406th CSVP Contributor Diagnosis

Date: Sep 27, 2024

Time: 12 : 00~16 : 00

Place: NCHU

專題演講(12:00~13:00)：病理專科獸醫師-動物法醫實況 (許志勤 病理專科獸醫師)

本次會議組織病理切片資訊： http://140.120.114.107/slidecenter.php?id=546

切片名稱：Case 1. NTU2024-0085C

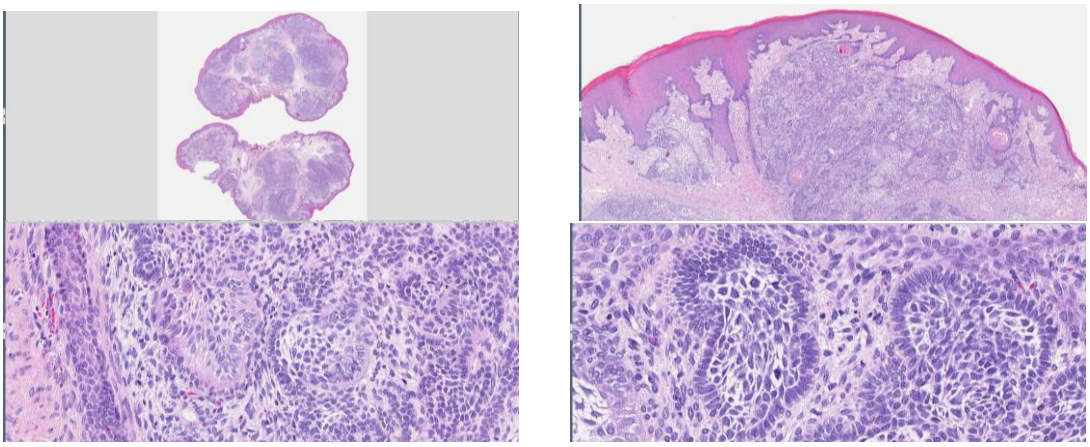
Case 1. CSVP 2024-3248 (NTU2024-1294, GIMCP, C.Y. Tsai and C.H. Shih)

Rabbit, 8 years and 10 months old, female spayed. A carneous 肉的 mass was noted on the oral mucosa of the right cheek. It was mobile, anchored at the buccal mucosa by a stalk, erosive on its surface, and rapidly growing. The spirit, activity and appetite of the patient were unaffected.

Morphologic diagnosis :

Buccal mucosa: epithelium that are arranged in a follicular pattern with prominent peripheral palisading and stellate reticulum or in a plexiform anastomosing pattern and are supported by dense mature fibrous stroma that can be loose and basophilic at the interface and may contain bone.

Neoplastic epithelium forms peripheral palisades with antibasilar nuclei and central stellate reticulum – like cells. Squamous differentiation with keratinization Mineral deposition (Calcification). Parakeratotic hyperkeratosis, hydropic (ballooning) degeneration, with Inflammatory cells: lymphocytes, plasma cells, and macrophages. Surgical margin is free.



Lab. examination:

Congo red (-) excluded Amyloid-producing ameloblastoma

Dx: Ectopic odontogenic-like neoplasm in a rabbit

切片名稱：Case 2. CSVP-2024-9

Case 2. CSVP 2024-3249 (CD24074, ADDC NCYU, W.C. Kung, C.M. Lai, M.H. Huang, and D.Y. Lo)

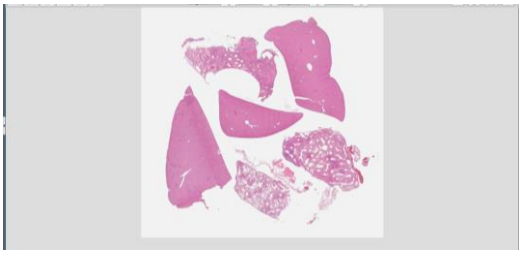
Red feather native chicken,13-day-old, showed signs of gasping and dyspnea since 5-day-old. Mortality was 10% (1,200/12,000).

