The Value of Looking Back: Improving Science and Welfare through Retrospective Review

Maggy Jennings ¹, Bryan Howard ² & Manuel Berdoy ³

¹ Royal Society for the Prevention of Cruelty to Animals, UK, ² Laboratory Animal Science Association, UK, ³ Oxford University, UK.

SUMMARY

Several European countries now require retrospective review of research projects. This provides a clear time point at which to review the scientific progress in relation to the actual versus predicted harm/benefit assessment, to consider further implementation of the Three Rs and to facilitate project management. Retrospective Review can improve welfare, science, ethics and project management *when it is done well* but its value is heavily dependant upon how it is carried out.

The following presents the conclusions and recommendations of two workshops organised by the Ethics, Training and Education Section of the UK Laboratory Animal Science Association (LASA).

A) It identifies the key benefits and objectives of retrospective review and provides a set of '25 points to consider' within the review.B) It provides some guidance on how the efficiency and effectiveness of the process can be optimised.

The general principles are relevant to any arrangement for reviewing animal work, including reviews carried out by funding or grant-awarding bodies.

A THE KEY OBJECTIVES OF THE RETROSPECTIVE REVIEW & 25 POINTS TO HELP ENSURE THAT THEY ARE MET

Key Objective 1:	Key Objective 2:		Key Objective 3:	
To determine whether the actual harms & benefits are in line with those	To identify, build on and encourage implementation and improvements in the 3Rs during the course of a project.		To facilitate project management.	
 anticipated. <i>i.e. the <u>current state</u> of the harm/benefit ratio:</i> 1. Are the adverse effects and severity in line with what was predicted? 2. Is the science on track? Are the results as expected? Are there successes to be recognised (including unexpected ones)? 3. Is the animal model still the most appropriate for this type of study? 4. Are there any recent developments in science or technology which should influence the direction or conduct of the study? 	 <i>i.e.</i> the <u>technical aspects</u> of exactly of the probability of the probability	Is/models (including new <i>in</i> that would involve less un be improved to answer ely? Inimals used statistically many) in the light of the surgery, administration, be improved? Are score in humane endpoints be o animals associated with using and care, be reduced term studies coping? Are bural problems? The needs arisen?	 cost/benefit ratio: 16. Are any amendments likely to be needed in the near future, perhaps due to unexpected costs or unexpected discoveries as highlighted in key objective 1? 17. Is the programme of work appropriately flexible? 18. Are the facilities (still) appropriate? Is there anything that the researcher should be made aware of (<i>e.g.</i> refurbishment, equipment supplies)? 19. Are there an human resource issues (e.g. staff shortages)? 20. Is communication within and/or between research team(s) appropriate? 21. Has a training need been identified? 22. Do the Animal Care staff or the Veterinary Surgeons have any general concerns? 23. Are their roles well supported by the establishment? 24. Has/can the information on 3Rs be disseminated within and/or between institutions ? 25. Are commendations possible within the establishment? 	
B The BEST PROCESSES lead to the BEST OUTPUTS There is no clear harmonised guidance on how retrospective review should be done. A 2005 FELASA survey shows a variety of approaches, including ongoing or annual reviews, or at completion of the project. The focus should be on achieving a successful output rather than on developing overly bureaucratic processes. The following factors are key to its success.				
Key factor 1: Make it a positive & constructive experience Create a workal		Key factor 2: ble process - there is no o	ne rule for all!	Key factor 3: Ensure that it is properly resourced
science and animal welfare • The process and objectives should be clear • Include information in local training courses • Be inclusive of all relevant staff • Focus on discussion and outputs not filling in forms • Provide - and explain – feedback. If there are		n timing - think about this at cts for review <i>e.g.</i> those using rere procedures, new models, tation to a minimum - be clea hould be provided s involved - it may not need a utputs and how to take thing	 management & team meetings Combine with other activities (<i>e.g.</i> review by grant-awarding body, preparing papers or presentations for publication, submission of amendments) Involve senior management so they 	
Further I		References		
LASA (2004) has defined a list of k operation, which are already in u developing further resources. Th the LASA website www.lasa.co. An electronic copy of this pag training	 FELASA (2005) Principles and practice in ethical review of animal experiments across Europe. A report prepared by the Working Group on Ethical Evaluation of Animal Experiments. www.felasa.eu/recommendations.htm LASA (2004). Guidance Notes on Retrospective Review. A Discussion Document Prepared by the LASA Ethics and Training Group (M. Jennings and B. Howard eds). Available for download from www.lasa.co.uk/publications.html 			