

イヌ温阻血急性肝障害モデルにおける
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学 位 論 文

十 束 英 志

附 図 1 4 枚

附 表 1 枚

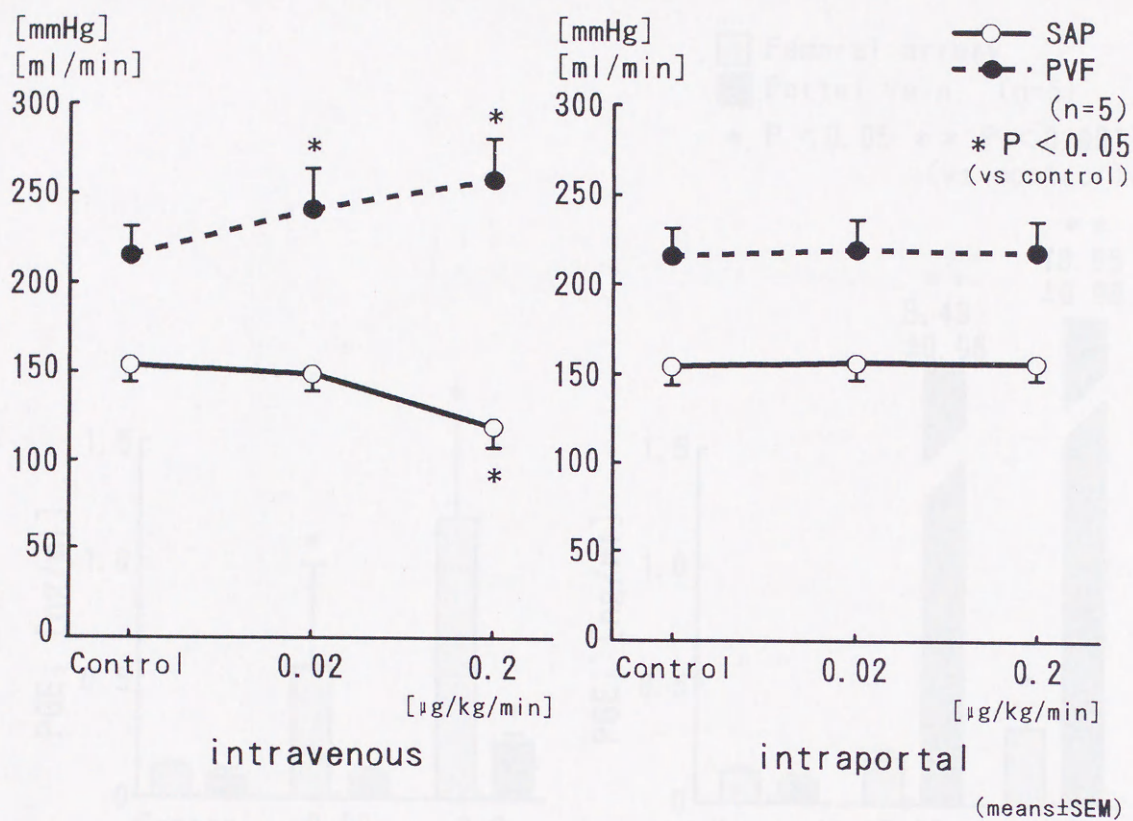


Fig.1 Changes in SAP and PVF when PGE_1 was administered via intravenous or intraportal route at a rate of 0.02 or 0.2 $\mu\text{g/kg/min}$.

SAP: systemic arterial pressure

PVF: portal venous flow

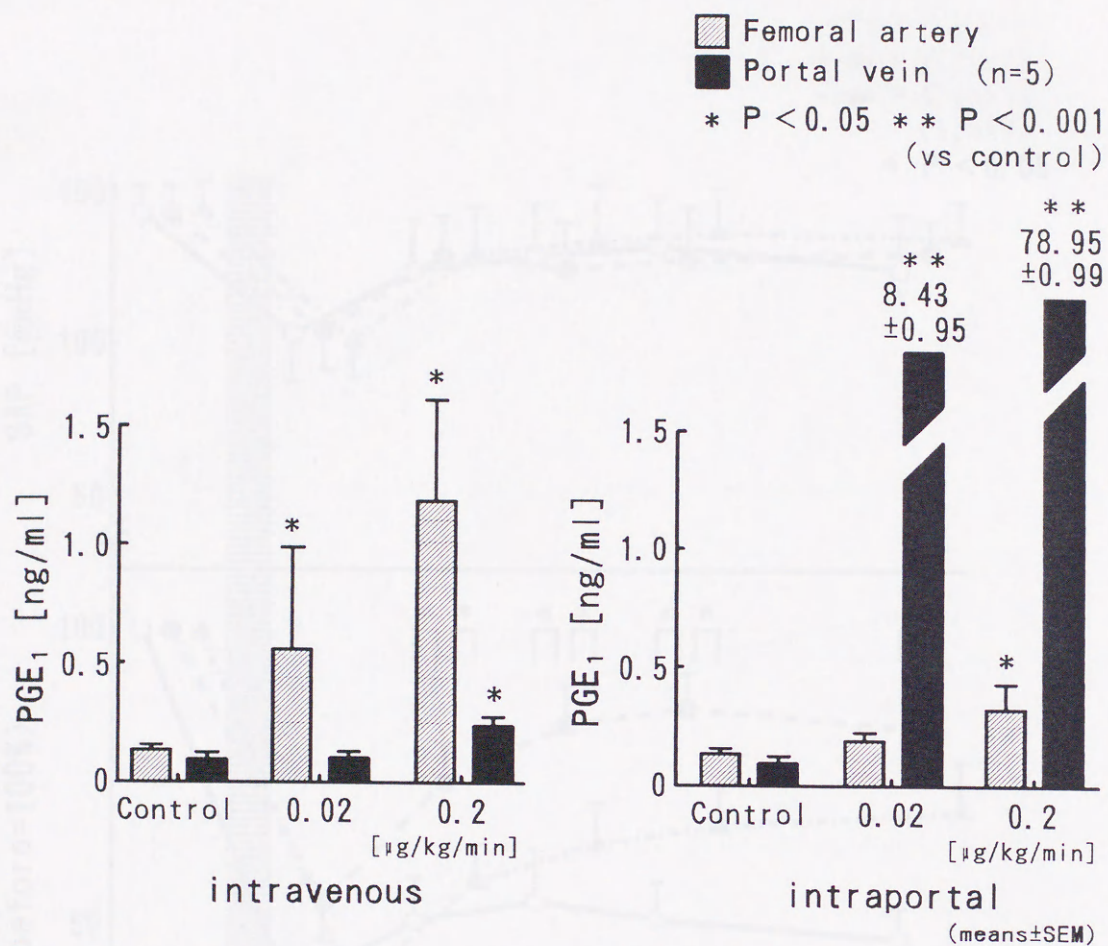


Fig.2 Changes in PGE_1 concentration in both the femoral artery and the portal vein when PGE_1 was administered via intravenous or intraportal route at a rate of 0.02 or 0.2 $\mu\text{g/kg/min}$.

