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Aggressive form of Mammary Squamous Cell Carcinoma in Sheep

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Squamous Cell Carcinoma (SCC), is a malignant type of tumor of epithelial origin, deriving from keratinocytes and widely reported in all domestic animals. The objective of this study to represent a case of mammary gland squamous cell carcinoma in a sheep for the first time. Mammary gland of 4 -year old female native sheep was presented from a slaughterhouse for pathological examination with history of a tumor in right udder. The tumor tissue was rounded irregularly shaped and cauliflower-like appearance in the left side of udder, ulcerated with myiasis and bad odour. On cut-section, reddish white fleshy surface observed in the mass which showing invaded to deep parenchymatous tissue of the infected udder. Histopathological examination revealed aggressive proliferative and invasive form of a well differentiated squamous cell carcinoma of the udder. The tumor cell was large and had an abundant eosinophilic cytoplasm with enlarged hyperchromatic nuclei. The tumor tissue produce huge amounts of keratin, resulting in the formation of extracellular keratin pearls. Also, the tumor cells showed hyperchromatism and diffused mitotic figure. The gross and histopathological characteristics of the examined udder tumor was diagnosed as squamous cell carcinoma. The real cause of this type of tumor are not clear however, squamous cell carcinoma is observed most frequently in geographic areas characterized by long periods of intense sun exposure. No records about distribution of cutaneous tumors in animal however, many cases of cattle and equine SCC was recorded in the field. In conclusion, we report an aggressive form of udder squamous cells carcinoma in sheep, antimortum and pathological examination of the udder tumors tissue are essential specially in slaughterhouses and epidemiological studies must be carried out.

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