

418 CSVP Contributor's Diagnosis

Date: Sep 11, 2026

Time: 12 : 00~16 : 00

Place: NCHU

專題演講(12:00~13:00)：美國獸醫病理專科之路：比較病理與實驗動物病理職涯分享 (美國華盛頓大學醫學院比較醫學系 郭軒代理助理教授)

切片名稱：Case 1. 24N93A

Case 1. CSVP 2026-3320 (24N93, UW DCM, S. H. Kuo and J. M. Snyder)

Rat, Sprague Dawley *Dmd^{mdx}*, 8-month-old, male, presented with a progressively enlarging right facial subcutaneous mass. On physical examination, the mass was firm, round, and circumferentially involved the right mandible and maxilla, extending from the ramus of the jaw to the zygomatic arch and diastema, resulting in malocclusion. Over the preceding year, two other *Dmd^{mdx}* rats from the same colony had developed similar facial masses.

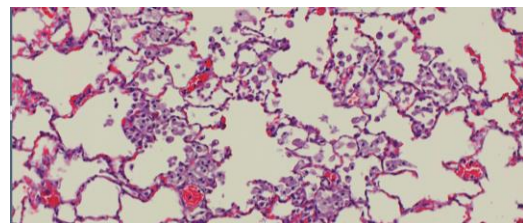
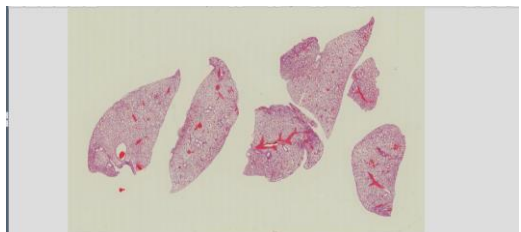
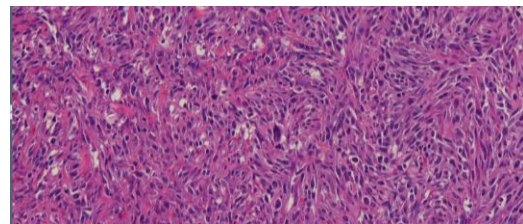
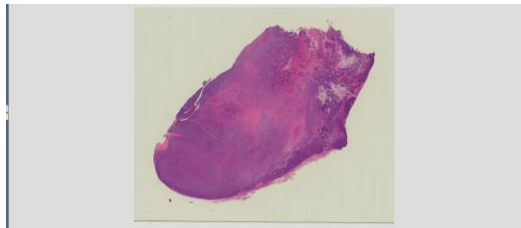
Morphological diagnosis:

Mass: the right facial mass reveals a regionally infiltrative, incompletely encapsulated neoplasm. Similar neoplasm to that described above with multinucleated giant cells and multifocal necrosis. There is moderate anisocytosis and anisokaryosis. Cells have abundant cytoplasm and poorly delineated cytoplasmic borders. Mitoses are frequent and occasionally atypical, and there are 74 mitotic figures per ten active high-power fields (400x).

Lung: Pulmonary metastasis in alveolar capillaries and interstitium: polygonal to round in morphology with karyomegaly, anisocytosis, anisokaryosis.

Lipogenic alveolar macrophage accumulation, multifocal, mild, chronic

Heart: There are cardiac muscle changes consistent with the DMD phenotype (myofiber degeneration, mild inflammation, fibrosis).



Lab. examination :

IHC: MyoD1 (+++), Myogenin (+) in mass and lungs;

PTAH stain (+)

Dx: Rhabdomyosarcoma with nodal and pulmonary metastases in *Dmd^{mdx}* rats

切片名稱：Case 2. SGS2608002

Case 2. CSVP 2026-3321 (SGS2608-002, Swine Guard Sustain, N.K. Yu, H.W. Chang, and Y.F. Tseng)