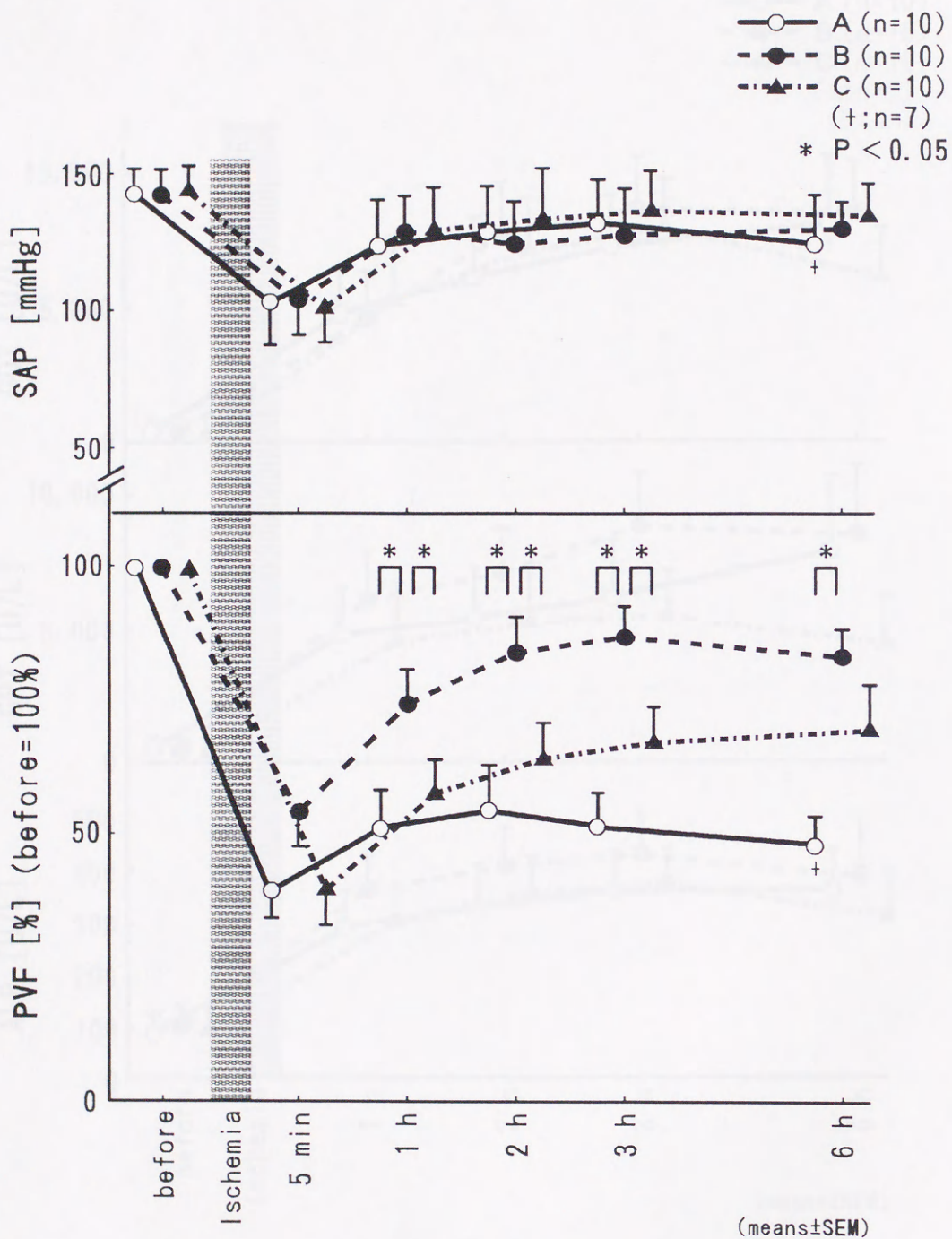


Fig.3 Changes in SAP (upper) and PVF (lower) in dogs with warm ischemic liver damage.

SAP: systemic arterial pressure, PVF: portal venous flow

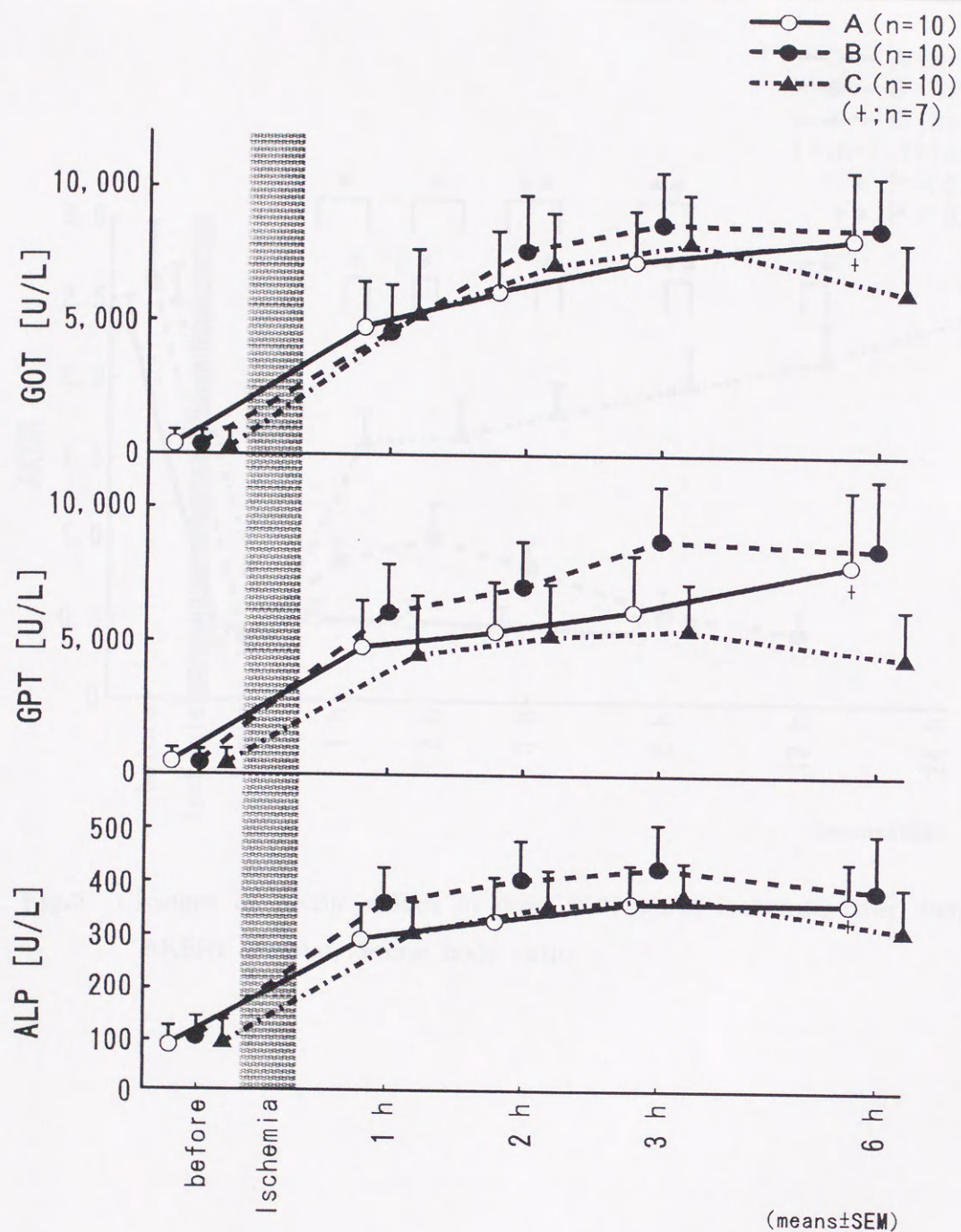


Fig.4 Changes in the values of GOT (upper), GPT (middle) and ALP (lower) in dogs with warm ischemic liver damage.

GOT: glutamic oxaloacetic transferase, GPT: glutamic pyruvic transferase, ALP: alkaline phosphatase

