

Maximum Recommended Local Anaesthetic Doses for Adults

These are recommended doses. These doses are not additive. When the maximum recommended dose of one local anaesthetic has been reached no further local anaesthetic should be given. Absorption varies depending on injection site/method of administration, and blood levels may increase in the elderly and unwell patient. Actual maximum dosage may be less than stated above so adjust dose accordingly. Beware of the risks, clinical signs and management of Local Anaesthetic Systemic Toxicity (LAST). Further information can be found in the Clinical Guidelines Page <http://www.nuh.nhs.uk/healthcare-professionals/clinical-guidelines/> or via the NUH Guidelines App.

Drug	Concentration (mg/ml)	Maximum dose (mg/kg)	Maximum volume (ml)								
			35 kg	40 kg	45 kg	50 kg	60 kg	70 kg	80 kg	90 kg	100 kg
(Levo) Bu pivacaine 0.25%	2.5 mg/ml	2 mg/kg	28	32	36	40	48	56	60ml (150mg)		
(Levo) Bu pivacaine 0.5%	5 mg/ml		14	16	18	20	24	28	30ml (150mg)		
(Levo) Bu pivacaine 0.75%	7.5 mg/ml		9.3	10.6	12	13	16	18	20ml (150mg)		
Bu pivacaine 0.25% <i>with Adrenaline (1:200000)</i>	2.5 mg/ml	2 mg/kg	28	32	36	40	48	56	60ml (150mg)		
Bu pivacaine 0.5% <i>with Adrenaline (1:200000)</i>	5 mg/ml		14	16	18	20	24	28	30ml (150mg)		
Ro pivacaine 0.2%	2 mg/ml	3 mg/kg	52.5	60	67.5	75	90	105	120	135	150
Ro pivacaine 0.75%	7.5 mg/ml		14	16	18	20	24	28	32	36	40
Ro pivacaine 1%	10 mg/ml		10.5	12	13.5	15	18	21	24	27	30

Yellow Local Anaesthetic Systemic Toxicity Management Boxes can be found in the following locations:

Cardiac Theatre 9
Anaesthetic Room
Carrell Ward
 (with HUB drugs)
Critical Care 11-16
 (with HUB drugs)
Day Surgery Unit, Recovery
 (Defib Trolley)
EAU
 (With HUB drugs)
Edward 2 Ward
 (Cardiac Arrest trolley)
Fleming Ward
 (with HUB drugs)
Labour Suite
 (Defib Trolley)
Main Theatre
 (Recovery + Defib Trolleys)
Obstetric Theatre
 (Defib Trolley)
Surgical Short Stay Unit

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Drug	Concentration (mg/ml)	Maximum dose (mg/kg)	Maximum volume (ml)								
			35 kg	40 kg	45 kg	50 kg	60 kg	70 kg	80 kg	90 kg	100 kg
Lidocaine 1%	10 mg/ml	3 mg/kg	10.5	12	13.5	15	18	20ml (200mg)			
Lidocaine 2%	20 mg/ml		5.25	6	6.75	7.5	9	10ml (200mg)			
Lidocaine 1% <i>with Adrenaline (1:200000)</i>	10 mg/ml	7 mg/kg	24.5	28	31.5	35	42	49	50ml (500mg)		
Lidocaine 2% <i>with Adrenaline (1:200000)</i>	20 mg/ml		12.25	14	15.75	17.5	21	24.5	25ml (500mg)		
Prilocaine 1%	10 mg/ml	6 mg/kg	21	24	27	30	36	40ml (400mg)			

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Obstetric Theatre
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Surgical Short Stay Unit

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References:

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- Smith A, Scart E, Sasada M (2011). *Drugs in Anaesthesia and Intensive Care*. 4th ed Oxford: Oxford University Press.
- *British National Formulary*. September 2014: National Institute of Clinical Excellence (NICE).