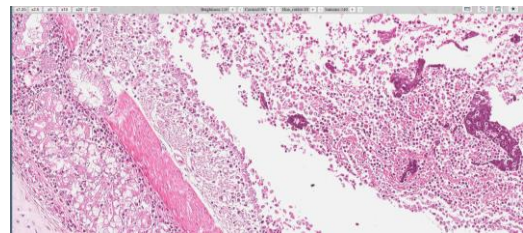
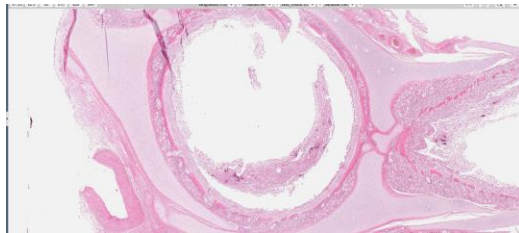
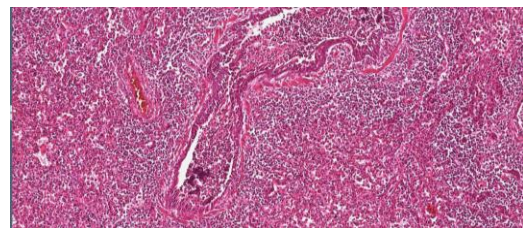
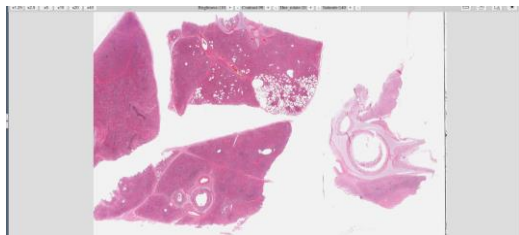
Nursery pigs, 12-week-old, showed clinical signs of dyspnea, coughing, and fever. The morbidity was approximately 85.7% (300/350), with a cumulative mortality of 10 pigs over a 2-week period. The condition showed no significant response to antibiotic treatment.

Morphological diagnosis:

Lung: Bronchointerstitial pneumonia with an exudative airway component, diffuse, severe, chronic, with BAL hyperplasia

Trachea: Bronchial and bronchiolar inflammation with luminal cellular exudate.

Selected fields show epithelial disorganization and detachment.



Lab. examination :

qualitative real-time PCR: SIV (+); ct: 35.61 in lungs tissue

NA PRRSV: 4/6 positive. EU PRRSV: 0/6 positive

PCV2: NA

Dx: Swine Influenza Virus Infection in Nursery Pigs

切片名稱：Case 3. NTU251940B

Case 3. CSVP 2026-3322 (NTU2025-1940, GIMCP, Y.Y. Lo, C.F. Kao, Y.C. Chang, H.W. Chang, and W.H. Huang)

Boa constrictor 巨蟒，female, 3-year-old. Since May, the patient developed abnormal dysecdysis 脫皮不全 on the dorsocervical region, with crust formation, scale loss, and serous exudation. A fungal infection was suspected and treated with antifungal agents; testing for *Aspergillus flavus* was negative. By November 8, excessive oral mucus, gingival bleeding, multiple tooth loss, and stomatitis were noted. On November 16, imaging revealed extensive pneumonia, and the patient died later in the evening.

Morphological diagnosis:

Eosinophilic intracytoplasmic inclusion bodies, numerous, lymphocytes, hepatocytes, renal tubular epithelial cells, pancreatic acinar cells, neurons, gastric mucosal epithelial cells, and enterocytes

Pneumonia, bronchointerstitial, granulomatous and lymphoplasmacytic, chronic-active, diffuse, severe, with edema and hemorrhage, lung

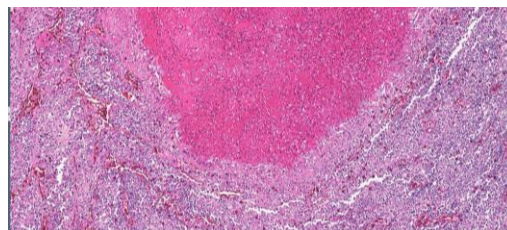
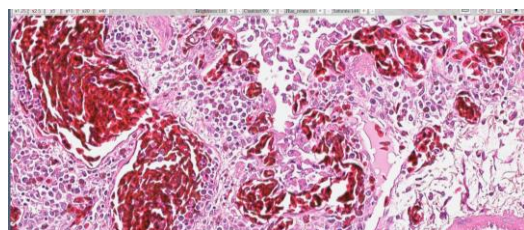
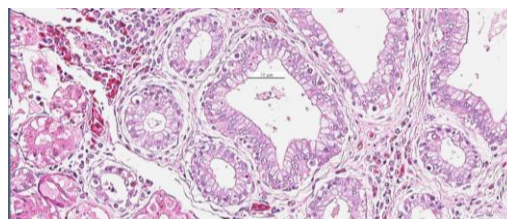
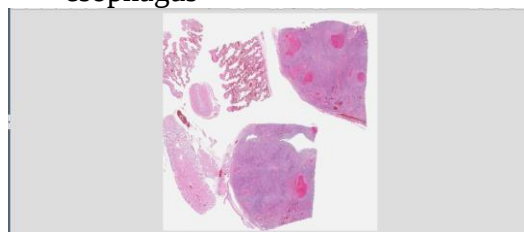
Necrogranuloma, chronic-active, multifocal to coalescing, severe, with lymphoid depletion, plasma cell hyperplasia and histiocytosis, spleen