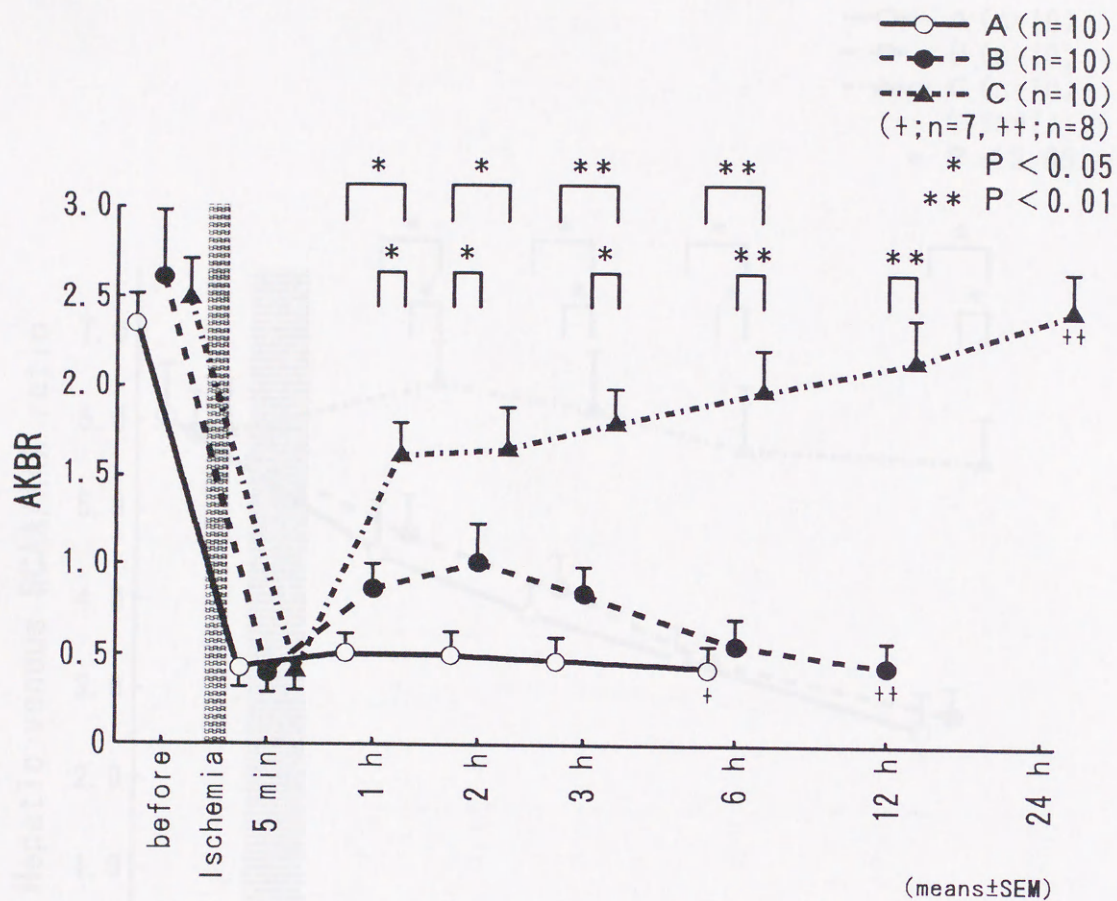


Fig.5 Changes in AKBR values in dogs with warm ischemic liver damage.
AKBR: arterial ketone body ratio

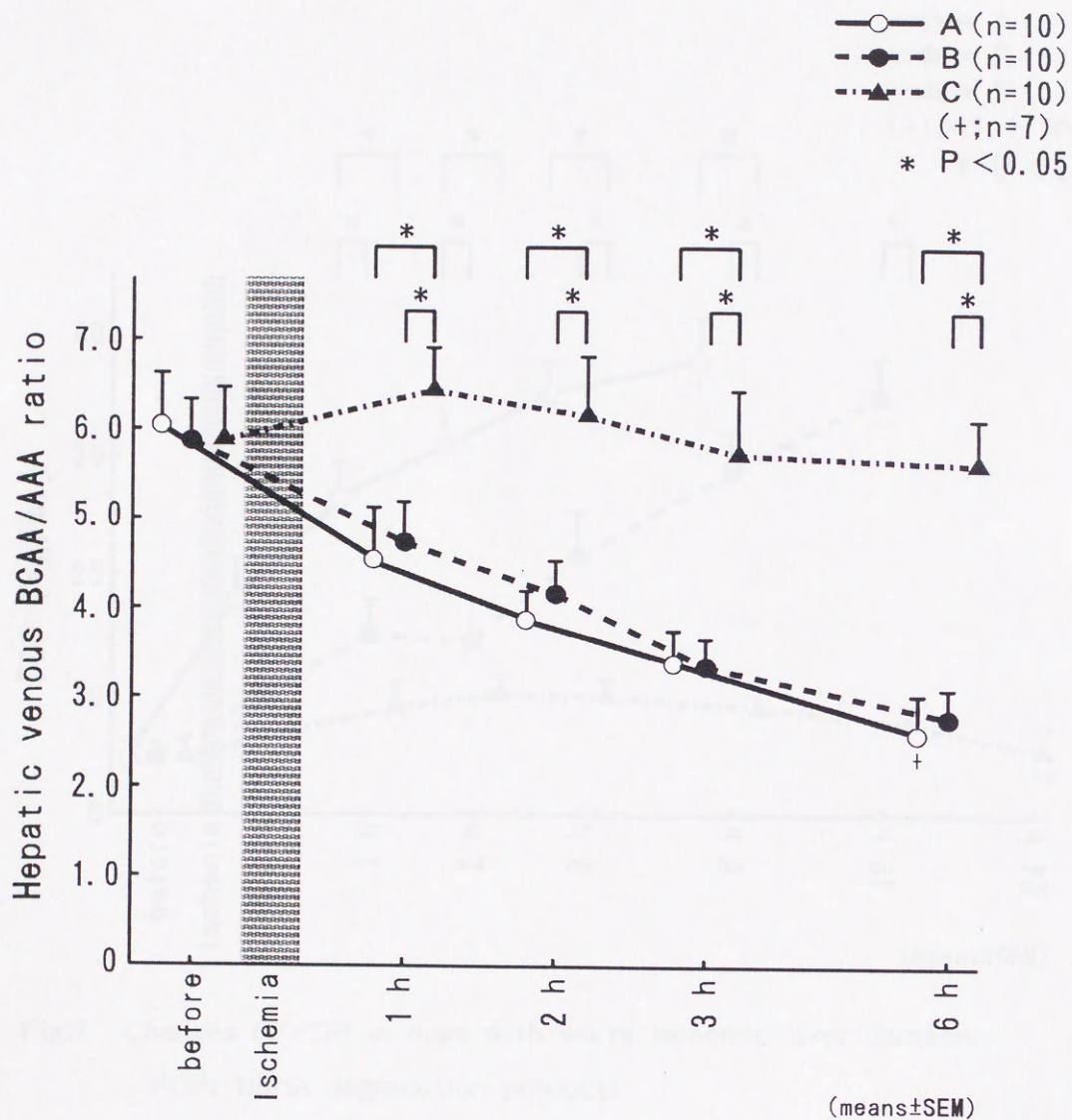


Fig.6 Changes in hepatic venous BCAA/AAA ratio in dogs with warm ischemic liver damage.

BCAA: branched chain amino acids, AAA: aromatic amino acids

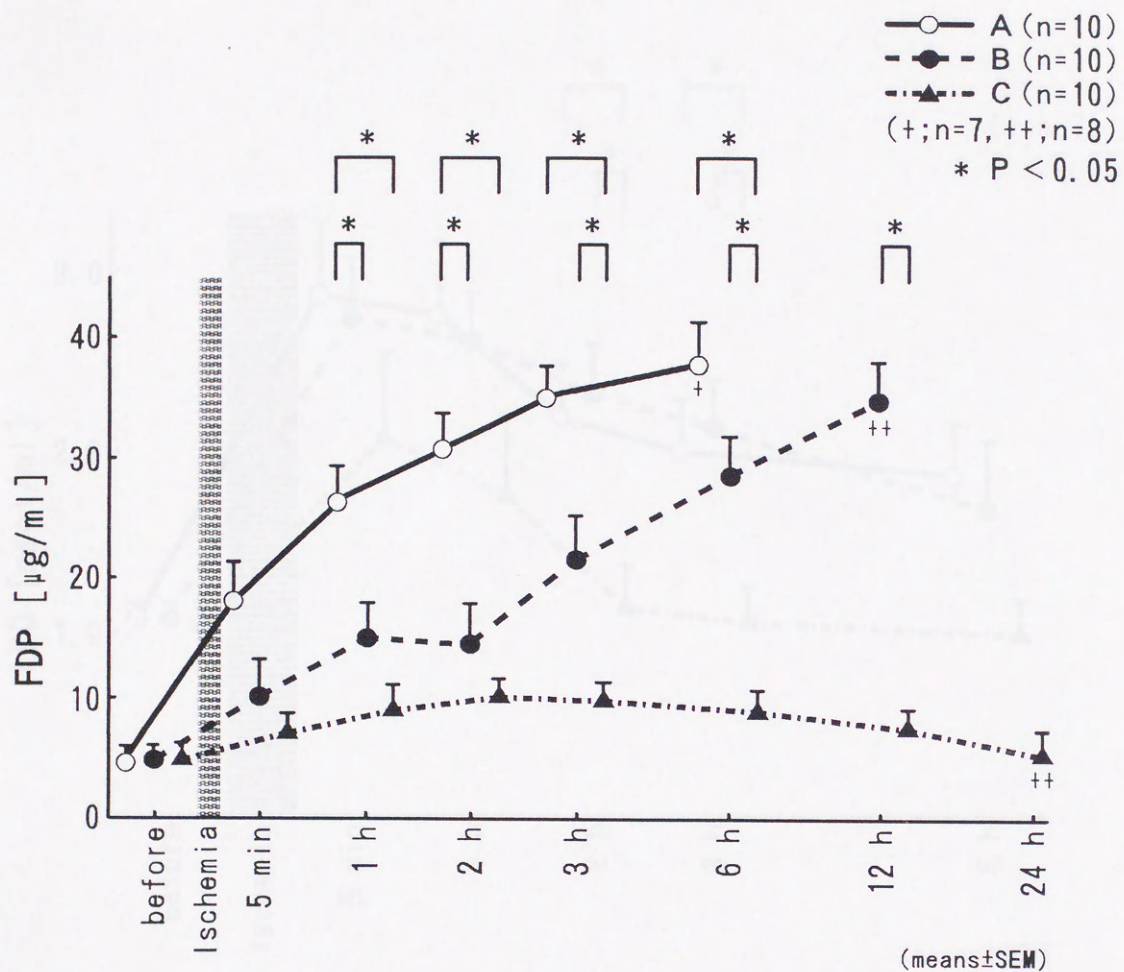


Fig.7 Changes in FDP in dogs with warm ischemic liver damage.

