

## **Supplementary Information**

### **Multifocal Cutaneous B-Cell Lymphoma in a Dog: Cytologic, Histopathologic, Immunophenotypic, and Molecular Findings**

Yunho Jeong<sup>1,2</sup>, Min-Ji Lee<sup>1</sup>, Sooyoung Choi<sup>3</sup>, Dae-Yong Kim<sup>4</sup>, Jin-Young Chung<sup>1</sup>, Jin-Ok Ahn<sup>1,\*</sup>, Eun Wha Choi<sup>5,\*</sup>

<sup>1</sup>Department of Veterinary Internal Medicine, College of Veterinary Medicine, Kangwon National University, 1 Kangwondaehak-gil, Chuncheon, Gangwon-do, 24341, Republic of Korea

<sup>2</sup>Haemaru Companion Animal Clinical Research Institute, 8-4, Hwangsaeul-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13590, Republic of Korea

<sup>3</sup>Department of Veterinary Medical Imaging, College of Veterinary Medicine & Institute of Veterinary Science, Kangwon National University, 1 Kangwondaehak-gil, Chuncheon, Gangwon-do, 24341, Republic of Korea

<sup>4</sup>Department of Veterinary Pathology and Research Institute of Science, College of Veterinary Medicine, Seoul National University, 599 Gwanak-ro, Gwanak-gu, Seoul, 08826, Republic of Korea.

<sup>5</sup>Department of Veterinary Clinical Pathology, College of Veterinary Medicine & Institute of Veterinary Science, Kangwon National University, 1 Kangwondaehak-gil, Chuncheon, Gangwon-do, 24341, Republic of Korea

#### **\*Corresponding author:**

Jin-Ok Ahn, DVM, PhD, Associate professor

Department of Veterinary Internal Medicine, College of Veterinary Medicine, Kangwon National University, 1 Kangwondaehak-gil, Chuncheon, Gangwon-do, 24341, Republic of Korea

Phone: 82-33-250-8790

Fax: 82-33-259-5625

E-mail: [joahn@kangwon.ac.kr](mailto:joahn@kangwon.ac.kr)

**\*Corresponding author:**

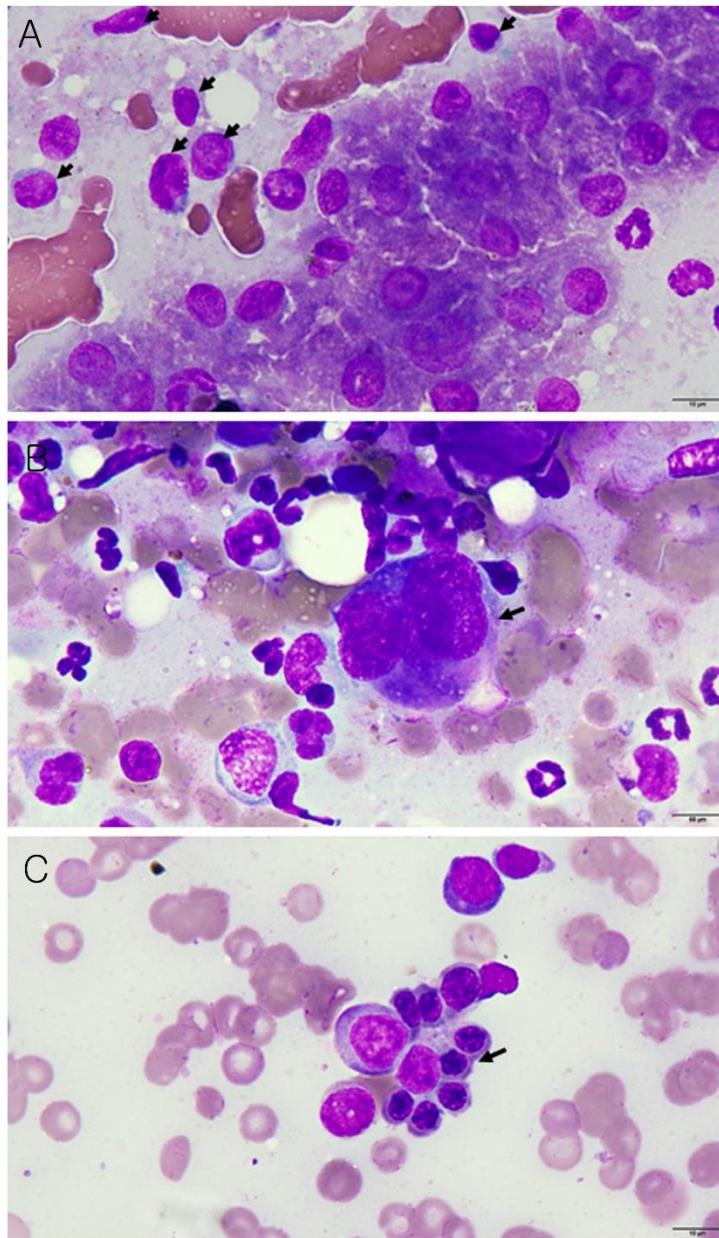
Eun Wha Choi, DVM, PhD, Associate professor

