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## Passive Gas Anaesthetic Waste Scavenging

The intent of the Standard Operating Procedure (SOP) is to describe passive gas anaesthetic waste scavenging. The SOP is intended for all Comparative Medicine (CM) operation and veterinary staff and research staff using inhalant anaesthesia when the animal is undergoing general anaesthesia.

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### 1. INTRODUCTION

The intent of this SOP is for passive gas anaesthetic waste scavenging using inhalant anaesthesia waste canister. All CM and research staff using inhalant anaesthetics must follow this SOP. All anaesthesia machines must be equipped with a gas anaesthetic waste canister (activated charcoal) unless Anaesthesia Gas Scavenging System is used to scavenge the waste gas.

### 2. PROCEDURES

- a. Obtain new gas anaesthetic waste canisters (with sticker label) from facility supervisors.
- b. Record initial weight of the canister.
- c. Place the gas anaesthetic waste canister upright and below the vaporiser of the anaesthesia machine.
- d. Remove and weigh the gas anaesthetic waste canister before any usage of the anaesthesia machine. Record the weight and date of use on the canister label (see Appendix A). Weigh and record the canister again after each use or after 4 hours of continuous use.
- e. Replace the gas anaesthetic waste canister when the weight of the canister increases by 100 - 120 grams (Enviro-Pure - see Appendix B) over its initial weight. For canisters manufactured by other companies, follow the recommendations of the weight increase specific for that product as indicated on the canister label.
- f. Place the exhausted anaesthetic waste canister in a biohazard bag and dispose of as biohazard waste.

**3. REFERENCES**

- <http://www.research.cornell.edu/care/documents/ACUPs/CARE712.pdf>
- <https://www.research.buffalo.edu/laf/resources/sop/4A16.pdf>
- <http://www.lar.msstate.edu/pdf/Disposal%20of%20Waste%20Gas%20Anesthetics.pdf>

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.01	James Low	17 June 2013	110.01
.02	James Low	19 April 2016	110.02
.03	James Low	23 Jan 2019	110.03
.03:	Change personnel to provide canister; Add recommendation of the weight increase when other product is used		
.04	James Low	09 July 2025	110.04
.04:	Reviewed		

4. APPENDIX

Appendix A: Sticker label (example) to put onto the gas anaesthetic waste canister

<b>Initial weight:</b>					
<b>Canister to be replaced when weight exceeded:</b>					
<b>*** Canister to be weighed &amp; recorded every time before used</b>					
Date	Wt	Date	Wt	Date	Wt

Appendix B: Enviro-Pure gas anaesthetic waste canister