FDP: fibrin degradation products

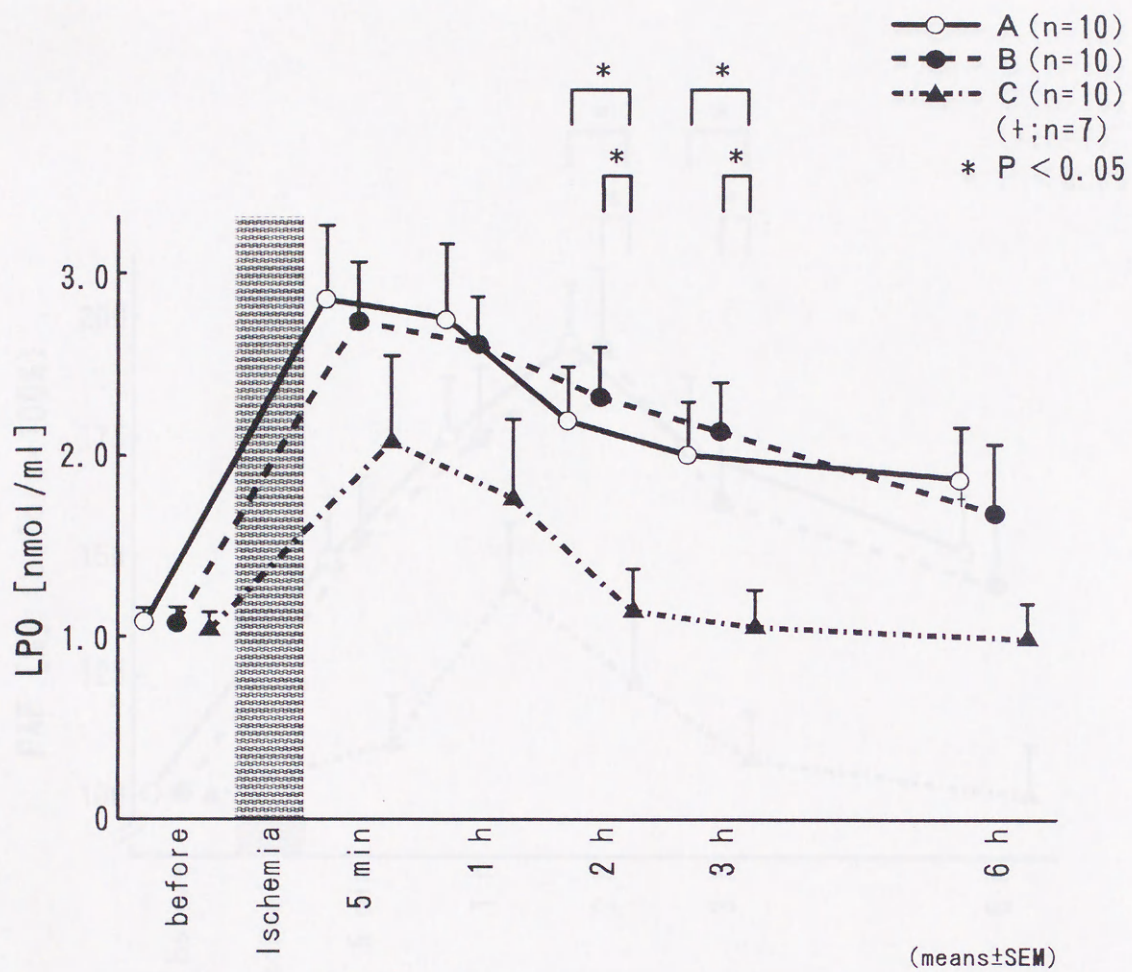


Fig.8 Changes in LPO concentration in dogs with warm ischemic liver damage.

LPO: lipid peroxide

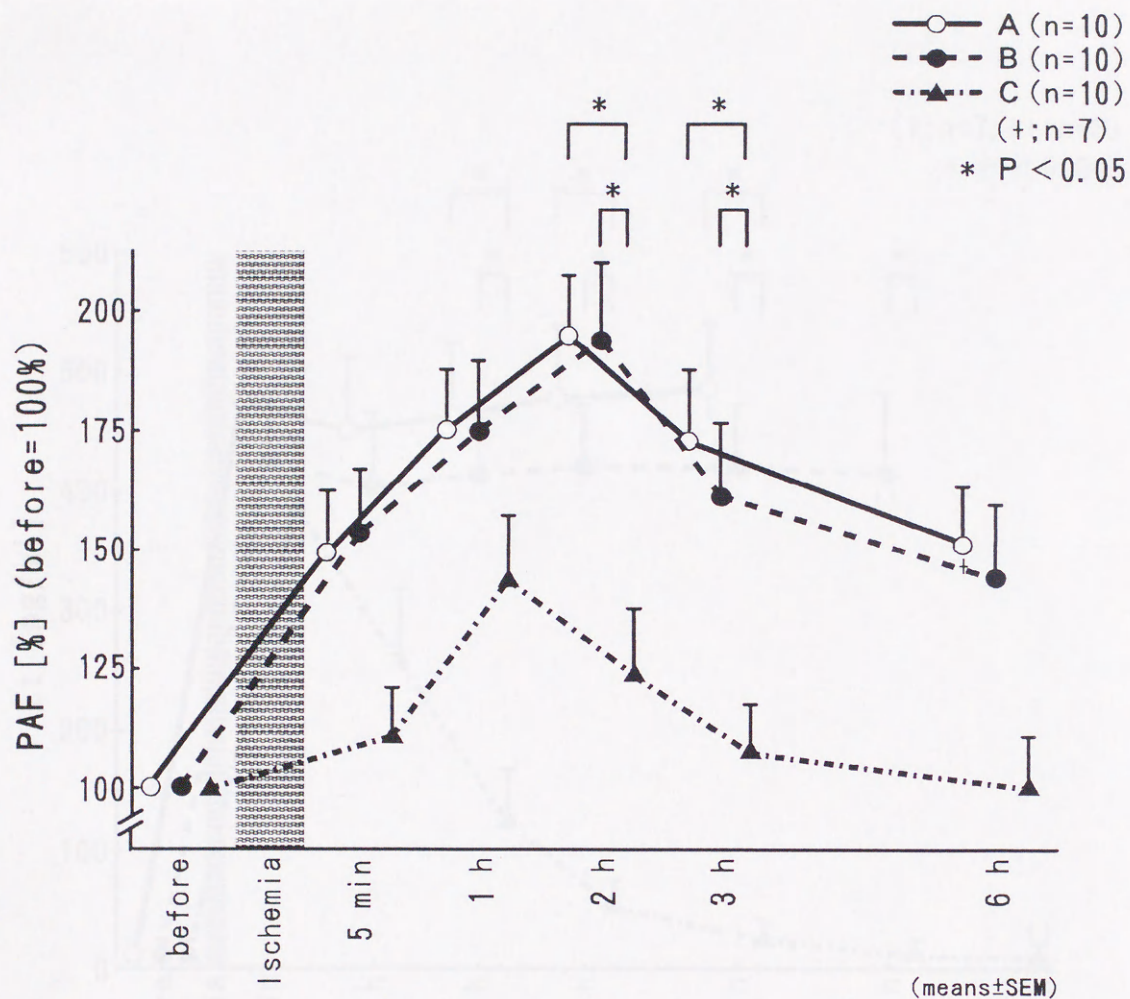


Fig.9 Changes in PAF concentration in dogs with warm ischemic liver damage.

