



PPL Standard Condition 18 Notification Form

Please use this form to notify the Animals in Science Regulation Unit (ASRU) of procedural-related adverse effects that have exceeded or are likely to exceed the severity limitations or controls described in the project licence. ASRU will use this information to determine whether any further action is required.

Do not use to report:

- adverse effects that are due to non-procedural issues;
- potential non-compliance (report by other means);
- issues without adverse welfare consequences.

If you are in doubt whether or not you need to fill in this form, please contact your assigned Inspector.

Please clearly title your document: '**ASRU_establishment name_PPL number_PPLh surname_date_sc18**' and send to your Inspector (e.g. using cjsm) with the subject heading 'PPL SC 18 Notification PPL [Number]

Establishment Licence name	University of Cambridge
Establishment Licence number	X81BD37B1
Name of PPL holder	Alejandro Carnicer Lombarte
PPL number	SP144753
Protocol no	Protocol 2
Protocol title	Inoculation of subcutaneous glioma, implantation and testing of a drug-delivery device.
Severity classification	Moderate

1. Date of incident	26 th Nov 2024
2. Species	Athymic Nude Mice
3. Brief details of study and how the limits or constraints have been breached	The animal was found moribund the day after surgery. The procedure involved the subcutaneous implantation of an iontophoresis drug delivery device on the flank of the mouse. Three incisions were made for the implant: one on the flank and two ports on the back. This procedure is classified as moderate under the applicable PPL. The other mouse that underwent the same surgery on the same date did not exhibit any significant bleeding, listlessness, or notable signs of pain. The mice were checked twice daily for any symptoms of pain. The affected mouse was found by an animal technician in the next morning. Post-operative care was provided to monitor her recovery. The animal was kept in a heated chamber with a vet bed in for an hour after surgery to support better recovery and was returned to her cage once she became alert and active. The heat pad was attached on their cage. Both animals that got the same surgery on the day got recovered after the surgery before the cage was returned to the rack. The animal was observed eating nutrient gel. Metacam was administered in the evening at 18:00.
4. Have you taken advice from the Named Animal Care and Welfare Officer/Named Veterinary Surgeon/others?	The animal technician emailed all of the related people through email to inform that the animal got humanely culled under the decision made by the staff member. The NACWO and NVS were included in the email by the animal technician once the mouse was culled. I am reviewing the surgeries performed with this new implant with the NACWO and NVS.
5. Cause of Problem, if known	We couldn't find any noticeable cause from a dissection. The surgery site was clean, there was no bruises, no perforation, bleeding, etc

6. Action that has been or will be taken <i>(For example, formulation of drug changed, supportive treatment given, study design modified). If no action needed, indicate why (for example, none required as study has been terminated and will not be repeated)</i>	The animal was humanely culled after being found moribund. While no clear cause of the issue was identified, it is assumed that the animal may not have fully recovered from the surgery, which could have caused distress. To mitigate similar incidents in the future, enhanced post-operative care will be implemented, including adjustments to the recovery duration and closer monitoring. Additional precautions will be taken during surgery, such as minimising the duration of the procedure to reduce risks, adding extra heat mats and nesting materials on the home cage, and ensuring thorough observation for the body temperature both during and after surgery. Special attention will be given to body temperature management, particularly since these animals lack a natural fur coat, making them more susceptible to the cold. The scientists involved in this study will continue investigating potential issues with the implant that may have contributed to this situation. Frequent health checks will also be conducted post-surgery to ensure the well-being of the animals.
7. Reported by (name)	Chaeyeon Lee
8. Date	26 th November

*****For official use*****

Inspector's comments and recommendations:

Comments and recommendations	
Inspector name	

Date	
------	--