## CARDIAC BLOOD COLLECTION AND ADMINISTRATIONS IN MICE IN-PERSON TRAINING

## UNIVERSITY OF SOUTH FLORIDA COMPARATIVE MEDICINE

Attendee Name:			
	Print	Sign	Date
Discuss/Review:			
Collection directly from	om the heart (i.e., ca	ardiac) is a <b>terminal</b> proced	ure used to collect final large
volume.			
		e deeply anesthetized (inject	table or isoflurane), or
immediately followirUp to 1ml of blood car		JO2.	
		ia (Isoflurane is recommen	ded); this injection route is typically
done as a one-time a	•	•	aca,, and injection reals is typically
Up to 0.2ml volume m	nay be delivered to h	neart.	
			movement of the needle tip
	pping of the muscle t	that could result in prevention	on of full volume collection or
administration.			
Demonstrate/Assess:			
Cardiac Blood Collection			
The mouse must be a	nesthetized or euth	anized immediately prior to	collection.
		alcohol or Oxivir to assist wi	th visualization of landmarks
(e.g., xiphoid process	,		
			n the ventral surface & letting it
		s the technician is looking at	the xiphoid process at ~45° angle.
			stant slight negative aspiration
pressure.	oon madaada k lo c	da varioca irimo neoping con	ount ong nogum o dop duon
•	ned correctly, blood v	vill flow with very little pressu	re being applied to the plunger.
		oo much aspiration <b>force</b> ha	
•		re forced through the needle	into collection tubes. Care should
be taken to avoid both	1.		
Cardiac Administration			
	oflurane <b>anesthetiz</b> e	ed and placed in dorsal recu	umbency.
The thumb is placed	just under the anima	al's <b>left elbow</b> and the index	finger on the opposite side of the
chest.			
		and not to apply pressure/so	
		vith chlorhexidine/alcohol ba	sed skin sanitizer.  behind the elbow atop the tech's
thumb, parallel to the		combination is inserted just	berning the elbow atop the techs
·-		d slowly advanced while ke	eping <b>constant</b> negative
		-	o aspiration pressure needed if
positioned correctly wi		•	
Partial injection is ma	de, then paused and	d blood drawn back into the	syringe. This <b>mixes the cells</b>
and prevents possible	complications from	<b>clumping</b> , as well as, confir	ms placement within the left
ventricle has been mai	ntained throughout t	he injection.	
Training & assessment pr			
	1	Print	Sign Date

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