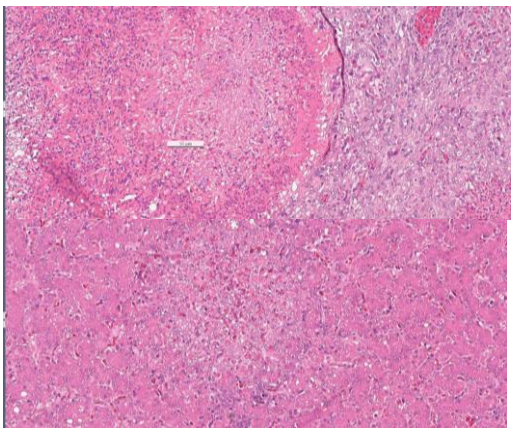
Morphologic diagnosis :

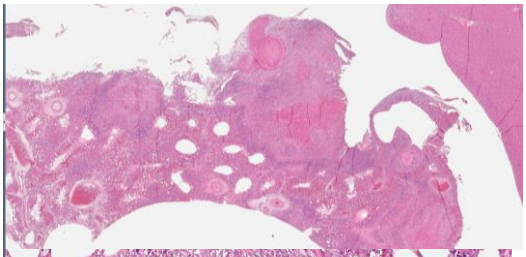
Lung: Pneumonia, granulomatous, multifocal, severe, chronic active, with intralesional segmental and branched fungal hyphae and multinuclear giant cells

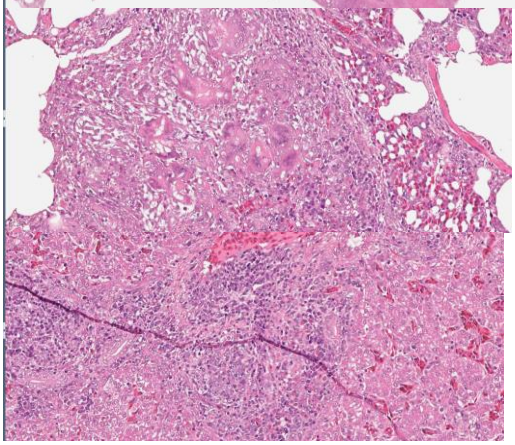
Liver: Hepatitis, necrotic, heterophilic, lymphohistocytic, multifocal, chronic, severe, with fungal hyphae

Heart: Myocarditis, histocytic, locally extensive, chronic, severe









Lab. examination:

Bact. : *Salmonella Pullorum* (+)

PAS: (+)

Dx: Mycotic pneumonia and Pullorum disease in Red feather native chicken

切片名稱：Case 3. 1130607-HG

Case 3. CSVP 2024-3250 (1130607-HG, KCAPO, C.Y. Ma)

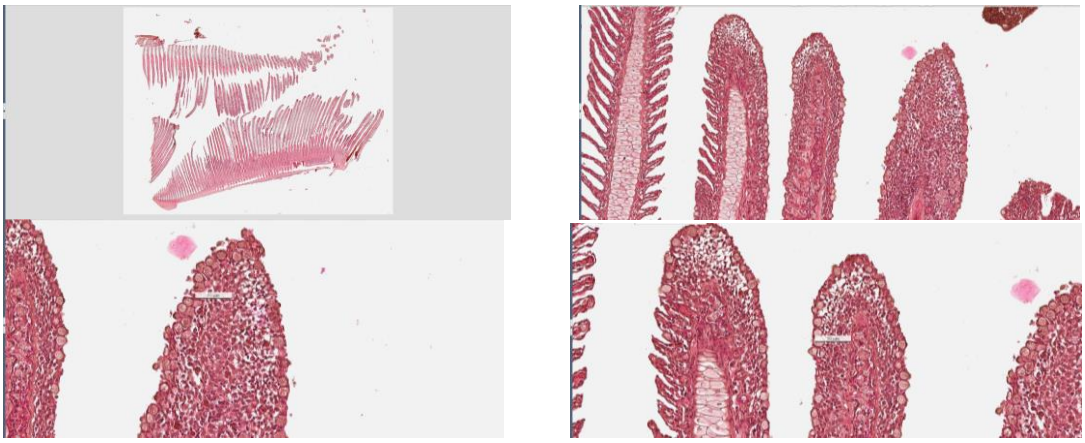
Hybrid groupers (Epinephelus fuscoguttatus x Epinephelus lanceolatus), 20 cm in average. Clinical signs included loss of appetite, floating at the shore of pool and increased mortality. Microscopically, enlarged cells were observed in capillaries of secondary lamellae.

