

‘There are no safe anaesthetic agents;
there are no safe anaesthetic procedures;
there are only safe anaesthetists’.

Robert H. Smith

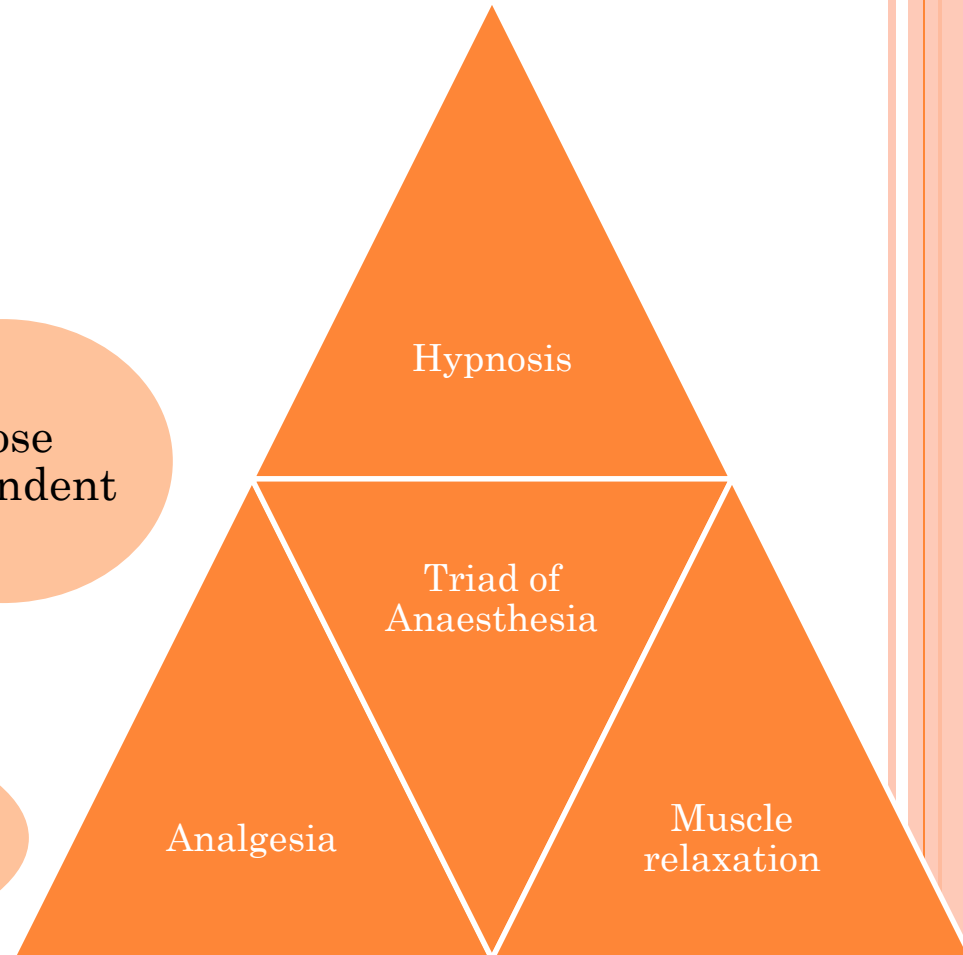
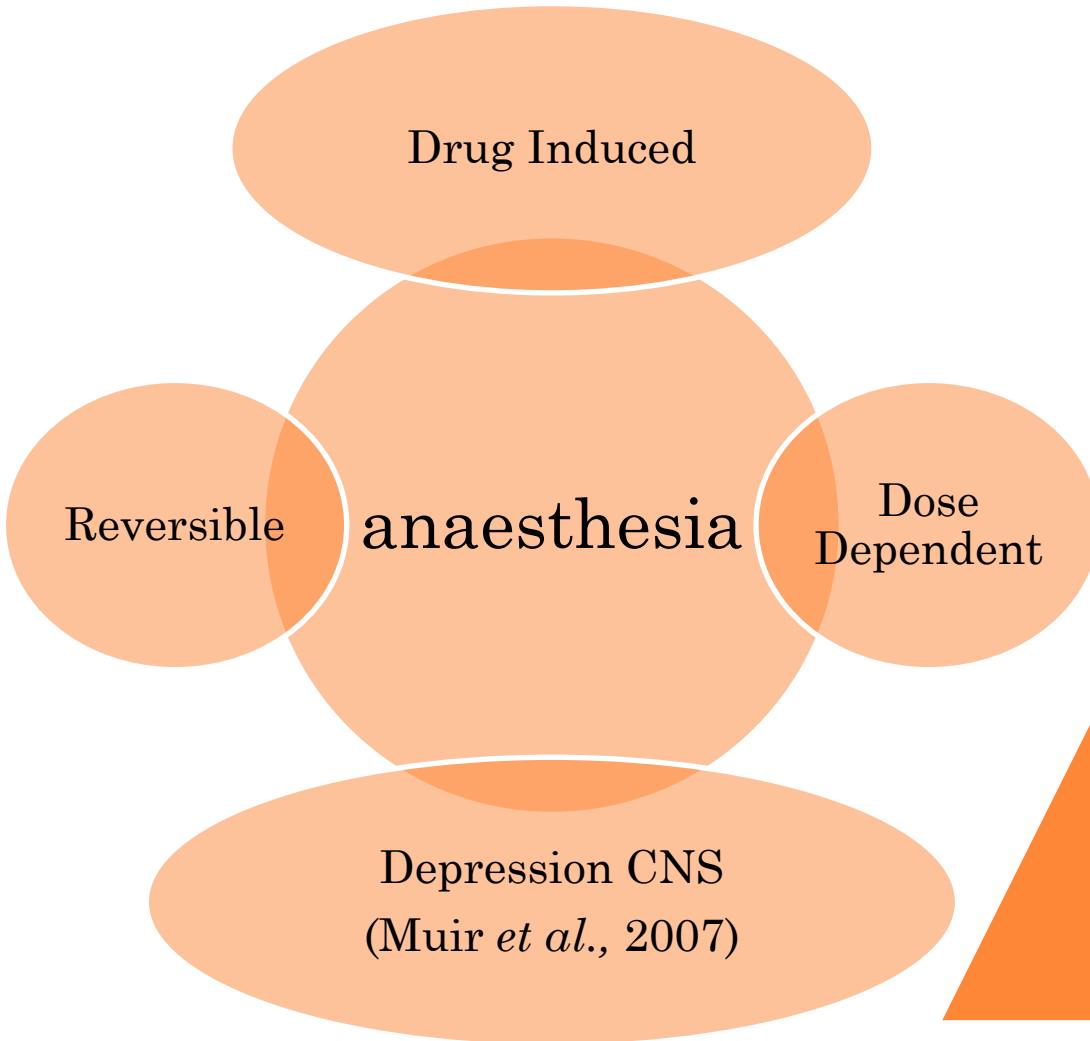
EFFECT OF INTRAMUSCULAR LIGNOCAINE INJECTION ON PROPOFOL HYPNOSIS IN DOGS