PAF: platelet activating factor

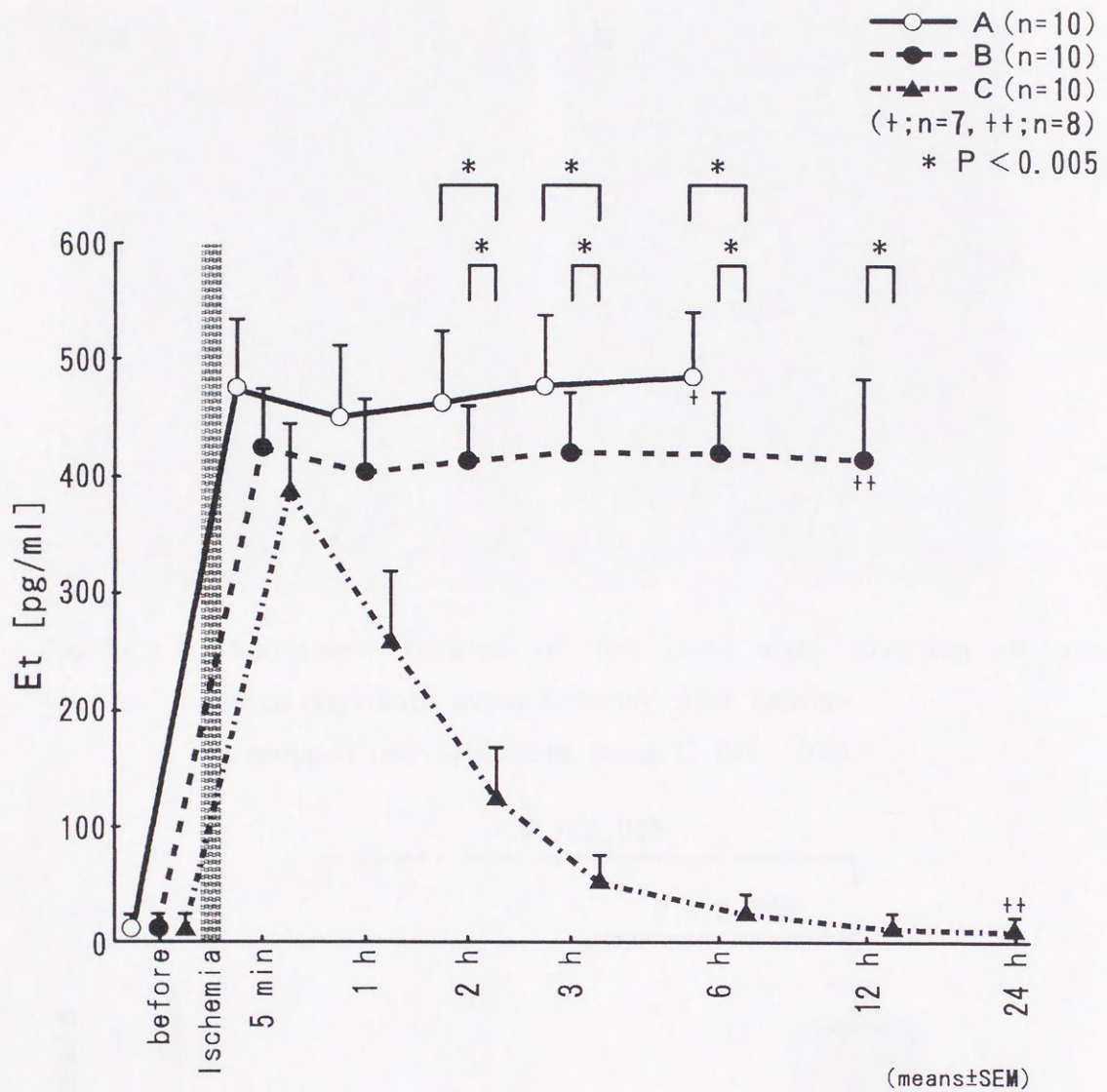


Fig.10 Changes in Et concentration in dogs with warm ischemic liver damage.

Et: endotoxin

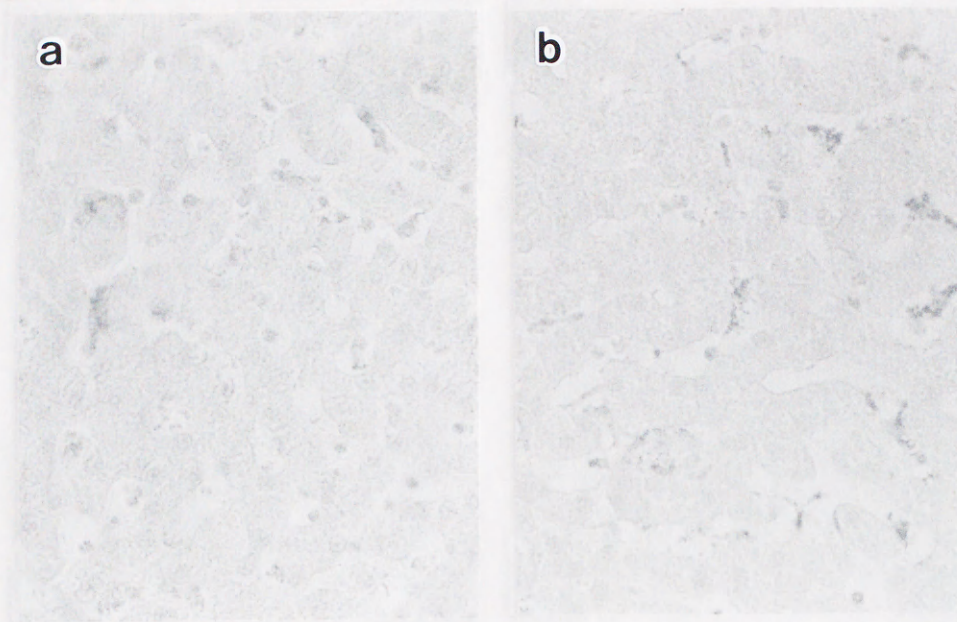


Fig.11a,b Microscopic findings of the liver after injection of India ink in dogs with warm ischemic liver damage.
a; group B (HE $\times 100$). b; group C (HE $\times 100$).

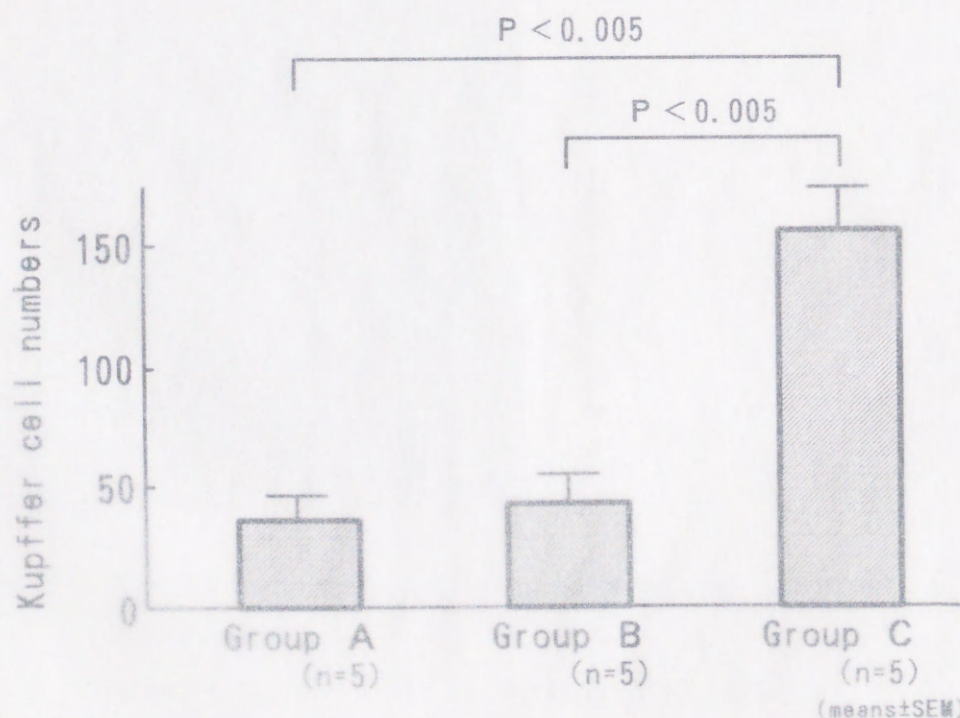


Fig.11c The number of Kupffer cell phagocytosing India ink in dogs with warm ischemic liver damage.

