samsun and Sivas. Since 1961, many researchers have been interested in the subject and studies have been conducted. Samsun Directorate of Veterinary Control Institute serves 9 provinces in the region with the Biochemistry Laboratory established in 2004. In addition, information is obtained about the mineral substances in the region with TAGEM projects carried out. The aim of the present study is to evaluate the region in terms of copper by retrospectively examining the sample results that have been sent to our institute in the last five years. Serum and liver samples of cattle, sheep and goats which were sent to our institute for analysis were analyzed with AAS-FL (Atomic Absorption Spectrophotometer flame system) in our laboratory. The results were arranged according to reference value range. According to the data records of our institute between 2014-2019 (first four months), copper deficiency was found in 65.3% of cattle samples, 44.73% of sheep samples and 66.6% of goat samples which were sent with suspected copper deficiency. According to the results of data, it was found that although previous studies have created awareness, copper deficiency is still a problem in our region.

Keywords: Copper deficiency, black sea, Samsun, ruminant

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