

## Surgery Lab Drug Calculation Table: Castration

Sex: Male  
 Breed: Jamaican Hope/  
 Jersey/Holstein  
 DOB: 3/09/2017  
 ID: 242

BCS: 3  
 Temperature: (38.0-39.3 °C)  
 Normal  
 Pulse: (60-80 beats/min) Normal

Respiration rate: (15-30  
 breaths/min) normal  
 MM: (Pink) normal  
 CRT: (<2 secs) normal  
 ASA grade: 1

Type of drug	Dose (mg/kg)	Conc. (mg/ml)	Weight / kg	Volume	Time given
<b><i>Sedative/Anaesthetic</i></b>					
Xylazine	0.05	20 (2%)	200	$V = \frac{0.05 \times 200}{20} = 0.5$	1:42 pm
Ketamine	0.1	100 (10%)	200	$V = \frac{0.1 \times 200}{100} = 0.2$	1:42pm
Lidocaine		20 (2%)		$V = \frac{\times}{\quad} = 10\text{ml}$	2:17 pm
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<b><i>Antibiotics</i></b>					
Pen Strep	20,000	200,000 IU	200	$V = \frac{20,000 \times 200}{200,000} = 20$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<b><i>Anti-inflammatory/Analgesic</i></b>					
Flunixin	1.1	50 (5%)	200	$V = \frac{1.1 \times 200}{50} = 4.4$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<b><i>Reversal / Emergency</i></b>					
Tolazoline	2 x (0.05)	100 (10%)	200	$V = \frac{0.1 \times 200}{100} = 0.2$	
Tolazoline	4 x ( )	100 (10%)		$V = \frac{\times}{\quad} =$	
Epinephrine	0.2	1 (0.1%)		$V = \frac{0.02 \times 200}{1} = 4$	

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Toxic dose for Lidocaine				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<i>Other Drugs</i>					
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	