

402nd CSVP Contributor Diagnosis

Date: Mar 8, 2024

Time: 10 : 30~16 : 00

Place: VRI

專題演講(10:30~12:00): 病理獸醫師處理動保案件應留意的法醫知識及態度(黃威翔 老師)

本次會議組織病理切片資訊：<http://140.120.114.107/slidecenter.php?id=541>

切片名稱：NTU23-2861A

Case 1. CSVP 2024-3224 (NTU2021-734I, NTU GIMCP, H.Y. Wang and Y.C. Chang)
Oriental dove (*Streptopelia orientalis*), eight oriental turtle doves were found dead in a walk-in aviary. Additionally, the other two birds were euthanized due to the presence of neurological signs such as head twisting. All of these doves were necropsied.

Morphologic diagnosis :

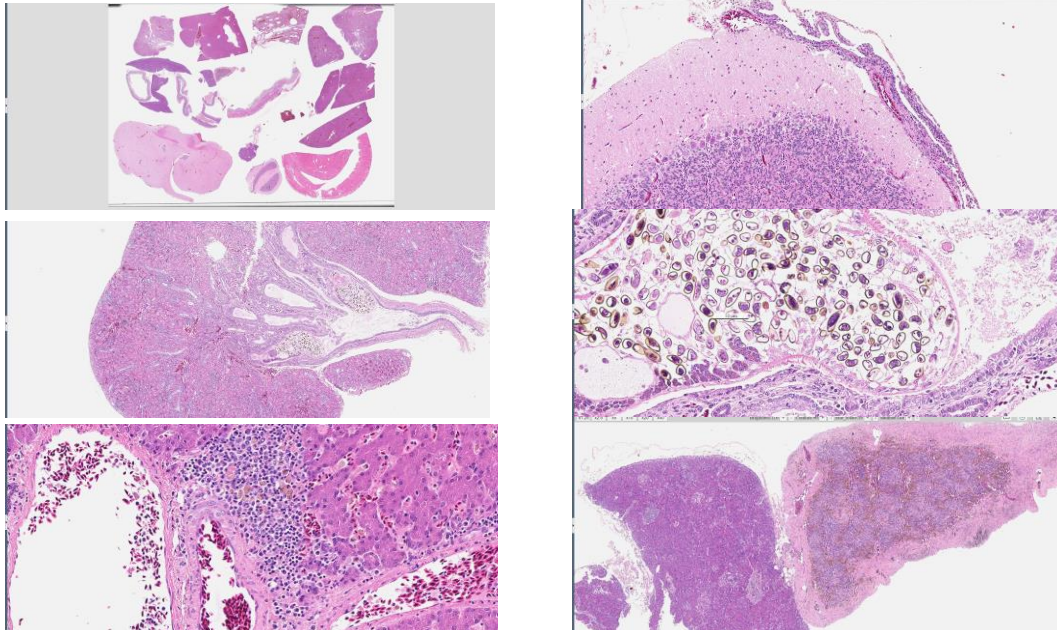
Brain: Meningoencephalitis, lymphoplasmacytic, mild, subacute, multifocal, with perivascular cuffing.

Kidney: Nephritis, lymphoplasmacytic, subacute, moderate to severe, multifocal to coalescing, with trematodes infection

Liver: Hepatitis, lymphoplasmacytic, moderate to severe, subacute, multifocal.

Pancreas : Pancreatitis, granulomatous, multifocal, moderate, chronic, with acinar atrophy and hemosiderosis

Duodenum : Enteritis, diffuse, severe, chronic, cellular debris with oocysts



Lab. examination:

1. Kit : Avian influenza Ag (-)
2. RT-PCR : Avian paramyxovirus 1 Target gene: Fusion protein Amplicon: 210 Base-pair (+)
3. In situ hybridization: kidney, lung, intestine: (+)

