## **Bird Formulary**

Dilution of injected drugs allows more precise dosing, but may shorten the shelf life of the compound. Aseptic technique must be observed as mixtures (cocktails) are prepared; this includes using sterile vials, syringes and needles, wiping the cover of each vial or bottle with 70% ethanol or isopropanol, diluting with Sterile Water for Injection or sterile PBS (phosphate buffered saline) and not reusing needles used for dilution or administration. As with undiluted drugs, only new, sterile needles must be used for withdrawing aliquots from the cocktail and for administering injections. Diluted drugs must be labeled and dated, then discarded after 6 months, or at the expiration date of any of the components, whichever comes first.

These drugs and doses listed below can vary with the order and/or species of bird. Information listed is based upon current use in passerines.

Inhalation anesthetics – Best administered using a precision vaporizer. Without a vaporizer the dose of isoflurane is very high, and cannot be titrated. Survival surgery requires concurrent pre-emptive analgesia. **DOSE & ROUTE** DRUG NAME **FREQUENCY** and NOTES **EXPECTED DURATION** Isoflurane or 1-3% inhalant to Whenever general Induction is commonly Sevoflurane effect (up to 5% anesthesia is required performed in an induction box/chamber. Survival for induction). surgery requires concurrent pre-emptive analgesia. Carbon dioxide Inhalant to Once, at time of May be used for fast effect (cannot euthanasia terminal procedure. determine percentage) Injectable anesthetics-Ketamine combinations -DRUG NAME **DOSE & ROUTE FREQUENCY** and **NOTES EXPECTED DURATION** 

I.	1	I.	1				
Ketamine-Xylazine	(K) 5-30mg/kg +	First injection will last 20-	Provides surgical level				
	(X) 1.0-	30 minutes with	anesthesia. If re-dosing,				
	4.0mg/kg	supplemental boosters of	administer ketamine only				
	Dose may go	ketamine only, as needed.	at ¼ to ½ the original dose.				
	upto:						
	(K) 50 mg/kg +	Caution should be					
	(X) 30 mg/kg	exercised when using high					
		doses of K&X, especially					
	All IM in same	as higher dose of Xylazine					
	syringe.	can cause hypotension					
		and bradycardia.					
Reversal of alph	Reversal of alpha-2 agents-						
DRUG NAME	DOSE & ROUTE	FREQUENCY and	NOTES				
		EXPECTED DURATION					
Yohimbine	0.2 mg/kg IV or	Once. Repeat if needed.	For reversal of xylazine				
	1.25-2.25 mg/kg		effects. Side effects of				
	IM		yohimbine include CNS				
			excitement, muscle				
			tremors, salivation, and				
			increased respiratory rate.				

Non-steroidal anti-inflammatory drugs (NSAID) analgesia-						
DRUG NAME	DOSE & ROUTE	FF	REQUENCY and	NOTES		
		E	XPECTED DURATION			
Meloxicam	0.1-2 mg/kg IM		sed pre-operatively			
(Metacam®)		fc	or pre-emptive			
		analgesia and post-				
		Ol	peratively every 24			
		h	ours			
Local anesthetic/analgesics-						
DRUG NAME	DOSE &		FREQUENCY and	NOTES		
	ROUTE		<b>EXPECTED DURATION</b>			
Lidocaine	Do not exce	ed	Use locally before	Allow 3-5 minutes to		
hydrochloride	3 mg/kg tot	al	making surgical	take effect.		

dose, SC or	incision, duration of	
intra-incisional	analgesia is 90-200	
	minutes	