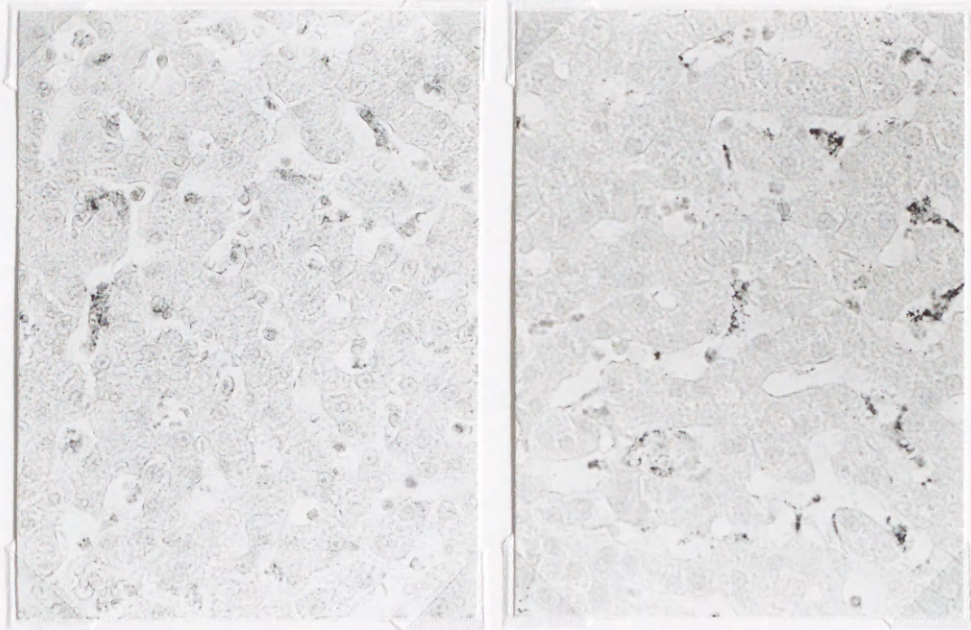


Fig.11a,b Microscopic findings of the liver after injection of India ink in dogs with warm ischemic liver damage.
a; group B (HE $\times 100$). b; group C (HE $\times 100$).

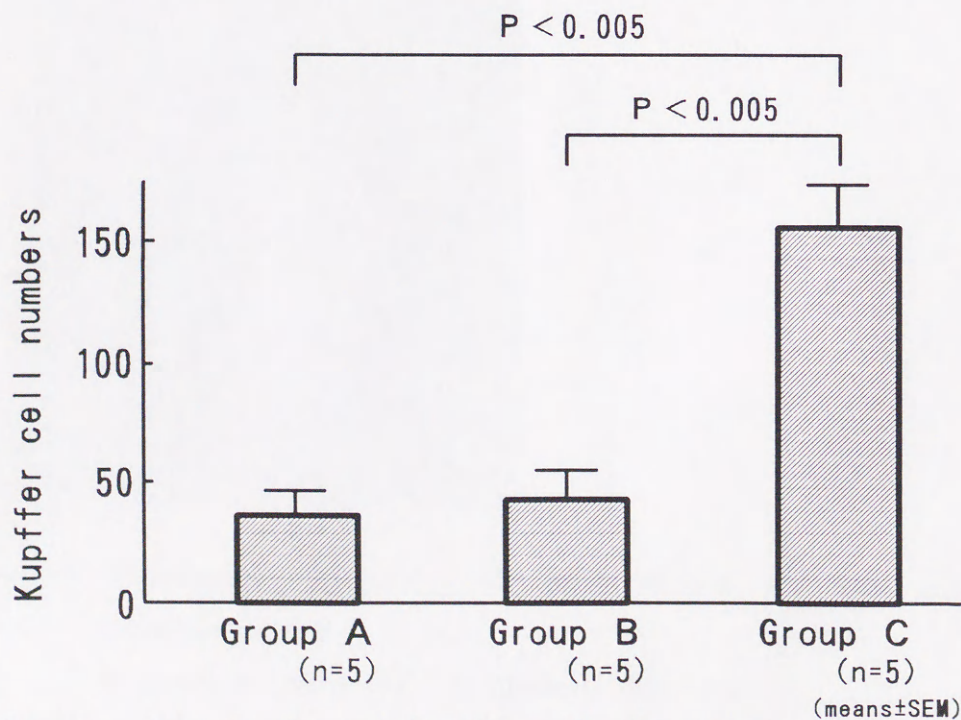


Fig.11c The number of Kupffer cell phagocytosing India ink in dogs with warm ischemic liver damage.

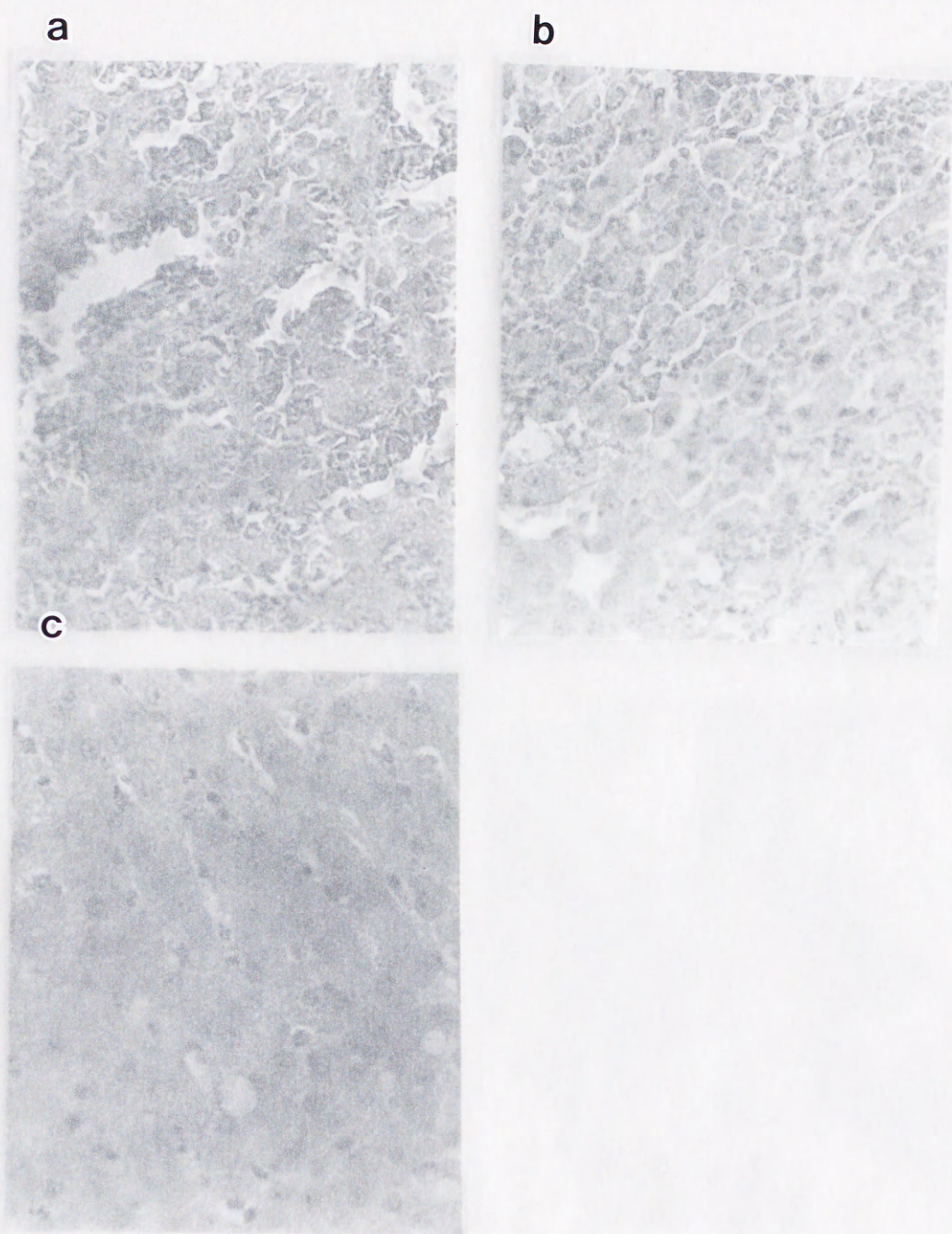


Fig.12 Microscopic findings of the liver at the 6th hour after warm ischemia in dogs.

a: group A (HE x160). b: group B (HE x160).

c: group C (HE x160)

