LIST OF DIFFERENT TYPES OF VETERINARY PROCEDURES AS PER SAVC*

	Mammal (and frogs)	Reptile (except frogs)	Unauthorised (non- SAVC), but trained researcher or animal technician	Para-veterinary procedure under veterinary supervision and SAVC authorisation	Veterinary procedure
PROCEDURE DESCRIBSION	Procedure code	e (UKZN)			
1. Animal* Animal handling	*H	*H	X		
2. Anaeathesia					
Inhalation (Scheduled drugs)	*AIH	SAIH		X	
Injection anaesthesia (Scheduled drugs) Immersion anaesthesia (tricaine methane sulfonate, clove oil or schedule drugs)	*AIN	SAIN	Х		
(frogs, fish and crabs)	*AIM		X		
Hypothermia anaesthesia	*AHY		Х		
Local anaesthesia (Schedule drugs)	*ALO	SALO		Х	
Injecting or local analgesia/ pain killers (can include Schedule drugs)				Х	
3. Sampling of body fluids: Bleeding	1		ı	1	
Cardiac puncture under anaesthesia From peripheral vessels (orbital sinus, tail clipping, toe clipping, tail bleeding) (mice,	*BCP			Х	
rats, hamsters, guinea-pigs) or dorsal aorta (fish)	*BPV, *HPV	SBTNC		X	
Surgical approaches e.g. catheter or jugular vein or femoral artery (rats, guinea-pigs,	50.07			V	
farm animals, pigs) Terminal procedures: using anaethesise animal- posterior vena cave, dorsal aorta or	FBJV			X	
axillary vessels	*BTP			X	
4. Sampling of body fluids: Other			1		
Ascites fluid collection (IP injection of pristane followed by cells, abdominal swelling, tap ascites fluid from abdominal)	*AP			X	
Macrophage collection (mice, rats, hamsters)	*BMC, *MC			X	
Polymorphonuclear leukocyte collection	*PLC			Х	
Bladder catherisation (rats, guinea-pigs, rabbits)	*BC, *SCR, *BBC			X	
5. Injections	ВВС			Α	
Subcutaneous	*ISQ, *ISO	SISQ		Х	
Intraveneous: Caudal (tail), lateral marginal (inner thigh), dorsal metatarsal (leg),	*113.4			V	
sublingual (tongue), penile (penis)	*IIV	CIID		X	
Intraperitoneal	*IIP *IIM	SIIP		X	
Intramuscular Intradermal	*IID			X	
Intragastric (oral)	*IIG			X	
Footpad (elephant shrews, mice)	*IFP			X	
Dorsal lymph sac (frogs)	*IDL			X	
Superovulation (frogs)	*ISO			Х	
Routine vaccinations of farm animals	FIIM, FIIV,				
6. Surgical procedures	FIMP, FISO		X		
Abdominal surgery to harvest oocytes (frogs)	*SHO				Х
Anterior neck- intratracheal injections, thyroidectomy (elephant shrews, mice, rats,					
hamsters)	*SAN				Х
Anterior neck- intubation procedures and vein catherisations (rodents and pigs)	*SAN			χ^	X
Thymectomy (removal of thymus) (elephant shrews, mice)	*STH				Х
Intrathymic injection (elephant shrew, mice)	*SIT				Х
Abdominal surgery and organ biopsies (elephant shrews, mice, rabbits)	*SA, *SAS				Х
Popliteal lymph node injection (incision in poplitea fossa behind knee joint to inject					
lymph node)	*SPL				X
Skin grafting (mice)	*SSG				X
Vasectomy (transgenic mice procedures, feral cats and dogs) Transgenic mice: Reinplantation by injecting oviduct	*STP *STP				X
Transgenic mice: Reinplantation by injecting oviduct Transgenic mice: Tail removal for DNA analyses	*STP				X
Cannulation of femoral vessels	*SFV				X
Catheterisation of vein (jugular) (guinea-pigs, farm animals, pigs)	FBCV				X
Castration (elephant shrews, mice, rats, hamsters)	*SCR				Х
Rumen fistulation and digestive tract cannulation (farm animals)	FRC				Х
7. Surgical procedures exclusive to farm animals and reptiles	FUTD				
Tail docking of farm animals (lambs) using rubber rings Disbudding (horns of cattle) after anaesthesia	FHTD FHD			X	
Dehorning and trimming horns	FHD			X	
Bloodless castration: Burdizzo (large pliers to crashing blood vessel inside scrotum),	FHCCR,			~	
rubber rings (cattle, sheep)	FHSCR			X	
Surgical castration of cattle, sheep	FHSCS				Х
Implants Floctropia culation (hulls and rams)	FIMP	SIRT		X	
Electroejaculation (bulls and rams) Training ram for semen collection, by hormone injections of females	FLJC, FLJS FLJT			X	
Training rain for semen conection, by normone injections of lethidies	FDT		<u> </u>	^]

