

Lidocaine Infusion - Summary Clinical Guideline

Reference no.: CG – PAIN/2015/001

For use: Lap or open bowel resection, Cystoprostatectomy, complex spinal surgery and laparoscopic upper GI surgery.

Instructions for anaesthetist:

- Arcomed syringe driver loaded with 50ml syringe containing lidocaine 1%
- Select lidocaine programme, confirm concentration, and programme patient's weight.

Loading dose at induction: 1.5mg/kg (if appropriate)

- Select loading dose 1.5-2mg/kg to be delivered over 10 minutes
- Please see Appendix 1 for dosing regimens.

Peri-op maintenance dose: 1-2mg/kg/hr

- Select maintenance dose in ml/kg/hr
- A good starting rate **1.5mg/kg/hr** (ie for 80kg man - 120mg/hr = 12ml/hr)
- Run at the same rate until the end of surgery or until the patient leaves recovery.

Lidocaine 1% dosing regimens:

Concentration 10mg/ml, doses expressed as ml.

Give specified volume as loading dose then run at specified ml/hr for maintenance.

NB: Suggested starting rate of 1.5mg/kg/hr (highlighted in pink). This can be altered if there are drug interactions or signs of toxicity.

Weight (Kg)	0.5mg/kg	1mg/kg	1.5mg/kg	2mg/kg
50	2.5	5	7.5	10
60	3	6	9	12
70	3.5	7	10.5	14
80	4	8	12	16
90	4.5	9	13.5	18
100	5	10	15	20

If patient's BMI is >30, use Ideal Body Weight to dose lidocaine, which can be calculated as follows:

Height (cm) – 100 cm = IBW for women, kg.

Height (cm) – 105 cm = IBW for men, kg.