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**EXPERIMENTAL STUDIES ON LYMPHOGRAPHY IN DOGS
CLINICAL AND HEMATOLOGICAL FINDINGS
WITH LIPIODOL ULTRA-FLUIDE**

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The present study was undertaken to obtain clinical and hematological information about the influences of lymphography with Lipiodol Ultra-Fluide in dogs. For this purpose experiments were carried out using 24 healthy adult dogs. These dogs were divided into 4 groups; (1) intralymphatic injection of 0.4 ml/kg of Lipiodol Ultra-Fluide; (2) intralymphatic injection of 0.4 ml/kg of Ringer's solution; (3) intravenous injection of 0.4 ml/kg of Lipiodol Ultra-Fluide; and (4) intravenous injection of 1.2 ml/kg of Lipiodol Ultra-Fluide. The following results were obtained.

1) In the 1st group, delayed wound healing, coughing, and slight pyrexia were observed after the injection. In 2 dogs arborizing vascular patterns appeared on their chest roentgenograms. The patterns were no longer apparent on their films taken 24 hours later. The hematological findings were much the same as observed in the 2nd group.

2) In the 2nd group, abnormal clinical changes were not observed after the injection. An increase in neutrophils, a decrease in A/G ratio, and a rise in erythrocyte sedimentation rate were observed. No abnormal changes in hematocrit value, hemoglobin, total protein, alkaline phosphatase, GOT, GPT, glucose, BUN, plasma sodium, potassium, calcium, whole blood pH or gas content were observed.

3) In the 3rd group, coughing was observed after the injection. Fine granular densities due to the droplets of the contrast medium appeared on their chest roentgenograms throughout both lung fields. In 3 dogs reticular patterns were also observed. The patterns were no longer apparent on their films taken 24 hours later. There were no abnormal hematological changes.

4) In the 4th group, severe clinical signs, a lowering in body temperature, a fall in whole blood pH, and an increase in plasma glucose were observed after the injection. Two dogs died 8 hours later, and an obvious decrease in plasma calcium was also observed in a dog.