In this lab, the Proximal and Distal technique of paravertebral nerve block were demonstrated on 2 pregnant Does.

**Proximal Approach:**

Weight of Doe: 50 Kg (Pregnant)

Dosage for Lidocaine: 5 mg/kg

Concentration: 2% x 10 = 20 mg/ml

Volume to be administered (ml) = Weight (kg) x Dose (mg/kg)

                                                         Concentration (mg/ml)

Volume to be administered = 50 Kg x 5 mg/kg = **12.5 ml Lidocaine**

                                                    20 mg/ml

Toxic dose of Lidocaine: 12.5 ml

Half toxic dose of Lidocaine: 12.5 ml/2 = 6.25 ml

6 ml of Lidocaine diluted with Saline at a 1:1 ratio

Lidocaine : Saline

    1           :     1

  6 ml        :   6 ml  = **12 ml diluted Lidocaine**

Nerves blocked: T13, L1 and L2

Therefore; 12 ml/3 = **4 ml diluted Lidocaine per site**

**Distal Approach:**

Weight of Doe: 60 kg (pregnant)

Dosage of Lidocaine: 5 mg/kg

Concentration: 2% x 10 = 20 mg/ml

Volume to be administered =  Weight (kg) x Dose (mg/kg)

                                                     Concentration (mg/ml)

Volume to be administered = 60 kg x 5 mg/kg = 15 ml Lidocaine

                                                     20 mg/ml

Toxic dose: 15 ml Lidocaine

Half toxic dose = 15 ml/2 = **7.5 ml Lidocaine**

7.5 ml of Lidocaine diluted with Saline at a 1:1 ratio

Lidocaine : Saline

        1       :    1

     7.5 ml  :  7.5 ml  = **15 ml diluted Lidocaine**

Nerves blocked: Dorsal and Ventral branches of L1, L2, L4

Therefore: 15 ml/6 = **2.5 ml diluted Lidocaine per site**