Morphologic diagnosis :

Gills: Inflammation, severe, chronic, locally extensive to diffuse, hemorrhagic, necrotizing, with epithelial hyperplasia, fusion of secondary lamellae, and enlarged cells in capillaries

Liver: fatty change, severe, chronic, diffuse, with lobular disorganization and enlarged cells

Spleen & Kidney: enlarged cells



PCR: red sea beam iridovirus, RSIV (99%)

Dx: Iridovirus infection in hybrid groupers

切片名稱：Case 4. 2024-261-6

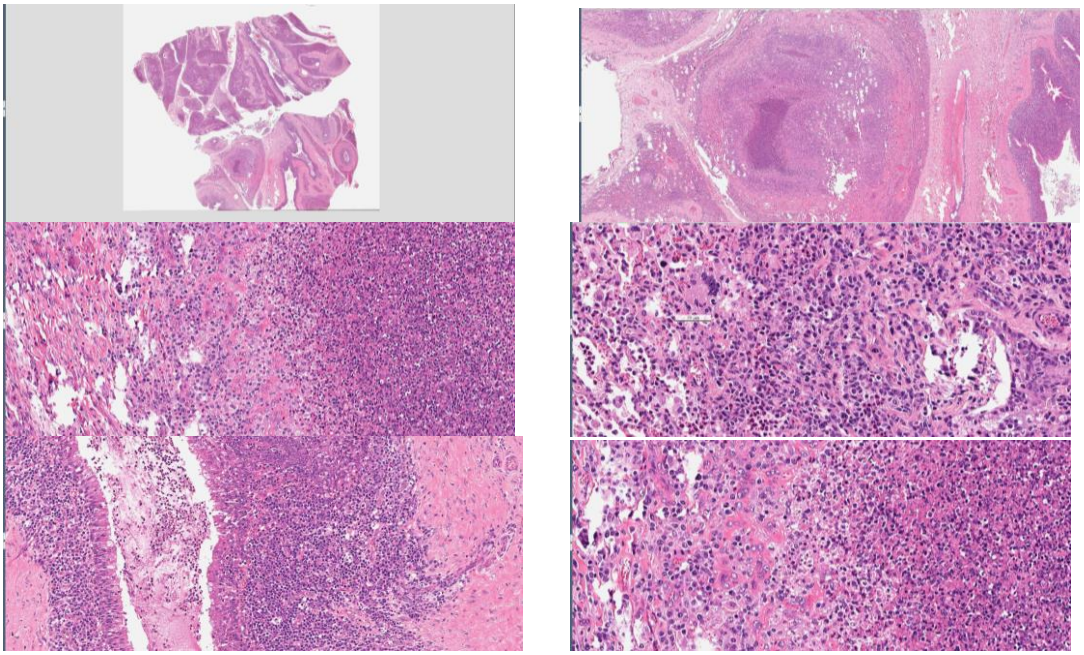
Case 4. CSVP 2024-3251 (2024-261-6, ADDC, VRI & AU, H.W. Liao, Y.C. Tu, N.L. Guan, and Y.W. Chen)

Holstein cattle, 3-year-old. The animal was emaciated and culled by the owner. The cranial-ventral parts of the lung lobes were mottled dark red with a firm texture. Multiple yellow-white, abscess-like nodules were found in the lung parenchyma

Morphologic diagnosis:

Lung: bronchopneumonia, suppurative and necrotizing, locally-extensive, subacute to chronic, severe with marked fibrosis and intralesional bacterial colonies.

