

VETERINARY CONGRESS

July 02-03, 2018 Berlin, Germany

Aggressive form of mammary squamous cell carcinoma in sheep

Youssef Fawzy Ahmed
Cairo University, Egypt

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 myiesis 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.

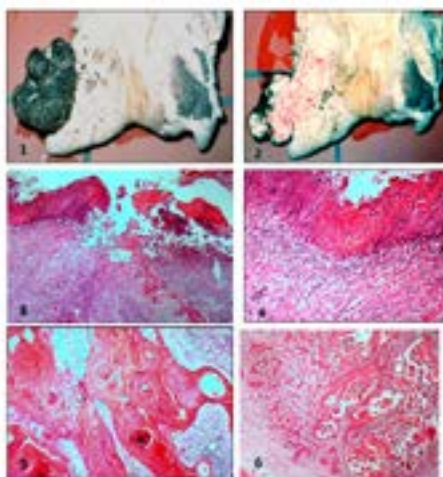


Fig.1: Squamous cell carcinoma of the right udder of a sheep.
Fig.2: Cross section of SCC.
Fig.3: Hyperkeratosis and ulcerati
Fig.4: Hyperkeratosis of the tumour dermis.
Fig.5: Irregular cords or masses of epidermal cells
Fig.6: Diffused keratin pearls

VETERINARY CONGRESS

July 02-03, 2018 Berlin, Germany

Recent Publications

1. Al-shimaa Al-H. H. El-Naby, Karima Gh.M. Mahmoud, Gamal A.M. Sosa, Mahmoud E.A. Abouel-Roos, Youssef F. Ahmed (2017) Effect of using ascorbic acid and cysteamine supplementation on in-vitro development of buffalo embryos Asian Pacific Journal of Reproduction 2017; 6(2): 85-88
2. M. H. Hasanain, Karima Gh. M. Mahmoud, Y.F. Ahmed, A. A. EL-Menoufy, A.M. Sakr, and Othman. E. Othman (2017) Effect of Body Condition Score and PCR-RFLP Polymorphism of Prolactin Gene on Semen Characteristics of Buffalo Bulls (*Bubalus Bubalis*), Egypt. J. Vet. Sci.Vol. 48. No, 1 pp 1- 9
3. Amr M. Abdou1, Sherein I. Abd El-Moez, Youssef F. Ahmed, Ahmed G. Hegazi and Eman H. Eman H. Abdel-Rahman (2017) Antibacterial activity of Commiphora molmol against E. coli O157 infection . Journal of Chemical and Pharmaceutical Sciences ,Volume 10 Issue 2,847-854.
4. Hamdy Soufy, Nadia M. El-Beih, Soad M. Nasr, Tamer H. Abd El-Aziz, Fathia A.M. Khalil, Youssef F. Ahmed,Hala A.A. Abou Zeina (2017) Effect of Egyptian propolis on cryptosporidiosis in immunosuppressed rats with special emphasis on oocysts shedding, leukogram, protein profile and ileum histopathology. Asian Pacific Journal of Tropical Medicine . 10(3): 253–262
5. Osman ME, HY Ibrahim, FA Yousef, AA Abo Elnasr,Y Saeed and AA Abdel Hameed (2017) A study on microbiological contamination on air quality in hospitals in Egypt. Indoor and Built Environment. Article first published online: March 2, 2017

Biography

Youssef Fawzy Ahmed, Prof. Emeritus Vet. Pathology, since 2014 till now, working in the Department of Animal Reproduction and Artificial Insemination, National Research Centre, Cairo. Egypt. He published more than 60 scientific research. He is interesting in the field of pathology of male and female reproduction. The recent work is dealing with pathology of microalgae.

yfahmed54@yahoo.com