#### **Appendix 5: Anaesthetic Dosing**

#### Starting and Maximum Doses of 1.0% Lignocaine with and without Bupivacaine, By Volume

If bupivacaine to be used with lignocaine 1.0%, use concentration of 0.25% with 1:1 combination

Safe local anaesthetic dosing—starting* and maximum** volumes <b>1% Lidocaine</b>				
Weight in KG	Starting volume	Maximum safe volume		
20–29 kg***	4 ml	Additional 2 ml to TOTAL of 6 ml		
30–39 kg	6 ml	Additional 3 ml to TOTAL of 9 ml		
40–50 kg	8 ml	Additional 4 ml to TOTAL of 12 ml		
More than 50 kg	10 ml	Additional 5 ml to TOTAL of 15 ml		

\*Starting dose lidocaine (lignocaine) 2 mg/kg

\*\*Maximum safe dose lidocaine 3 mg/kg

\*\*\*For those weighing less than 30 kg, use 5 ml syringe so that volumes can be measured accurately Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.

Safe local anaesthetic dosing—starting\* and *maximum*\*\* volumes

# Mixture of 1% Lidocaine and 0.25% Bupivacaine

1:1 Mixture (equal volumes of each)

Weight in KG	Starting volume (1:1 mixture)	Maximum safe volume (1:1 mixture)
20–29 kg	3 ml of each (6 ml total)	Additional 1 ml of each drug to TOTAL of 8 ml (maximum 4 ml of each)
30–39 kg	4 ml of each (8 ml total)	Additional 2 ml of each drug to TOTAL of 12 ml (maximum 6 ml of each)
40–50 kg	5 ml of each (10 ml total)	Additional 3 ml of each drug to TOTAL of 16 ml (maximum 8 ml of each)
More than 50 kg	5 ml of each (10 ml total)	Additional 5 ml of each drug to TOTAL of 20 ml (maximum 10 ml of each)

\*Starting dose lidocaine (lignocaine) 1.5 mg/kg/bupivacaine 0.3 mg/kg \*\*Maximum safe dose lidocaine 2.0 mg/kg/bupivacaine 0.5 mg/kg

Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.

To improve provider efficiency through minimizing numbers of syringes needed, starting doses have been kept at or below 10 ml and maximum doses at or below 20 ml

### Starting and Maximum Doses of 2.0% Lignocaine with and without Bupivacaine, by Volume If bupivacaine to be used with lignocaine 2.0%, use concentration of 0.5% with 1:1 combination

Safe local anaesthetic dosing—starting* and maximum** volumes <b>2% Lidocaine</b>				
Weight in KG	Starting volume	Maximum safe volume		
20–29 kg***	2 ml	Additional 1 ml to TOTAL of 3 ml		
30–39 kg***	3 ml	Additional 1 ml to TOTAL of 4 ml		
40–50 kg	4 ml	Additional 2 ml to TOTAL of 6 ml		
More than 50 kg	5 ml	Additional 2 ml to TOTAL of 7 ml		
*Starting dose lidocaine (lignocaine) 2 mg/kg **Maximum safe dose lidocaine 3 mg/kg ***Use 5ml syringe so that volumes can be measured accurately Starting volume usually adequate; increase up to maximum volume (dose) only if required for pain control up to the maximum.				

Safe local anaesthetic dosing—starting\* and *maximum*\*\* volumes

# Mixture of 2% Lidocaine and 0.5% Bupivacaine

1:1 Mixture (equal volumes of each)

Weight in KG	Starting volume	Maximum safe volume	
	(1:1 mixture)	(1:1 mixture)	
20–29 kg***	1 ml of each	Additional 1 ml of each drug to	
	(2 ml total)	TOTAL of 4 ml (maximum 2 ml of each)	
30–39 kg***	2 ml of each	Additional 1 ml of each drug to	
	(4 ml total)	TOTAL of 6 ml (maximum 3 ml of each)	
40–50 kg	3 ml of each	Additional 1 ml of each drug to	
	(6 ml total)	TOTAL of 8 ml (maximum 4 ml of each)	
More than 50 kg	4 ml of each	Additional 1 ml of each drug to	
	(8 ml total)	TOTAL of 10 ml (maximum 5 ml of each)	
*Starting daga lidagaina 1 (lignagaina) E mg/kg/buniyagaina 0.2 mg/kg			

\*Starting dose lidocaine 1 (lignocaine) .5 mg/kg/bupivacaine 0.3 mg/kg \*\*Maximum safe dose lidocaine 2.0 mg/kg/bupivacaine 0.5 mg/kg

\*\*\*Use 5ml or smaller syringe so that volumes can be measured accurately

Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.