

Collagenous Fibroma in an African Lion

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Signalment: An 8-year-old female African lion (*Panthera leo*) weighing about 100kg was referred with chief complaint of skin abscess in the left flank. She has a mass in left flank and it was gradually enlarged for 5~6 months. The mass significantly increased for last one month and fistula developed. Anorexia and weight loss has been observed for a few days before reference.

Results: Surgical excision of the mass was carried out. After surgery, biopsy samples were collected from the mass. Macroscopically, the lesion presented as an elongated, lobulated, or disc-shaped mass with firm consistency and homogeneous grayish-white color. Microscopically the mass was relatively hypocellular and showed proliferation of bland spindle or stellate shaped cells embedded in the fibromyxoid to densely fibrotic collagenous stroma. Mitotic figures were very rare or absent, tumour necrosis was not seen, and vascularity was low. It might be considered as classic collagenous fibroma (desmoplastic fibroblastoma). The stroma might be contained a large amount of mucin. It can be seen as abscesses or cysts like appearances at gross observation.

Clinical relevance: Although this type tumor has been occasionally reported in human beings, this is the first case that was diagnosed as the collagenous fibroma in animal species, upon our knowledge, except for similar cutaneous neoplasms in pet rabbits.

Key words: collagenous fibroma, fibroblastoma, surgical excision, African lion