Dx: Avian influenza in Oriental turtle doves

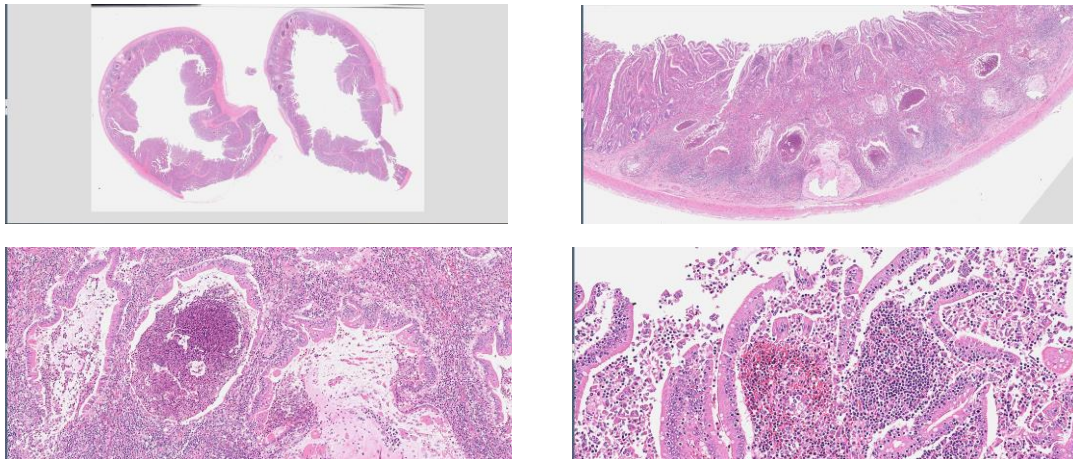
切片名稱：Case 2.CM23-11001K

Case 2. CSV 2024-3225 (CM23-11001, ADDC NCHU, C.P. Huang, J.W. Liao, and H.Y. Chiou)

Holstein cow (*Bos taurus*), 5-month-old, showed signs of anorexia and bloody diarrhea. The morbidity and mortality were about 25% (5/20) and 25% (5/20), respectively.

Morphologic diagnosis :

Ileum: Enteritis, necrotizing, severe, diffuse, chronic, with lymphoid depletion, crypt necrosis, and focal mild coccidia infection



Lab. examination:

RT-PCR:

M: DNA marker

1: Sample BVDV (+) Sequencing result: BVDV 1b

Dx: Bovine viral diarrhea (BVD) -mucosal disease in a Holstein calf

切片名稱：Case 3. CT23013-1

Case 3. CSVP 2024-3226 (CT23013, ADDL NCYU, C.W. Wu, H.C. Kuo, M.H. Chang, and D.Y. Lo)

Nursery pig, 8~9-week-old, showed signs of cough, dyspnea and joint swelling. The prevalence was 10% (40/400).

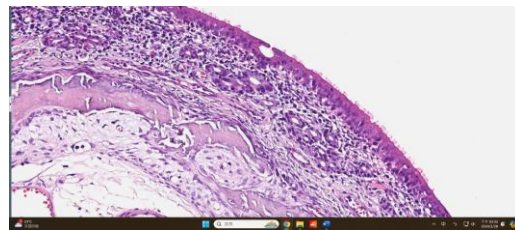
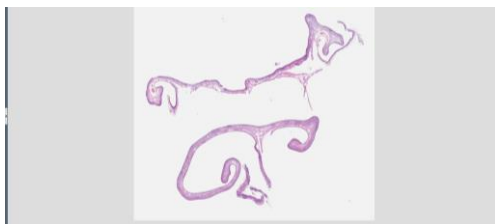
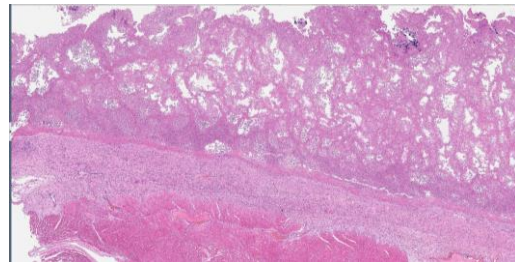
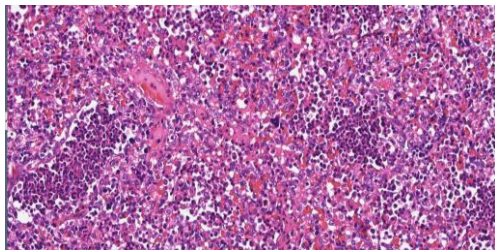
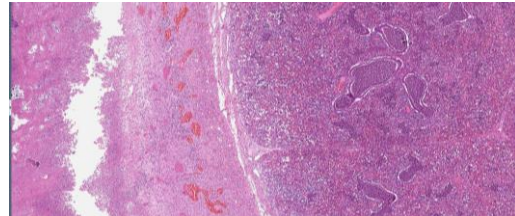
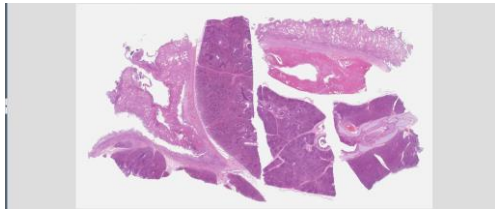
Morphologic diagnosis :

