

St Vincents IR Local Anesthetic Limits

Max Dose of Anesthetic (mL)

| lbs | kgs | 1% lidocaine | | 2% lidocaine | | bupivacaine | | | ropivacaine | | bupivacaine / ropivacaine | |
|-----------------|-----|--------------|--------------------|--------------|--------------------|-------------------|------------------|------------------------|------------------|------------------|---------------------------|--------------------------|
| | | 1% lidocaine | 1% lidocaine / epi | 2% lidocaine | 2% lidocaine / epi | 0.25% bupivacaine | 0.5% bupivacaine | 0.5% bupivacaine / epi | 0.2% ropivacaine | 0.5% ropivacaine | 1:1 1% lido / 0.25% bupi | 1:1 1% lido / 0.50% bupi |
| 100 | 45 | 20 | 32 | 10 | 16 | 36 | 18 | 23 | 68 | 27 | 28 | 19 |
| 110 | 50 | 22 | 35 | 11 | 17 | 40 | 20 | 25 | 75 | 30 | 31 | 21 |
| 120 | 54 | 24 | 38 | 12 | 19 | 44 | 22 | 27 | 82 | 33 | 34 | 23 |
| 130 | 59 | 27 | 41 | 13 | 21 | 47 | 24 | 29 | 88 | 35 | 37 | 25 |
| 140 | 64 | 29 | 44 | 14 | 22 | 51 | 25 | 32 | 95 | 38 | 40 | 27 |
| 150 | 68 | 30 | 48 | 15 | 24 | 54 | 27 | 34 | 100 | 40 | 42 | 29 |
| 160 | 73 | | 50 | | 25 | 58 | 29 | 36 | | | 45 | 31 |
| 170 | 77 | | | | | 62 | 31 | 39 | | | 48 | 33 |
| 180 | 82 | | | | | 65 | 33 | 41 | | | 50 | |
| 190 | 86 | | | | | 69 | 34 | 43 | | | | |
| 200 | 91 | | | | | 70 | 35 | 45 | | | | |
| MAX DOSE | | 30 | 50 | 15 | 25 | 70 | 35 | 45 | 100 | 40 | 50 | 33 |

- Max volume of lidocaine can be given no more often than every 3 hours up to 8 total doses.
- Max volume of bupivacaine can be given no more often than every 3 hours up to 400 mg total bupivacaine (160 mL 0.25% or 80 mL 0.5%) in 24 hours.
- lidocaine max dose 4.5 mg/kg up to 300 mg
lidocaine w/ epinephrine max dose 7 mg/kg up to 500 mg
1% lidocaine has 10 mg per mL, 2% lidocaine has 20 mg per mL
- bupivacaine max dose 2 mg/kg up to 175 mg
bupivacaine w/ epinephrine max dose 2.5 mg/kg up to 225 mg
0.25% bupivacaine has 2.5 mg per mL, 0.5% bupivacaine has 5 mg per mL
- ropivacaine - max dose 3 mg/kg up to 200 mg
0.2% ropivacaine has 2 mg per mL, 0.5% ropivacaine has 5 mg per mL

• Williams, D.J., et al. A Nomogram for Calculating the Maximum Dose of Local Anaesthetic. Anaesthesia 2014, 69, 847–853.

• “Weight Based Local Anesthesia Toxicity Dose Calculator.” The Podiatry Institute, 2018.
www.podiatryinstitute.com/Local_Anesthetic_Toxic_Dose_Calculator.xls accessed 29 Sept 2018.