

SMU Animal Care Committee

Policy for Use of Avian Embryos

Date of SMU ACC Approvalt2 September 2024

I. Purpose:

This policy applies to all avian embryos used in teaching and research at Saint Mary's University and Mount Saint Vincent UniversityThe intent of this policy is to describe therocess for disclosing work with avian embryos, and to describeuthanasia procedures for chick embryos in various stages of development as well as to ensure euthanasia procedures are in place for inadvertently hatched chicks.

II. Background:

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Chicken embryos, which hatch in approximately 21 days, are considered the model species. If other avian species are used, then the guidelines should be adjusted based on relative time to hatching

III. Guidelines:

Investigators or instructors using avian embryos must inform the Animal Care Committee of their intent to use avian embryos using A SMU or MSVU Standard Operating Procedure Form.

The SOP should describe

- i. The general objectives and procedures performed on the aviæmbryos, and at what developmental stage.
- ii. The method of euthanasia, including methods in the case of inadvertent hatching.
- iii. The method for tracking number of eggs/embryos, embryoniday, and incubation checks from personnel.

Chick embryos younger than embryonic day 10 (E10) are assumed to be unable to experience pain.

E10 or younger embryos should be euthanized be yither:

- i. Hypothermia in a-20C freezer for a minimum of 4 hours.
- ii. Rapid decapitation.