Abdominal cavity: Polyserositis, purulent, fibrinous, locally extensive, chronic-active, severe

Lung: Bronchopneumonia, interstitial, proliferative, purulent, locally extensive, chronic-active, severe

Turbinate: Rhinitis, lymphocytic, locally extensive, chronic, moderate, with basophilic intranuclear inclusion body

Heart: Pericarditis, purulent, diffuse, severe, acute



Lab. examination:

Bact: lung: *Pasteurella multocida* (+)

PCR: Lung: Porcine cytomegalovirus (PCMV) (+), PRRS (+), MHR (+)

Dx: Porcine Respiratory Disease Complex in Nursery Pigs

切片名稱：Case 4. P113-001-2-2

Case 4. CSVP 2024-3227 (P113-001, ADDC NPUST, L.Y. Chen, Y.W. Tsai, Y.H. Hsieh, Y.C. Li, and M.C. Cheng)

Red feather native chickens, 38-day-old, showed clinical signs of depression, sneezing and dyspnea. Cumulative mortality for the 4 days period was 1.6% (160/10,000). An autopsy revealed enlarged kidneys and caseous material adhering to the air sacs and lungs.

Morphologic diagnosis :

Trachea: Tracheitis, lymphoplasmacytic, proliferative, diffuse, moderate, chronic with epithelial hyperplasia

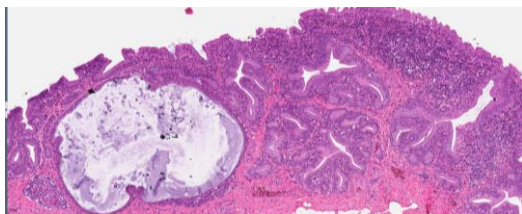
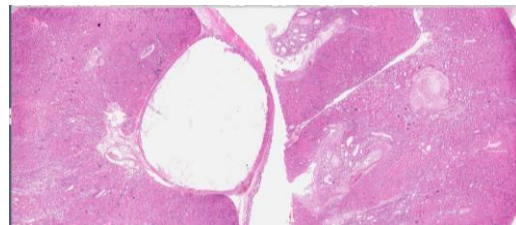
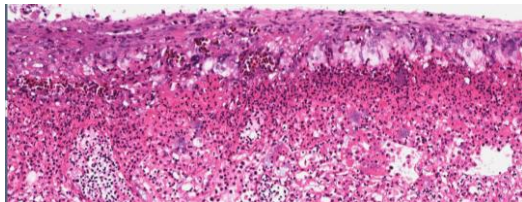
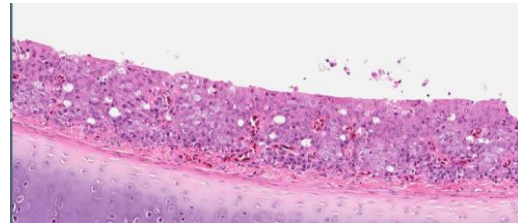
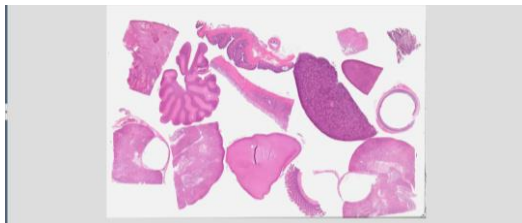
Lung: Pleuropneumonia, necrotizing, multifocal, severe, acute

Kidney: Nephritis, heterophilic, multifocal, severe, acute

Bursa: Lymphoid depletion, atrophy, diffuse, severe, chronic

Spleen: Lymphoid depletion, atrophy, diffuse, mild, chronic

Brain, proventriculus, BM, liver: NSL



Lab. examination:

Bact: Air sac: Maldi tof identified as *Ornithobacterium rhinotracheale* (ORT); Lung: *Escherichia coli* (E. coli) (+)

PCR: Lung: IBD, IB, MG (+)

