

ST VINCENTS IR LOCAL ANESTHETIC LIMITS

Updated
11/29/2018

		Max Dose of Anesthetic (mL)										
lbs	kgs	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.