			T		,
	Mammal (and	Reptile (except	Unauthorised (non- SAVC), but trained	Para-veterinary procedure under veterinary	Veterinary procedure
	frogs)	frogs)	researcher or animal	supervision and SAVC	procedure
PROCEDURE DESCRIBSION	Procedure code		technician	authorisation	
8. Physiological measurements					T
Respirometry (rodents and birds, reptiles, crabs)	*PRT, *PR	SPRT	X		
Temperature: probe in rectum of animal (rodents and birds)	*PT	SPST	X		
Thermoregulation (egg shell) Food consumption- metabolic cages (mice, rats)	*PT *PF, *MF	SPF	X		
Weight measurements	PF, IVIF	327	X		
Total body water by tritium dilution (frogs, elephant shrews, mice, rats, reptiles)	*PW, *MW	SPW	X		
Urine (indirectly) using collection containers (mice, rats)	*PU, *MU	0	X		
Non-shivering thermogenesis (SQ injection of norepinephrine) (mice, rats, rabbits,	*PS, *MS,				
birds)	*PA			X	
Activity measurements (response to temp, photoperiod ect.) (mice, rats, crabs)	*PA, *MA	SPA	X		
Rate of water loss (reptiles)		SPWL	X		
X-Ray techniques (mice, rats) 9. Euthanasia	*PX, * MX				X
Overdose of inhalant (Shedule drugs)	*EOD			X	
Injectable anaesthetic (including farm animals) Schedule drugs	*EIN, FECIN,				
injectable anaestnetic (including farm animals) scriedule drugs	FESIN	SEIN		X	
CO2 (mice and rats, small chicks)	*ECO			X	
Decapitation	*EDE			X	
Physical means by breaking the neck- anaethesised and consious	*EPM			X	
Brain fixation by intracardiac perfusion	*EBP			X	
Brain destruction (cattle) Electrical stunning (farm animals)	FECB FEST			X	
Head-to-back electrical stunning (farm animals)	FESTB			X	
In situ freezing (reptiles, crabs)	1 2 1 0	SEF		X	
10. Collecting and Capture wild animals	1				
Captured, removed and processed (wild birds, feral cats)	*C		X		
11. Identification of animals					
Ringing (birds)	*R		Х		
Freeze branding of cattle (cryobranding)	FCIDF		X		
Ear-tagging (cattle, sheep)	FCIDG, FSIDG		X		
Ear notching of cattle Ear tattoos of cattle	FCIDN FCINT		X		
12. General farm animal practices	PCINT				
Crutching, dagging and face-wool removal (sheep)	FHC		Х		
Shearing (sheep)	FHW		Х		
Dipping (sheep, cattle, goats)	FHDI		Х		
Drenching (farm animals)	FHDR		X		
13. Procedures not currently in the Approved Standard Protocols	T T				T
Creating clinical models: diabetes, infectious, stress, altzheimer, seizure prone,	Non orded			V	
hypertension and obesity animal models Inplants (transponders) (mice, tenrecs) with or without anaethesia drugs	Non-coded Non-coded		X	X	
Vaginal smears (mice and rats)	Non-coded		X	X	
Use of pregnant animals (mice and rats)	Non-coded		Α	Х	
Use of pups (mice and rats)	Non-coded			Х	
Ear clipping (mlce, rats and feral cats)	Non-coded			Х	
Stereotaxic surgery: anaesthesised animal is injected a chemical in the medial					
forebrain bundle in the dominant hemisphere followed by suture to close the wound					
(rats) Behavioural test: Single prolonged stress by restraining animal for a period of time	Non-coded			X^	Х
Benavioural test: Single prolonged stress by restraining animal for a period of time (rats)	Non-coded		x		
Behavioural test: Forced swim stress (rats)	Non-coded		X		
Denavioural test. Forced Swill Stress (Idts)	ivoii-coded		^		
Behavioural test: Contextual freezing measurement (Animal placed in conditioning					
chamber, given a foot shock (0.8mA, 4S) and removed, follow-up fear response is					
measured when returned to chamber relating to associated fear memory) 9rats)	Non-coded		X		
Behavioural test: EPM test: Maze test to score animals memory if he has visited a	Non coded		x		
particular arm or re-visit the same arms (rats)	Non-coded				
Behavioural test: Open field test, testsing activity in novel environment Behavioural test: Forelimb akinesia (step) test: Step length test by handing animal by	Non-coded		X		
its torso measuring the step taken by each forelimb (rats)	Non-coded		X		
Behavioral test: Limb use asymmetery test: Cyclinder test- rats use of limbs under					
free behavioural conditions	Non-coded		X		
Behavioral test: Following stereotaxic surgery the study assess the effectiveness of					
the submaximal dose of 6-OHDA used to lesion the hemisphere, contralateral to the					
preferred direction of rotation. Access impact and dose used for lesioning and determine the success of the surgical procedure (rats)	Non-coded		x		
Blood pressure measurement using tail cuff- animal place din warming chamber and	INOTI-COUCU				
blood presurre measure using tail cuff (rats).	Non-coded		Х		<u> </u>
blood presure measure using tall curl (rats).					1
Exposure to varying sound frequencies and intensities	Non-coded			X	