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INTRODUCTION



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- Lignocaine
- Propofol

RESEARCH QUESTION

- Can intramuscular injection of lignocaine exhibit synergistic effect or otherwise on propofol hypnosis?

AIM

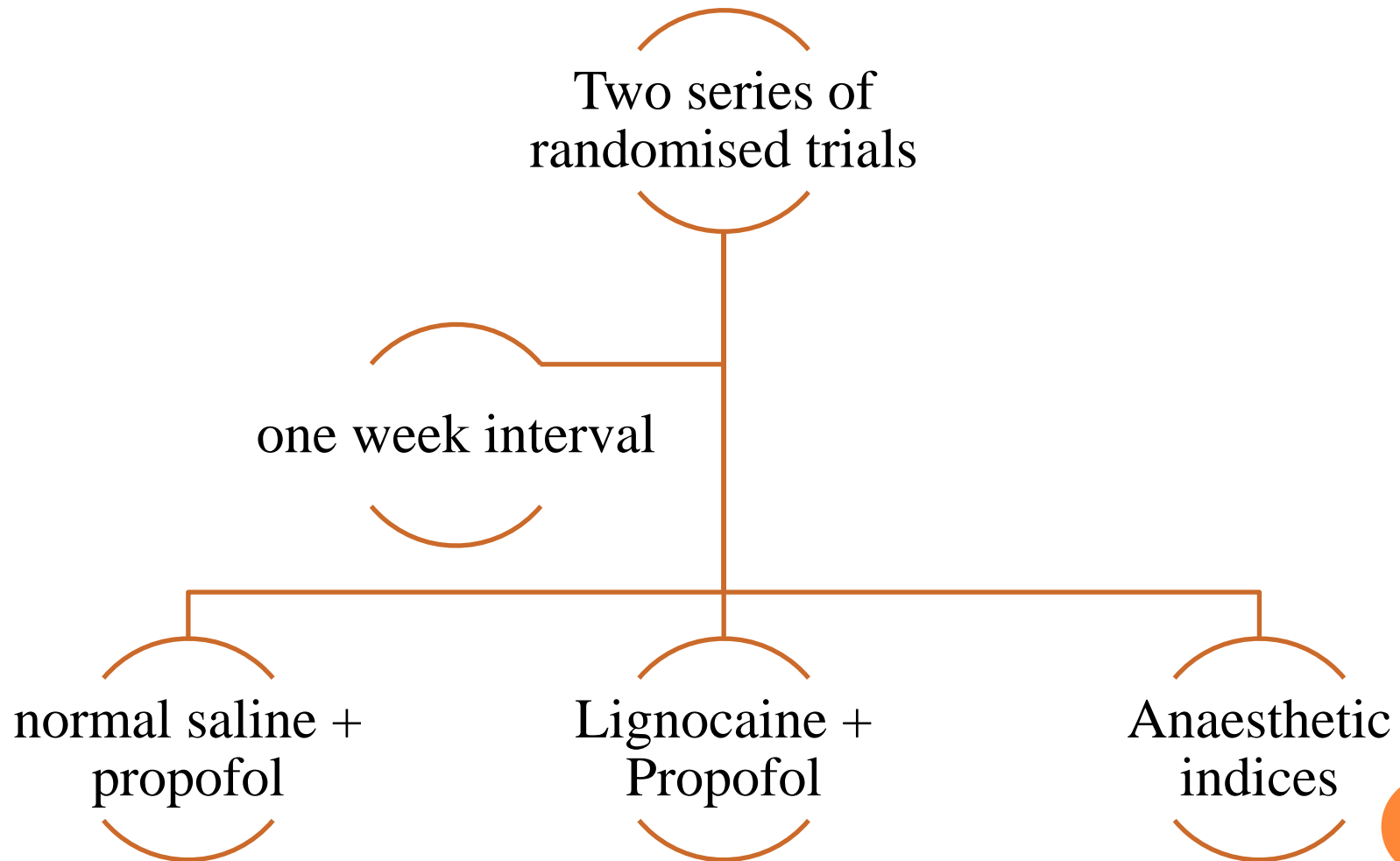
- the effect of intramuscular lignocaine on propofol hypnosis in dogs.