Mediastinal lymph nodes: lymphadenitis, suppurative, diffuse, acute to subacute, moderate.



Lab. examination:

Bacteria isolation and identification: *Pasteurella multocida* type A isolated from apical and cardiac lobe of lung

Mycoplasma PCR: *Mycoplasma bovis* (+)

Dx: Bovine Pneumonic Pasteurellosis (*Pasteurella multocida* type A infection)
Concurrent infection with *Mycoplasma bovis*

切片名稱：Case 5. 2024-259-4

Case 5. CSVP 20243252 (2024-259-4, ADDC, VRI & AU, J.Y. Guo. Y.C., Tu, S.C. Hu, and Y.W. Chen)

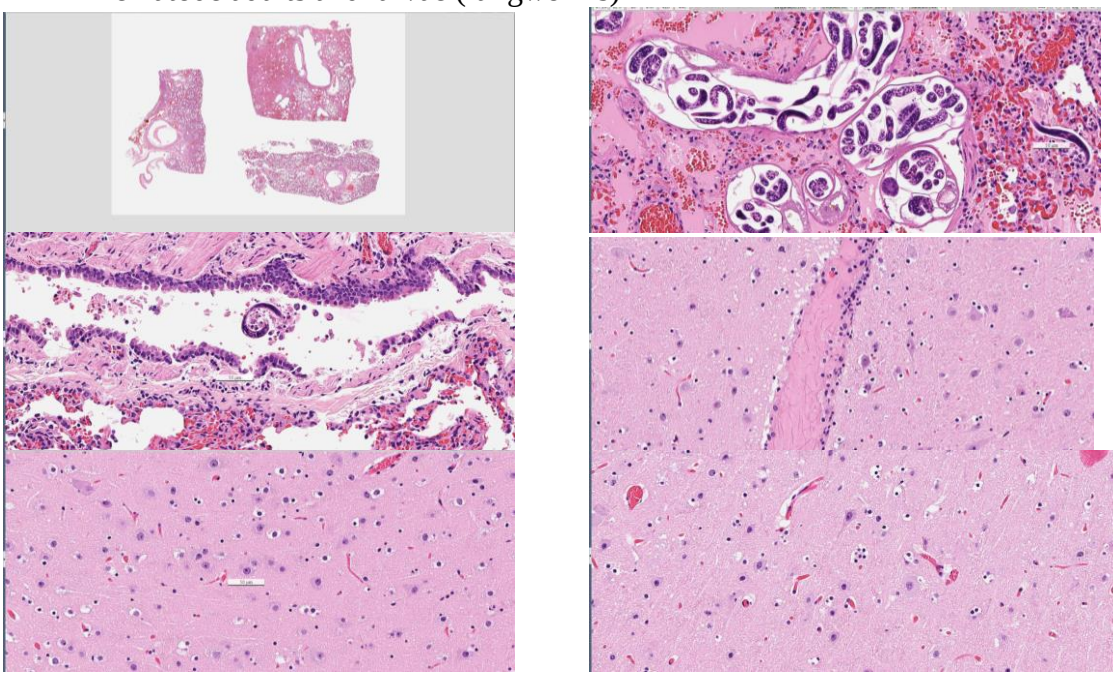
Formosan Ferret-badger 鼬獾, adult. The animal invaded a residence and exhibited aggressive behaviors at midday. Circling and depression were observed. Grossly, the animal was extremely emaciated. No significant lesions were noted in the brain. The lungs were mottled dark red with multiple small white foci.