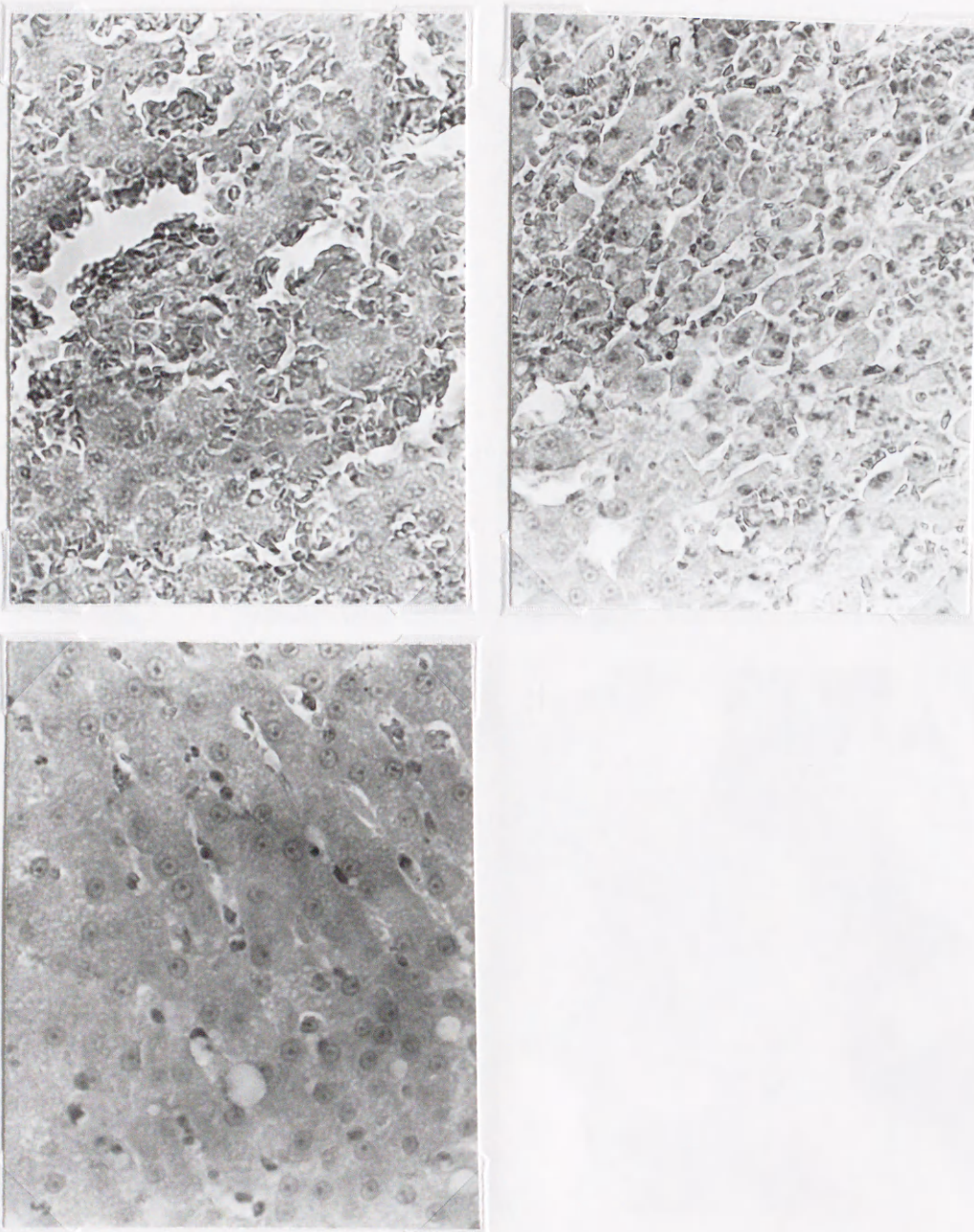


Fig.12 Microscopic findings of the liver at the 6th hour after warm ischemia in dogs.

a; group A (HE $\times 160$). b; group B (HE $\times 160$).

c; group C (HE $\times 160$)

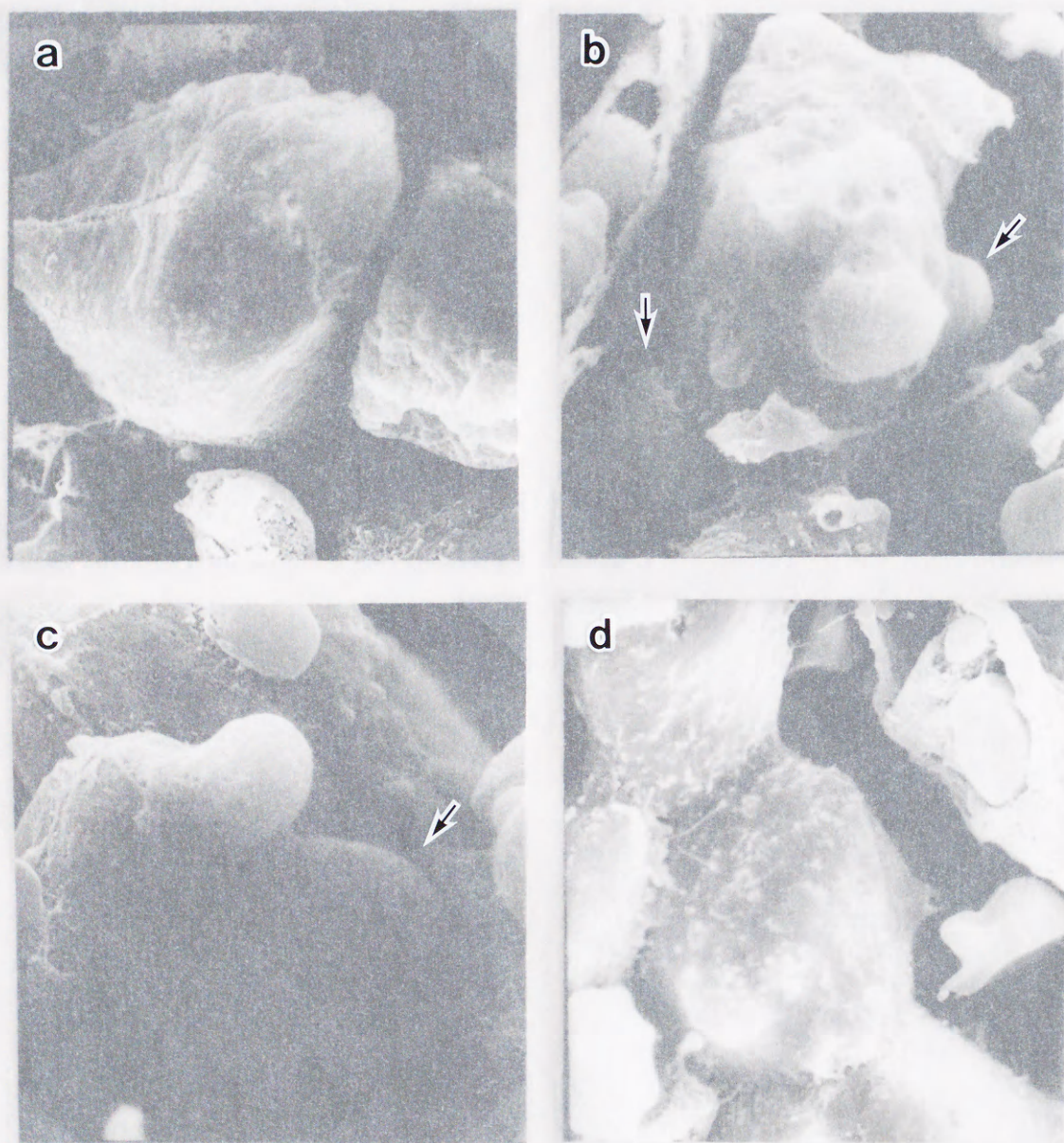


Fig.13 Scanning electron microscopic findings of the liver at the 3rd hour after warm ischemia in dogs.

a; control (x4,500). b; group A (x4,500). c; group B (x4,500). d; group C (x4,500). ↑ =bleb.



Fig.13 Scanning electron microscopic findings of the liver at the 3rd hour after warm ischemia in dogs.

a; control (x4,500). b; group A (x4,500). c; group B (x4,500). d; group C (x4,500). ↑ =bleb.