IHC Stain-IBV (+) in kidneys

Dx: IB, IBD, CCRD complex infection

切片名稱：Case 5. 112035

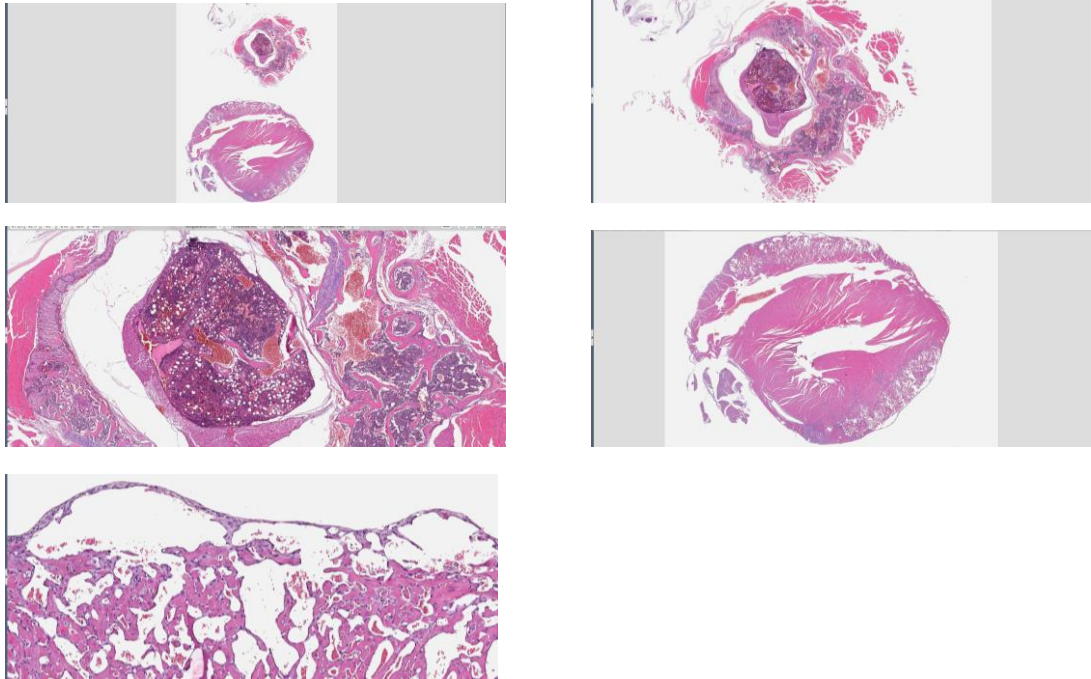
Case 5. CSVP 2024-3228 (112035, NTUCM LAC, Y.T. Tsai, I.S. Yu, and W.P. Chen)
Mouse, *Vhlh* knockout, 2.5-month-old, male. The mouse presented paraparesis.

Morphologic diagnosis :

Paraspinal nodule: extramedullary hematopoiesis, multifocal, moderate, chronic with axonal degeneration

Heart: Hemangioma, multifocal, severe, chronic

Spleen: extramedullary hematopoiesis, diffuse, moderate, chronic



Lab. examination:

Dx: Knockout Mouse Model of Von Hippel-Lindau Disease

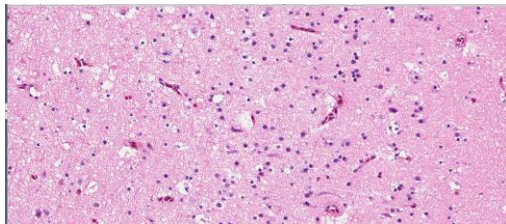
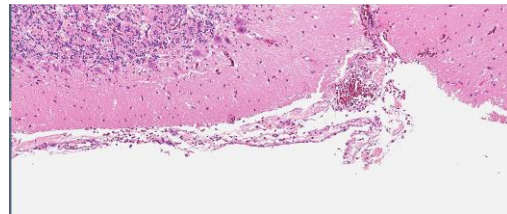
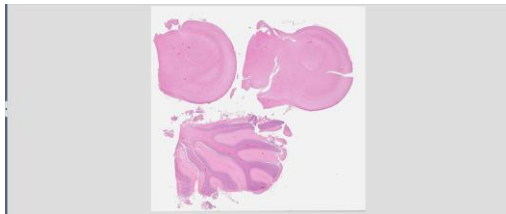
切片名稱：Case 6. 2024-012-1

Case 6. CSVP 2024-3229 (2024-012-1, VRI, Y.C. Tu, S.C. Hu, Y.P. Liu, and Y.W. Chen)

Black-faced spoonbill (*Platalea minor*) 篮鷺, adult, male, was rescued due to botulism at local hospital, and then the bird was transfer to TBRI's Wildlife First Aid Station, but cannot survived after retention. The bird showed clinical signs of anorexia and depression. At necropsy, hydropericardium and renomegaly were found.

Morphologic diagnosis :

Brain: Encephalitis, necrotizing, multifocal, acute, mild, with neuronal degeneration, severe



Lab. examination:

PCR: Avian influenza virus, H5N1 subtype, HA: PLREKRRKR/GLF (+)

ISH Stain : AI (+) in the brain, kidney, spleen, heart

Dx: Avian influenza virus infection with H5N1 subtype in a Black-faced spoonbill