Department of Veterinary Clinical Pathology, College of Veterinary Medicine & Institute of Veterinary Science, Kangwon National University, 1 Kangwondaehak-gil, Chuncheon, Gangwon-do, 24341, Republic of Korea

Phone: 82-33-250-8794

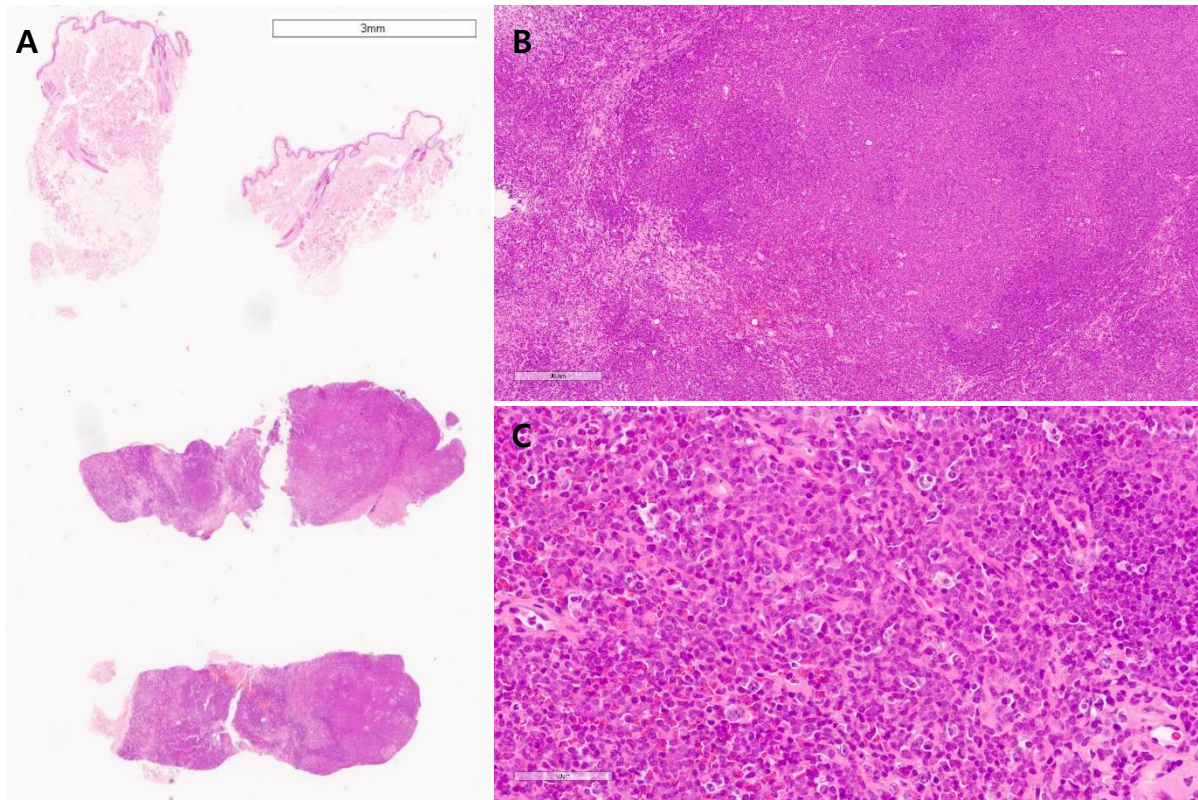
Fax: 82-33-259-5625

E-mail: [ewchoi@kangwon.ac.kr](mailto:ewchoi@kangwon.ac.kr)



**Supplementary Figure 1. Cytologic findings from liver and spleen fine-needle aspirates.**

- (A) Liver aspirate showing scattered small, mature lymphocytes (arrows) characterized by a high nuclear-to-cytoplasmic ratio and densely clumped chromatin, admixed with hepatocytes.
- (B) Splenic aspirate demonstrating a large megakaryocyte (arrow) with abundant cytoplasm and a multilobulated nucleus, consistent with extramedullary hematopoiesis.
- (C) Splenic aspirate showing nucleated red blood cells (arrow), with round nuclei and variably basophilic cytoplasm, also consistent with extramedullary hematopoiesis.



**Supplementary Figure 2. Photomicrographs of the cutaneous mass at different magnifications.** (A) Very low-power view showing a dermal/subcutaneous mass separated from the epidermis without evidence of epitheliotropism, supporting a non-epitheliotropic pattern (scale bar = 3 mm). (B) Low-power view showing densely cellular neoplastic round-cell proliferation involving the dermis and subcutis (scale bar = 300  $\mu$ m). (C) High-power view showing that the neoplastic population is composed predominantly of lymphoid cells with a high nuclear-to-cytoplasmic ratio and scant cytoplasm. Scattered plasma cells, neutrophils, and eosinophils are admixed within the lesion (scale bar = 60  $\mu$ m).