



Rodent Tail Vein Injection (TVI)

Course Outline

Online Course (1-3hr)

- Methods of Restraint
 - Restrainers
 - Anesthesia
- Guidelines for Tail Vein Injection
 - Maximum volume, syringe/needle sizes
 - Biocompatibility
- Steps of Tail Vein Injection
- Potential Complications

Hands-On Lab Outline (3hr)

Lab tasks	Approximate time required
Enter lab, wash hands, don lab coat and gloves	5-10 minutes
Introduction, discuss experience, and strains	5 minutes
PowerPoint presentation	10 minutes
Tail vein injection video (mice only)	7 minutes
Practice IV injections on the mouse/rat translation tool tail	5 minutes
Anesthetize the animal and practice IV injections	1-2 hours
If applicable, practice IV injections with conscious animals	1 hour