



**Constant Rate Infusions**

**Morphine or methadone CRI**

Loading dose 0.1-0.3 mg/kg IV SLOW

Size of fluid bag	100ml	250ml	500ml	1L
mls morphine /methadone	1 ml	2.5ml	5ml	10ml

For 0.1mg/kg/hr run at a rate of 1ml/kg/hr, for 0.2mg/kg/hr run at a rate of 2ml/kg/hr. MAX 3ml/kg/hr.

**Ketamine CRI**

Loading dose 0.25-0.5 mg/kg IV or IM SLOW

Size of fluid bag	100ml	250ml	500ml	1L
mls of ketamine	0.15ml	0.37ml	0.75ml	1.5ml

2.5mcg/kg/min run at a rate of 1ml/kg/hr

5mcg/kg/min run at a rate of 2ml/kg/hr

7.5mcg/kg/min run at a rate of 3ml/kg/hr

MAX 4 ml/kg/hr

**Lidocaine CRI** – Not in cats

Loading dose 1 mg/kg IV SLOW

Size of fluid bag	100ml	250ml	500ml	1L
mls lidocaine	7.5mls	18.75ml	37.5ml	75ml

NB withdraw the same amount of fluid from the bag before adding lidocaine

25mcg/kg/min run at a rate of 1ml/kg/hr

50mcg/kg/min run at a rate of 2ml/kg/hr

75mcg/kg/min run at a rate of 3ml/kg/hr

These are analgesic doses, as an antiarrhythmic the dose is higher and you can use it undiluted in a syringe driver.

**Morphine/lidocaine/ketamine (MLK) infusion**

Size of fluid bag	100ml	250ml	500ml	1L
mls morphine	1ml	2.5ml	5ml	10ml
mls ketamine	0.15ml	0.37ml	0.75ml	1.5ml
mls lidocaine	7.5ml	18.75ml	37.5ml	75ml

For morphine 0.1mg/kg/hr, ketamine 2.5mcg/kg/min and lidocaine 25mcg/kg/min run at a rate of 1ml/kg/hr

NB withdraw the same volume of fluid from the bag that is being added.

Remember to give a loading dose. MAX 3 ml/kg/hr



**Dopamine CRI**

**TO BE USED IF MAP, 60mmHg > 20 MINUTES AND HAVE TRIED DECREASING ISOFLURANE, TREATING HR IF NEEDED, INCREASING FLUIDS IF NEEDED AND GIVEN ADDITIONAL ANALGESIA**

- Dilute 20mg (0.5 ml of 40 mg/ml solution) in tot 20mls saline
- 100mg (2.5ml of 40mg/ml solution) in tot 100mls saline
- 250mg (6.25ml of 40mg/ml solution) in tot 250mls saline
- 500mg (12.5ml of 40mg/ml solution) in tot 500mls saline

This will make a 1 mg/ml solution.

Dopamine (mcg/kg/min)	1	2	3	4	5	10	15	20
ml/kg/hr	0.06	0.12	0.18	0.24	0.3	0.6	0.9	1.2

**Medetomidine CRI**

Dilute 0.2ml of medetomidine in 20ml of saline or lactated ringers

Dilute 1ml of medetomidine in 100ml of saline or lactated ringers

This will give a 0.01 mg/ml solution

Doses 1-5mcg/kg/hr

Medetomidine mcg/kg/hr	1	2	3	4	5
ml/kg/hr	0.1	0.2	0.3	0.4	0.5

NB patients can become refractory to the sedative effects over time

**Propofol CRI**

Propofol dose	0.1mg/kg/min	0.2mg/kg/min	0.3mg/kg/min	0.4mg/kg/min
ml/kg/hr	0.6	1.2	1.8	2.4

**Alxalone CRI**

Alfaxalone dose	0.05mg/kg/min	0.1mg/kg/min	0.15mg/kg/min	0.2mg/kg/min	0.25mg/kg/min
ml/kg/hr	0.3	0.6	0.9	0.12	0.15

Cats will tend to require higher doses, it would be unusual to require the doses shaded in grey for dogs

Both alfaxalone and propofol can be combined with fentanyl or methadone or another CRI to help reduce the quantity required.