Nephritis, interstitial, lymphoplasmacytic, subacute, multifocal, severe, with mild tubular necrosis and edema, kidney

Pancreatitis, lymphoplasmacytic, subacute, multifocal, mild, pancreas

Stomatitis, lymphoplasmacytic, subacute, multifocal, moderate, with mild hemorrhage and edema, oral cavity

Esophagitis, lymphoplasmacytic and heterophilic, subacute, multifocal, mild, esophagus



Lab. examination :

GMS: skin (-)

Dx: Inclusion body disease (IBD) in a Boa constrictor

切片名稱：Case 4. CX26003B

Case 4. CSVP 2026-3323 (CX26003, ADDC NCYU, Y.Y. Lai, J.H. Lin, H.C. Kuo, and D.Y. Luo)

Broilers, 25-day-old, showed signs of leg weakness and were unable to stand. The prevalence was 4%, and the mortality rate was 2%.

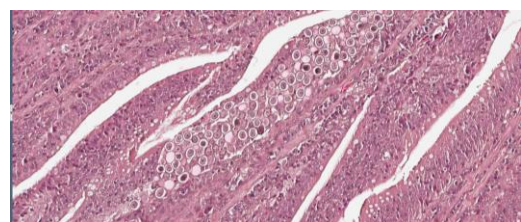
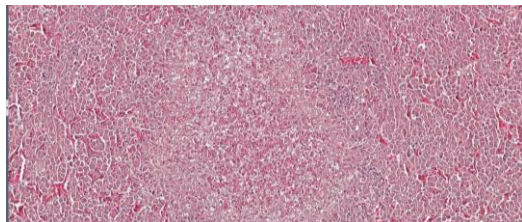
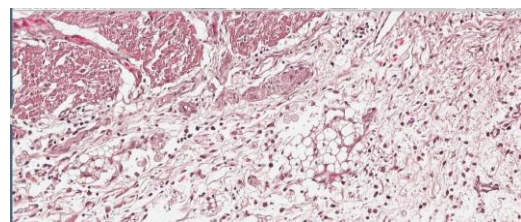
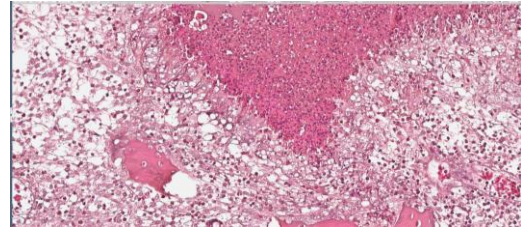
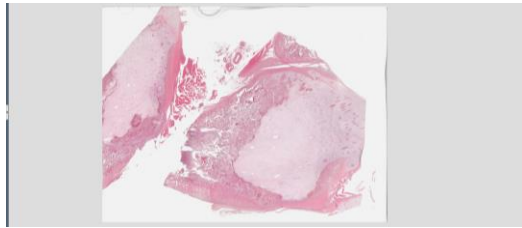
Morphological diagnosis:

Epicarditis, lymphocytic, heterophilic, multifocal, subacute, moderate

Hepatitis, necrotizing, heterophilic, panlobular, acute, severe

Duodenitis, protozoal, lymphocytic, segmental, chronic, moderate

Osteomyelitis, necrotizing, heterophilic, multifocal, acute, severe



Lab. examination :

Bacterial isolations: *Enterococcus cecorum* (+); *Salmonella* (-) in liver

Polymerase chain reaction (PCR) :

Mycoplasma gallinarum, *Mycoplasma synoviae*, Avian adenovirus infection (-)