	Mammal (and frogs)	Reptile (except frogs)	Unauthorised (non- SAVC), but trained researcher or animal	Para-veterinary procedure under veterinary supervision and SAVC	Veterinary procedure
PROCEDURE DESCRIBSION	Procedure code	e (UKZN)	technician	authorisation	
Holding of captured animals	Non-coded				
Holding of crabs and aquacultured animals (fish, abalone and mussels)	Ho"				
Handling of crabs	Ha"				
Transportation of captured or laboratory animals (crabs, mice, guinea-pigs, rats)	T"		Х	Х	
Acclimitization of crabs and other aquacultured animals (fish, abalone and mussels)	Acc"		X		
Record keeping and documentation (crabs, but recommended for all species)	RKD"		X		
Euthansia: Bubbling CO2 in water (crabs)	Non-coded			X	
Euthanasia: Aneasthesia by chemically injecting shedule drugs followed by immersion in boiling water (crabs)	Non-coded			Х	
Euthanasia: Submersion overdose of anaesthetics (crabs)	AES"			Х	
Euthanasia: Brain destruction by crushing, pithing or carapace crushing (crabs)	AECO"		Х		
Release of captured animals (only permissable under appropriate DAFF lisencing) (crabs)	RC"		X		
Disposal of dead animals (crabs, but recommended for all species)	DC"		Х		
Semen training by masssaging abdomen (roosters)	Non-coded			X	
Force feeding (roosters)	Non-coded			X	
Applying a wing band ID tag to chickens	Non-coded		X		
Collecting blood from chicken wing blood vessel	Non-coded			X	
Euthanasia: Hypothermia euthanasia (fish) (ice slurry)	Non-coded	_	X		
Handling of aquacultured animals (fish, abalone, mussels)	Non-coded		X		
Respirometry of aquacultured animals (fish, abalone, mussels)	Non-coded		X		

^{*}SAVC, South African Veterinary Council

^{^^} If schedule drugs is used then person has to be SAVC authorised and work under veterinary supervision as defined below.

Animal codes		
Frogs	A*	
Elephant shrews	E*	
Mice	M*	
Rats	R*	
Hamsters	H*	
Guinea-pigs	G*	
Rabbits	L*	
Wils Birds	BW*	
Domestic Birds	BD*	
Cattle, sheep, goats and other farm animals	F*	
Bats	C*	
Reptiles: chameleons, tortoises, snakes		S*

Please also take note of the following:

Direction means that the designated person gives the authorised person directions but is not necessarily present when the procedures are carried out;

Supervision means that the designated person is present and in a position to assist, yet is not necessarily at the authorised person's side or in the same room; and

Direct and continuous supervision means that the designated person is present and giving the authorised person and the animal (where applicable) his/her undivided attention.

[&]quot;Unofficial coding from draft SOP

[^] If SAVC authorised person has shown to be competant in this procedure.