

Surgery Lab Drug Calculation Table: Castration

Sex: Male
 Breed: Jersey/Holstein
 DOB: 27/12/2017
 ID: 251
 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
<i>Sedative/Anaesthetic</i>					
Xylazine	0.05	20 (2%)	160	$V = \frac{0.05 \times 160}{20} = 0.4$	3:30 pm
Ketamine	0.1	100 (10%)	160	$V = \frac{0.1 \times 160}{100} = 0.16$	3:30pm
Lidocaine		20 (2%)		$V = \frac{\times}{\quad} = 10\text{ml}$	3:40 pm
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<i>Antibiotics</i>					
Pen Strep	20,000	200,000 IU	160	$V = \frac{20,000 \times 160}{200,000} = 16$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<i>Anti-inflammatory/Analgesic</i>					
Flunixin	1.1	50 (5%)	160	$V = \frac{1.1 \times 160}{50} = 3.52$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<i>Reversal / Emergency</i>					
Tolazoline	2 x (0.05)	100 (10%)	160	$V = \frac{0.1 \times 160}{100} = 0.16$	4:07pm
Tolazoline	4 x (0.05)	100 (10%)	160	$V = \frac{0.2 \times 160}{100} = 0.32$	
Epinephrine	0.02	1 (0.1%)	160	$V = \frac{0.02 \times 160}{1} = 3.2$	
Toxic dose for Lidocaine				$V = \frac{\times}{\quad} =$	

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				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
<i>Other Drugs</i>					
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	
				$V = \frac{\times}{\quad} =$	