

What's Your Radiographic Diagnosis?

by
Marilyn Lowe*

History

A two year old spayed female Pointer was brought to the clinic for examination of an enlargement in the right tarsal region. The swelling was reported to have begun medially about three months previously.

The dog was alert, was very thin, and had a dry hair coat. The right tarsal region did not seem sensitive to palpation. Blood analysis results are in Table 1. Ra-

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diographs were taken. Figure 1 is a lateral view of the right tarsal area. Thoracic radiographs revealed no significant lesion. Since tissue taken by bone biopsy showed only bony hyperplasia, the dog was dismissed.

About two weeks later the dog was readmitted for the same complaint. She was holding the right leg flexed at the stifle so as to avoid walking on it; the right tarsal area was very swollen, hot, and fairly firm to the touch. The right popliteal and superficial inguinal lymph nodes were enlarged. The dog was treated with D.N.P. after *Ancylostoma* was found during a routine fecal examination.



Figure 1. Lateral view of right tarsal area.

The soft tissue swelling seemed to progress both proximally and distally from the original enlargement each day. An-

other radiograph (Fig. 2) was taken; blood was taken for analysis (Table 1).

	I	II
Hb	13.2 gm. %	13.4 gm. %
PCV	40%	38%
RBC	4.62 million/mm. ³	4.86 million/mm. ³
WBC	8400/mm. ³	9525/mm. ³
eosinophils	18%	3%
seg. neutrophils	61%	74%
band neutrophils	0%	0%
lymphocytes	13%	21%
monocytes	8%	2%
Platelets	adequate	adequate
RBC morphology	normal	normal
Total protein	7.9 gm. %	7.8 gm. %
Fibrinogen	500	700
BUN	10 mg. %	...
SGPT	38	...
Alkaline phosphatase	33 I.U.	...
LDH	...	140

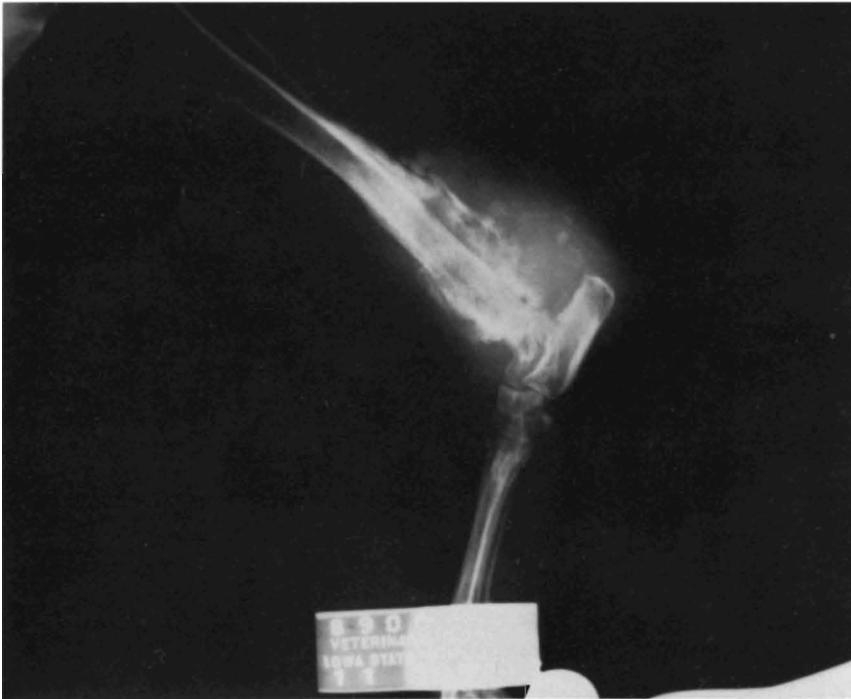


Figure 2. Lateral view of the right tarsal area.

Diagnosis

The radiographs show soft tissue swelling, new bone formation, and lysis of bone. Osteomyelitis of the tibia is also

present.

A second bone biopsy revealed an area composed of closely packed capillary blood spaces lined with endothelial cells, many of which contained mitotic figures. After

a diagnosis of hemangiosarcoma was made, the dog was euthanized.

Post-mortem results

The bone of the right tibiotarsal region was found to be necrotic; the area was infiltrated with massive, soft, reddish tis-

sue. A nodule one centimeter in diameter was present in the spleen. The right popliteal and superficial and deep inguinal lymph nodes were enlarged. Several small (1 mm.) nodules were found in the lungs.

The final diagnosis was hemangiosarcoma of the spleen with metastases to the lungs, lymph nodes, and hock.

STUDENT NEWS



Class of '73

Kathy Burds is engaged to Brian Oetjen

Class of '74

Daryl Funk will marry Carol Tielebein
Larry Reilly married Nancy Swanson
Nov. 4, 1972

Class of '75

Bob Buzzetti married Linda Lee Gordon
Dec. 22

SOPHOMORE STUDENT WINS SCHOLARSHIP

John Kurt, sophomore veterinary student from Cascade, Iowa, was chosen to receive a \$900 veterinary medicine scholarship by the Dubuque Kennel Club. This award, which is the fourth of its kind given by the club, bases its standards of selection on character, need, scholastic standing, interest in dogs, and proximity

to the Dubuque area. The scholarship is funded in part by the profits from the club's annual March dog show.

VETERINARY STUDENTS HEAD VEISHEA

The staff of the *ISU Veterinarian* would like to congratulate Jack Feldman and Fred Scarbrough, junior veterinary students, for being selected as university co-chairmen of the annual Iowa State Veishea celebration. They were selected by the Veishea Central Committee on the basis of interviews and a presentation of how they, as a team, would organize and present Veishea 1973. This is probably the first time that two veterinary students have been chosen for this post, and it is an honor certainly worth recognition.

SOPHOMORE FEATURED IN AREA NEWSPAPER

Charlotte Robson, sophomore veterinary student, was recently featured in the Des Moines Sunday Register Picture Section in conjunction with her activities as a horsewoman. Charlotte is a member of the U.S. Equestrian Team and has been actively involved in local and national