

# 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 the heart (i.e., cardiac) is a **terminal** procedure used to collect final large volume.
- \_\_\_\_\_ Blood **must collected** only when mice are deeply anesthetized (injectable or isoflurane), or **immediately following** euthanasia with CO<sub>2</sub>.
- \_\_\_\_\_ Up to 1ml of blood can be collected.
- \_\_\_\_\_ Cardiac Injection also **requires anesthesia** (Isoflurane is recommended); this injection route is typically done as a one-time administration and is **not repeated**.
- \_\_\_\_\_ Up to 0.2ml volume may be delivered to heart.
- \_\_\_\_\_ Both techniques require care and consideration regarding excessive movement of the needle tip so as not to cause ripping of the muscle that could result in prevention of full volume collection or administration.

## Demonstrate/Assess:

### *Cardiac Blood Collection*

- \_\_\_\_\_ The mouse must be **anesthetized or euthanized** immediately prior to collection.
- \_\_\_\_\_ The entire ventral surface is saturated with alcohol or Oxivir to assist with visualization of