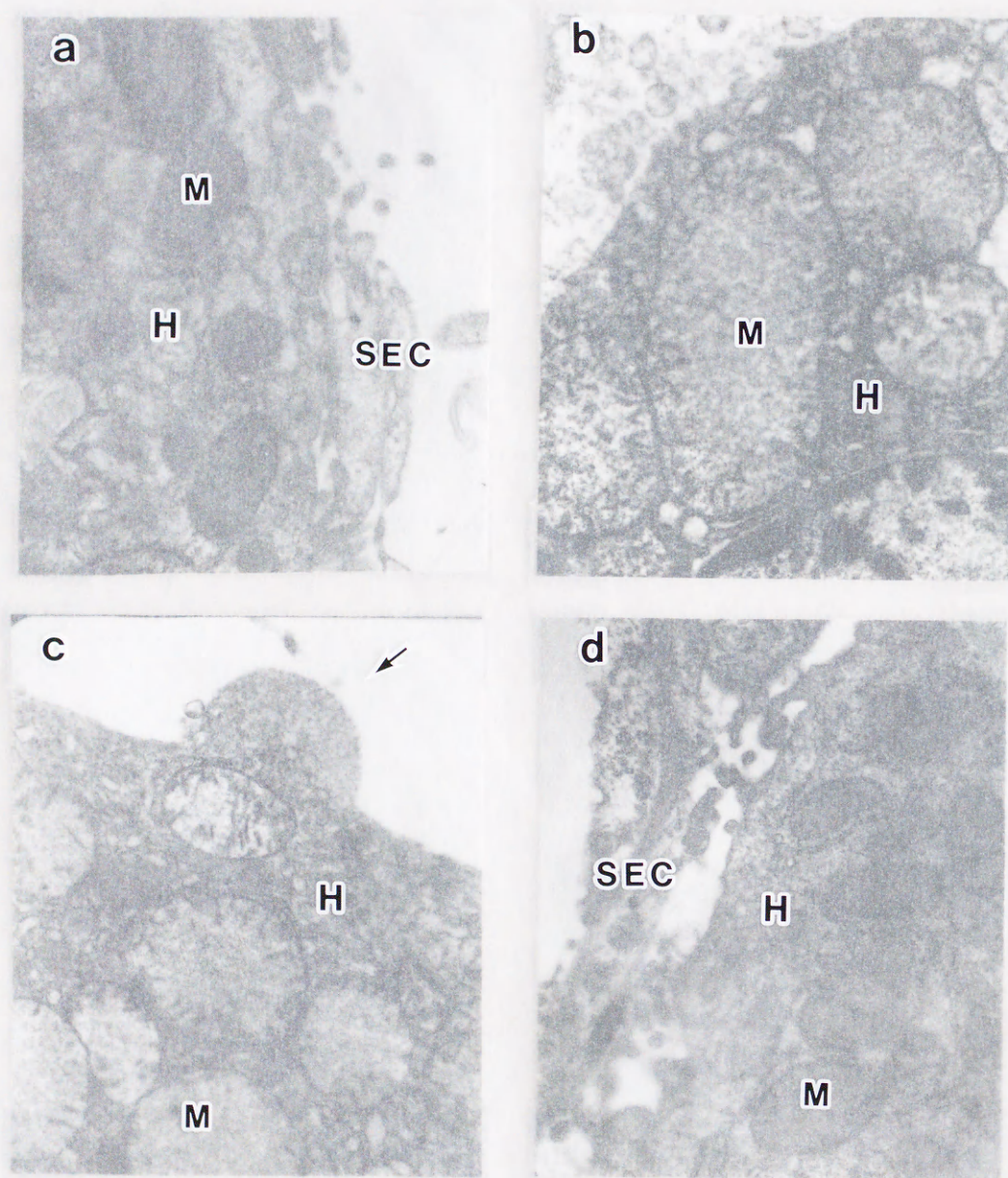


Fig.14 Transmission electron microscopic findings of the liver at the 6th hour after warm ischemia in dogs.

a; control (x14,000). b; group A (x14,000). c; group B (x14,000). d; group C (x14,000). H=hepatocyte, †=bleb, M=mitochondria, SEC=sinusoidal endothelial cell.

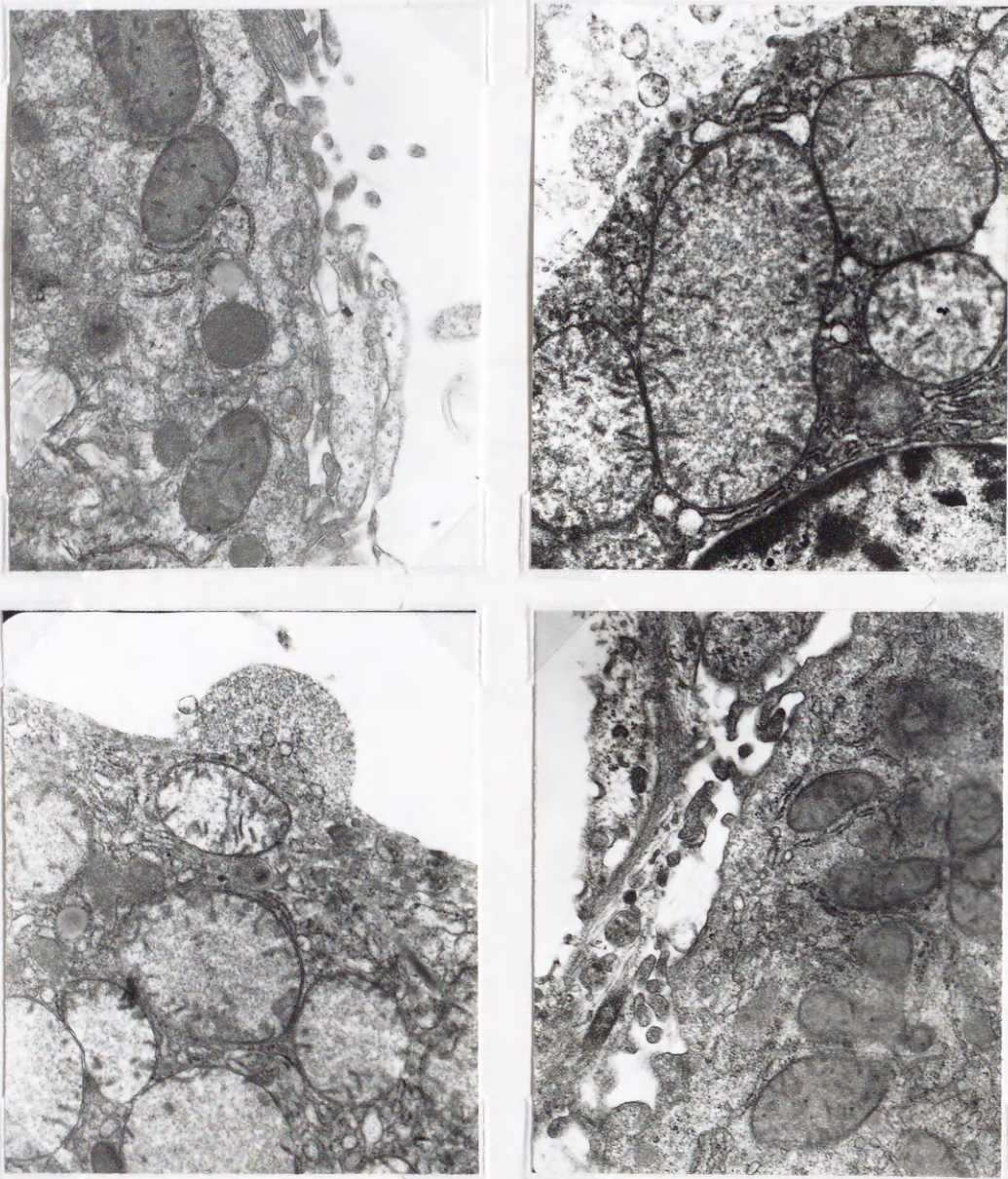


Fig.14 Transmission electron microscopic findings of the liver at the 6th hour after warm ischemia in dogs.

a; control ($\times 14,000$). b; group A ($\times 14,000$). c; group B ($\times 14,000$). d; group C ($\times 14,000$). H=hepatocyte, \uparrow =bleb, M=mitochondria, SEC=sinusoidal endothelial cell.

Table 1 Mean survival time of the dogs with warm ischemic liver damage.

	< 24h	24h ≤, < 72h	72h ≤	means ± SEM
group A	10	0	0	7.3 ± 0.7 h
group B	10	0	0	16.4 ± 0.8 h
group C	2	2	6	54.3 ± 8.6 h *

*P < 0.05 (vs group A, B)

Table 1. Mean survival time of the dogs with various lesions.

Group	< 24h	24h-72h	> 72h	mean \pm SEM
Group A	10	0	0	5.3 \pm 0.7 h
Group B	10	0	0	10.4 \pm 0.8 h
Group C	5	5	5	24.3 \pm 8.8 h

* $p < 0.05$ (vs Group A, B).