ACASE OF EAR TUMOR OF WHITE BENGAL TIGER

H Huminto, DR Agungpnyno, E Handthayani, V Jumianti, E Hartina, W Winarsih, S Estuningsih, A Seiyono and BP Priosoeryanto

Division of Pathology, Faculty of Veterinary Medicine, Bogor Agricultural University, Indonesia

Medical team of Ragunan Zoo, Jakarta, Indonesia

Clinical History

Animal: White Bengal Tiger
Age: 22 year
Sex: Male

Since 1 year ago, the tiger was noticed had a subcutaneous tumor mass at its left ear. The nodule was growing bigger and bigger until the size of 10 x 15 x 5 cm. Recently, some small tumor masses were also noticed near its left eye, right ear and dorsal of the head. Signs of loss appetite and lethargy were observed and finally refused to eat for the last 1 week. The tiger then was euthanized with pentobarbitals.

Gross Lesion

Beside the large cutaneous tumor growth at the left ear, there were some small nodules observed within right ear (4 x 2 x 2 cm), at canthus media of the left eye (1 x 1 x 0.5 cm) and at skin of dorsal of the head (3 x 4 x 3 cm). Two white small tumor nodules were also observed in lungs (7 x 15 x 1 cm) and pancreas (1 x 0.5 x 0.5 cm) examination. The lungs were affected by pleur-o-pneumonia, microcalcification and anthracosis. On opening the digestive tract, there were catarhal gastroenteritis and few numbers of cestodes and nematodes. The gall bladder contains sand like choleta. Both kidneys had interstitial nephritis and sand like urate in the pyelum. Accumulated lymphatic fluid was found in the ureter and urinary bladder. Both hip joints had chronic arthrits.

Histopathological Findings

The largest ear tumors mass was observed under the skin epithelium, expand into the dermis and protude to the skin surface, caused skin epidermis become eroded. The mass was circumscribed, surround by collagen stroma. Multifocous granulomatous reaction showed within same area of collagen stroma. The tumor was spindle in shape, arrange in herring bone pattern. The mitotic figures were rare. Some area showed chronic inflammatory reaction. Similar tumor pattern were observed in the smaller tumor of the right ear and at the canthus media of the left eye. Small nodule on the skin of head region was composed of whorled fatty tissue suggesting as lipoma. The nearest auricle lymph node showed intermediate collagen necrosis. There was no tumor metastasis observed within this lymph node or other lymph nodes. The nodes observed within lung and pancreas showed different pattern with the tumor of the skin. The node of the lung composed of amyloid sedimentation and no tumor cell was identified, while the nodule at the pancreas composed of hyperplastic growth of pancreatic duct. Other organs showed various lesion, such lung emphysema and anthracosis cardiomypathy with mild steatitis liver passive congestion and hepatocyte disssociation; penvascular edema of the brain, spleen dejection and congestion while kidney showed severe lesion due to nephrosis pointing toward end stage kidney. The tumor is suggested as neural origin that locally expanding and found in 3 different region of the skin. Further special stain such as histochmistry and immunohistochemistry are set in progress.

Discussion

The stomach of T. a. aequalis is lined with forestomach. The stomach involve squamous + forestomach. They are progressing from papilloma. Neoplasia stomach are relative two gastric tum adenocarcinoma and Stomach of rodent ma neoplasia due to a Vi changes in diet, compounds, penetrate nematodes, fungal inf papillomavirus.