

**Adoptive Lymphocyte Transfer in Mice**  
**IACUC Standard Procedure**  
**Effective Date: August 2025**

**Description of procedure:**

Adoptive Transfer Protocol: A donor mouse is euthanized by [UCSF Euthanasia Policy](#), and lymphoid cells from donor mice are aseptically prepared as a single cell suspension and adjusted to an appropriate final volume with sterile saline. Recipient mice are injected via IV tail or retro-orbital vein within the maximum volume referenced in the standard procedure, [UCSF Tail Vein Injection](#), [UCSF Retro-Orbital Injection](#). If anesthetized, mice will be monitored continuously until ambulatory.

Mice will be evaluated for general appearance, ability to move normally around the cage and reach food and water, ability to eat and drink, grooming habits, skin color, and lethargy.

**Agents:** If injection is performed via the retro-orbital vein, anesthetics are required. All agents administered should be included in the “Agents” section of the RIO IACUC protocol.

**Adverse Effects:** Potential adverse effects include trauma to the eye (if performing retro-orbital injection) and graft vs. host disease. Adverse effects should be listed in the “Adverse Effects” section of the RIO IACUC protocol.

**Alternatives Considerations Search:**

| <u>Date of Search</u> | <u>Key Words</u>  | <u>Search Site</u> | <u>Years Covered</u> |
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| 9/5/2025              | Adoptive Lymphocyte Transfer, intravenous, lymphoid cells, graft vs. host, alternative, refinement, distress, pain, mouse | PubMed             | 1965-2025            |