MATERIALS AND METHODS

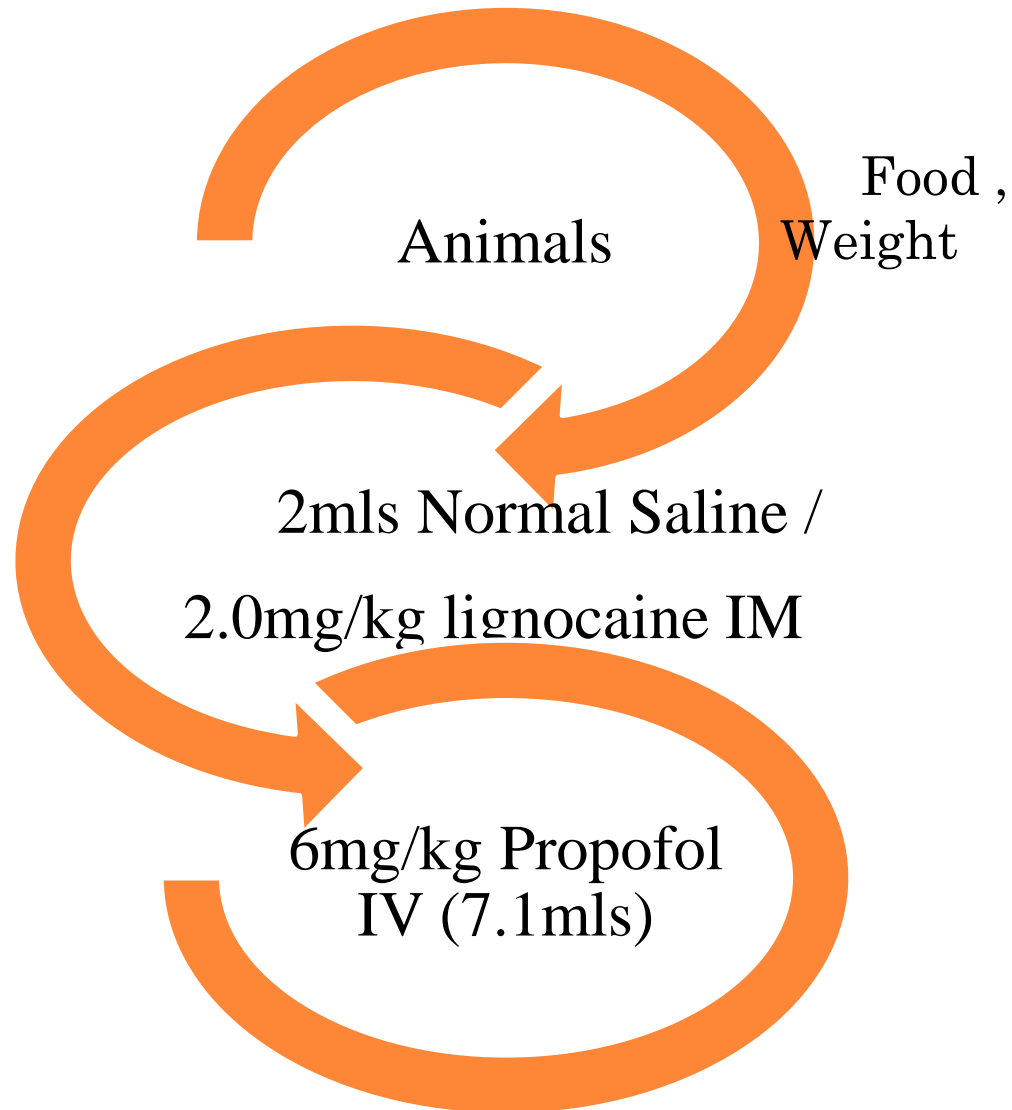
- 7 dogs
- 1.5 – 2.0 years
- $11.95 \pm 1.8\text{kg}$



EXPERIMENTAL DESIGN



EXPERIMENTAL PROTOCOL



RESULTS AND DISCUSSION

Anaesthetic indices of an IV induction dose of propofol after IM injection of lignocaine in dogs.

Index	SAL/PROP	LIG/PROP
Time of intubation (min)	3.4 ± 0.9	3.6 ± 0.8*
Onset of analgesia (min)	-	4.4 ± 2.0*
Duration of analgesia (min)	-	5.4 ± 1.2*
Duration of intubation (min)	7.6 ± 2.0	9.8 ± 4.8*
Duration of hypnosis (min)	11.0 ± 2.5	14.0 ± 4.3*
Time to sternal posture (min)	1.8 ± 0.9	3.4 ± 3.1*
Time to standing (min)	1.0 ± 0.5	2.4 ± 0.9*

CONCLUSIONS

- the combination of IM lignocaine with IV propofol enhanced the hypnotic effect of propofol
- a definite interaction between lignocaine and propofol.
- The interaction has a potentiating effect;

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your rasps
attention!!!