Dx: *Enterococcus cecorum* infection and Colibacillosis in Broilers

切片名稱：Case 5. A115020

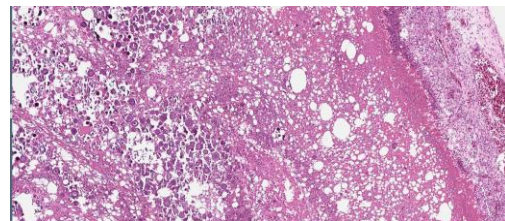
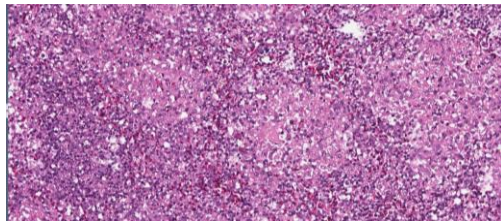
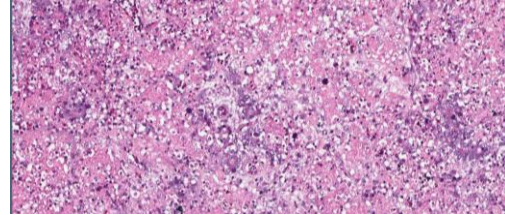
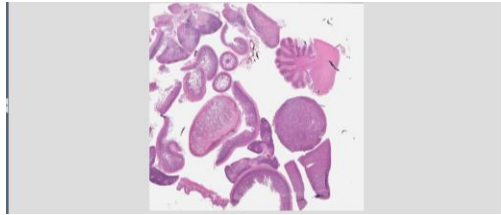
Case 5. CSVP 2026-3324 (A115-020, ADDC NPUST, Z.J. Qiu, Y.H. Hsieh, Y.W. Tsai, M.C. Cheng, and Y.C. Li)

Broilers, 11-day-old, from a flock of 15,500 birds. Increased mortality and weakness with suspected neurologic signs began at 8 days of age.

Morphological diagnosis:

Pancreas, spleen: Necrosis, multifocal to extensive, severe, acute, with basophilic IBs
yolk sac: Yolk sacculitis, diffuse, severe, acute

Intestine: NSL



Lab. examination :

Conventional Polymerase Chain Reaction (cPCR):

Liver, Spleen:

Positive: Aviadenovirus (IBH), Avian nephritis virus (ANV), Chicken astrovirus (CAstV)

Negative: Paramyxoviruses, Ornithobacterium rhinotracheale (ORT),

Bacterial Isolation:

Heart: Escherichia coli (+)

Dx. : Inclusion Body Hepatitis infection in Broilers

切片名稱：Case 6. CO2605016

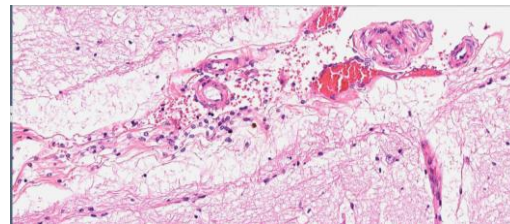
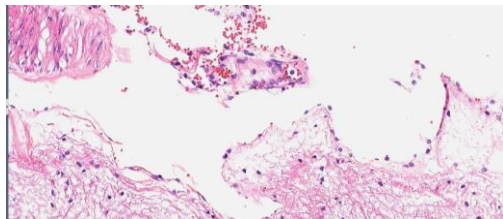
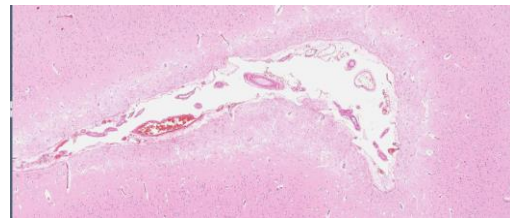
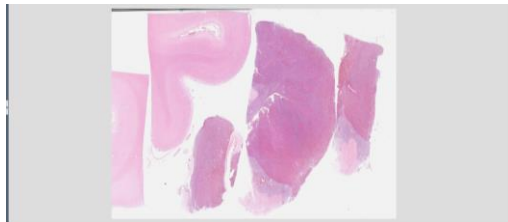
Case 6. CSVP 2026-3325 (CO26-05016, GIVP & ADDC NCHU, S. Tseng, H.Y. Chiou, and Y.L. Lin)

Mare, over 12-year-old, fell suddenly onto her right side while walking on a horse walker. The horse died approximately 20 minutes later, after being forced to stand up and walk back to its stall. The mare had participated in a show-jumping competition 場地障礙賽 in southern Taiwan four days earlier. No abnormalities were noticed during the intervening four days.

Morphological diagnosis:

Cerebrum and cerebellum: Meningoencephalitis, nonsuppurative, mild, acute, multifocal, with leptomeningeal edema, hemorrhage, lymphocytic perivascular cuffing, and satellitosis

Pituitary: Congestion, diffuse, severe, with acute, mild, multifocal hemorrhage (neurohypophysis)



Lab. examination :

Immunohistochemistry:

Antibody: GTX125867, JEV intracytoplasmic neurons (positive)

JEV NS5 gene (+) using Nested RT-PCR (Amplicon: 276 bp) in the cerebrum and cerebellum. >97% sequence identity to JEV reference strains.

Dx: Japanese Encephalitis Virus Infection in a Mare