Morphologic diagnosis:

Cerebrum: meningitis, lymphoplasmacytic, multifocal, chronic, mild, with intraneuronal Negri bodies

Saliva glands: sialadenitis, lymphoplasmacytic, multifocal, chronic, mild-moderate

Lung: pneumonia, verminous and lymphocytic, multifocal, chronic, severe, with pulmonary edema, multifocal hemorrhage, and intra alveolar/bronchiolar nematode adults and larvae (lungworms)



Lab. examination:

Fresh Brain: Direct Immunofluorescence Assay: Rabies (+)

Fresh Brain: real-time RT-PCR：Rabies (+), ct= 19.97; Canine distemper (-)

Lung worm: COX 1 PCR: *Perostrongylus falciformis*

Dx: Rabies Virus and Lungworms Infestation in a Formosan Ferret-Badger

切片名稱：Case 6. CP24-07010B

Case 6. CSVP 2024-3253 (CP24-07010, ADDC NCHU, M.S. Li, C.P. Huang, J.W. Liao and S.C. Ou)

Broiler chicken (Gallus gallus domesticus), approximately ten-day-old, showed neurological symptoms and mild diarrhea in clinic, with the incidence rate being 0.5 %. About 0.3% of the flock was found dead or culled in the end.

Morphologic diagnosis:

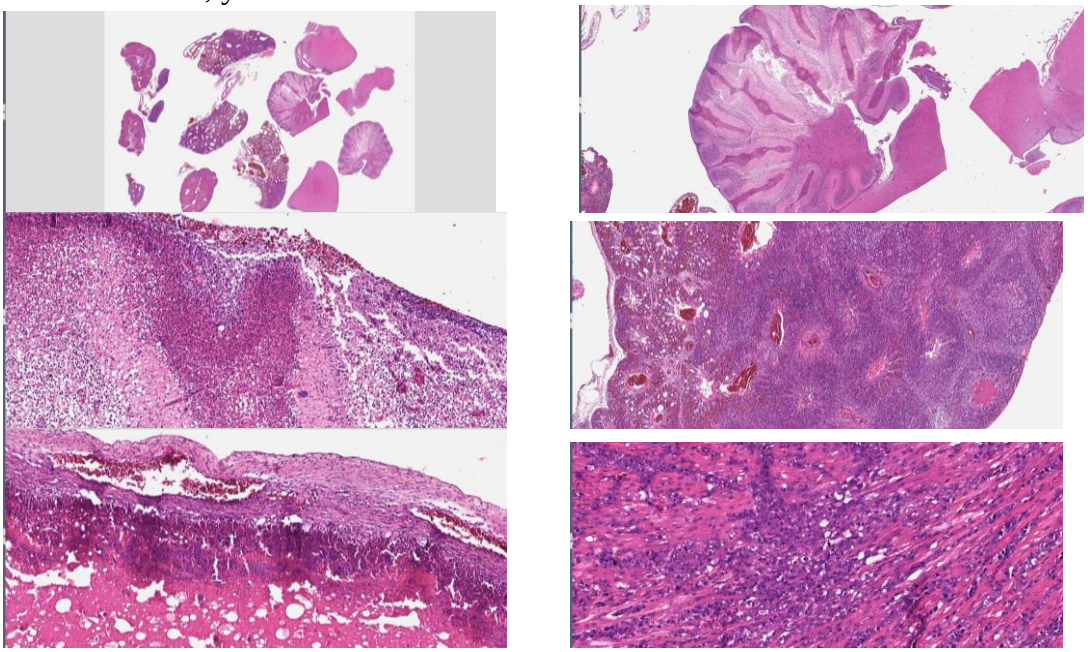
Meningoencephalitis, necrotizing and pyogranulomatous, with vasculitis, severe, chronic-active, multifocal to coalescing, with intralesional rod bacterial colonies, brain

Epicarditis and myocarditis, histiocytic, moderate to severe, chronic-active, multifocal to coalescing, heart

Hepatitis, histiocytic and heterophilic, moderate, chronic-active, multifocal to coalescing, with paratyphoid nodules, liver

Pneumonia, histiocytic and heterophilic, moderate to severe, chronic-active, multifocal to coalescing, with paratyphoid nodules and focal necro-granulomas, lung

Omphalitis, granulomatous, severe, chronic, diffuse, with intralesional bacterial colonies, yolk sac



Lab. examination:

Blood agar, PCR: *Salmonella enterica* (+);invA (+)

Dx: Fowl Paratyphoid of Broilers