



Kitten Neutering Principles

Kitten Quad



This App enables UK vets to calculate doses of an unlicensed quad anaesthetic combination to carry out early neutering in kittens.

The app cannot be downloaded at the moment because it is under review.

We expect it to be available again soon.



Keep healthy: Younger animals with juvenile immune system so best to do earlier in the day, before other operations

Keep fed: Withhold food for three hours only before surgery; do not withhold water. Offer food early in recovery

Keep calm: Keep littermates together, including recovery and reduce stress from noise, handling etc

Keep accurate: Weigh accurately and calculate doses based on BSA

Keep warm: Don't clip or wet excessively when prepping, warm ambient temp, keep insulated throughout and express bladder

Anaesthetic considerations: Cats Protection recommends that female cats are intubated for neutering and maintained on O₂. Also, that at least 20 minutes elapses after initial i/m medetomidine/ketamine injection before administering atipamezole

Quad protocol: Use equal volumes of: Medetomidine 1mg/ml, Ketamine 100mg/ml, Midazolam 5mg/ml and Buprenorphine 0.3mg/ml. Can mix in same syringe and give at same time.

Dosage of Methadone if using instead of Buprenorphine

Bodyweight (kg)	Volume Anaesthetic Drugs* (ml) (Based on body surface area)	Volume Reversal Agent 5ml/ml (ml)	Volume Meloxicam* 2mg/ml (ml)
0.50	0.04	0.020	0.05
0.60	0.04	0.020	0.06
0.70	0.05	0.025	0.07
0.80	0.05	0.025	0.08
0.90	0.05	0.025	0.09
1.00	0.06	0.030	0.10
1.10	0.06	0.030	0.11
1.20	0.06	0.030	0.12
1.30	0.07	0.035	0.13
1.40	0.07	0.035	0.14
1.50	0.08	0.040	0.15
1.60	0.08	0.040	0.16
1.70	0.08	0.040	0.17
1.80	0.09	0.045	0.18
1.90	0.09	0.045	0.19
2.00	0.10	0.050	0.20

Mass (kg)	Volume of each agent in methadone quad (ml)
0.1	0.01
0.2 - 0.3	0.02
0.4 - 0.5	0.03
0.6 - 0.8	0.04
0.9 - 1	0.05
1.1 - 1.3	0.06
1.4 - 1.7	0.07
1.8 - 2	0.08
2.1 - 2.4	0.09
2.5 - 2.8	0.10
2.9 - 3.2	0.11
3.3 - 3.7	0.12
3.8 - 4.1	0.13
4.2 - 4.6	0.14
4.7 - 5	0.15

