

Implementing Guidance on Significant Changes: One Institution's Experience

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Objectives

- Review NOT-OD-14-126; in particular we will outline key components of a functional VVC.
- Provide institutional and programmatic context for CSU's implementation of NOT-OD-14-126.
- Outline how CSU IACUC chose to implement VVC at our institution, including an overview of our VVC policies.



Objectives (cont.)

- Examine CSU's VVC review process, certain aspects of our VVC policies, and a comparison of protocol review metrics for Classic IACUC Review vs. VVC.
- Discuss CSU SOP revisions and why we made these changes
- Apply VVC in specific situations using scenarios.

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NOT-OD-14-126: Definition of a Significant Change	
"Significant changes include changes that have, or have the potential to have, a negative impact on animal	
welfare.	
In addition, some activities that may not have a direct impact on animal welfare are also considered to be significant."	
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NOT OD 44 43C. Davis mark 4	
NOT-OD-14-126: Paragraph 1	
Nonsurvival to survival surgery	
 Procedure results in greater pain, distress or invasiveness 	
Housing location not part of the animal care program	
Species	
• Study objectives	
Principal InvestigatorImpact on personnel safety	
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NOT-OD-14-126: Paragraph 2	
1101-00-14-120. Falagiapii 2	
Defines changes that may be reviewed administratively	
according to IACUC-reviewed and approved policies in	
consultation with a veterinarian authorized by the IACUC.	
 Anesthesia, analgesia, sedation or experimental substances 	
 Euthanasia to any AVMA approved method 	
 Duration, frequency, type or number of procedures 	
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NOT-OD-14-126: Paragraph 3

Defines changes that may be reviewed administratively according to IACUC-reviewed and approved policies.

• Increase in animal numbers



NOT-OD-14-126: Paragraph 4

Changes that may be handled administratively without an IACUC approved policy, consultation or notification include:

- Updated contact information
- Typographical and grammatical errors
- Change in personnel (not PI)



Veterinary Verification and Consultation (VVC)



"policies" = guidance documents, standard operating procedures, and drug formularies.



Institutional Context: CSU Research CSU ACUP: 600+ protocols Veterinary school Veterinary clinical studies Infectious disease Biomedical research Ag satellite facilities Increasing private sponsors FDA regulated work Colorado State University

Two Policies

VVC Process developed by IACUC—2 documents:

- Protocol Review Process
 - FCR
 - DMR
 - VVC
 - Administrative
- Performance of Repeat Procedures
 - Outlines what procedures can be amended under VVC

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Implementation of NOT-OD-14-126 at CSU

Drugs	Anesthesia, analgesia, sedation, experimental substances		
Euthanasia method	Any method approved in AVMA Guidelines for the Euthanasia of Animals		
Procedures	Duration/frequency/type/number of procedures performed on an animal (Diehl et al, J App Tax 21:15-23, 2001)		

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VVC Review Process

- Amendment evaluated by IACUC Administrators to determine if it meets VVC policies.
- If the amendment falls into one of the categories under our VVC, then it gets assigned to VVC Review.
- AV verifies online with the appropriate section from the policies.
- IACUC office processes amendment approval.



VVC Review Process (cont.)

- If AV believes it does not fall under VVC, but it was assigned to VVC, then s/he comments that it needs to be sent out for DMR, usually with a rationale.
- IACUC office reroutes amendment for Classic IACUC Review in online protocol system.



Additional Considerations

VVC revisions since implementation in October 2014:

- Experimental substance administration
- Additional strains/sources of animals
- Space requirement changes
- Final disposition clarification
 - Adoption, euthanasia, transfer to other protocols



Additional Considerations (cont.)

VVC revisions (cont.):

- Examples of "duration, frequency, type of procedures"
 Nasal, buccal, fecal collections
- Number of procedures (no increase pain, distress, or
- invasiveness)
- Reference materials used with the policy



VVC Review Documentation

- Veterinarian includes their rationale in their amendment review online.
- IACUC office includes this in the monthly meeting minutes, allowing the entire IACUC to review.
- Any question about DMR/FCR vs. VVC/administrative review → Goes to Classic IACUC Review.



Communication of VVC Implementation

- Quarterly Lab Liaison meetings
- IACUC Office and AV provided short Q&As at department faculty meetings
- One-on-one communications with researchers



CSL	l Protoco	l Metrics

- Classic IACUC Review vs. VVC Review: January to August 2016:
 - Average: 24 days vs. 4.5 days or fewer
 - Percentage of total amendments: about 19%
- Classic IACUC Review vs. VVC Review: January to December 2015:
 - Average: 26 days vs. 6 days or fewer
 - Percentage of total amendments: about 18%



Scenario #1

PI approved for use of ketamine/xylazine anesthesia in mice.

They want to expand the dose range listed in the protocol.



Scenario #1: Result

If change is within parameters of formulary \rightarrow VVC

If change is not within parameters of formulary → Classic IACUC Review



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Scenario #2	
The PI is approved to euthanize their rats by cervical dislocation while under isoflurane anesthesia.	
They would like to amend their protocol to include euthanasia by exsanguination while under	
anesthesia.	
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Scenario #2: Result	
VVC—exsanguination under anesthesia is an AVMA	
approved method of euthanasia	
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Scenario #3	
The PI has euthanasia followed by tissue collection	-
procedure included on their protocol.	
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They want to amend it so that they can collect the tissues while the animal is under anesthesia and still	
alive, then euthanize after tissue collection.	
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Scenario #5	
A protocol is approved to perform cystocentesis in	
cats to evaluate biomarkers.	
The PI would now like to amend their protocol to include blood collection at 1, 6, and 12 hours to	
evaluate biomarkers in the blood.	
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Scenario #5: Result	
Although blood collection guidelines are outlined in	
our policy, since this is a new procedure to the	
protocol, it is not eligible for VVC and must be reviewed by the IACUC.	
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Scenario #6	
PI protocol involves placing a vertebral disk fusion	
device in sheep followed by 8 week recovery period, then euthanasia.	
They would like to transfer the animal to another	
IACUC approved protocol for a terminal surgical procedure.	
procedure.	1

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Scenario #6: Result	
This is not specifically addressed in the OLAW guidance; however, the CSU IACUC policy on VVC review has included disposition of animals as a component of VVC.	
Since sheep are being transferred to a protocol that does not involve more pain/distress/invasiveness than original protocol, it is eligible for VVC.	
However if transfer request was for a survival surgery, this would require IACUC review.	
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Question #1	
My institution is concerned about increasing the likelihood of getting into non-compliant situations with VVC implementation. The potential risks appear to outweigh the benefits.	
How did CSU handle this issue and what did their IACUC say?	
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Question #2	
How has CSU navigated the documentation	
requirements of VVC implementation with their online protocol system?	
protocor system:	

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Could you please provide how the VVC process is different from veterinary care? Or are they the same thing?

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Questions?



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OLAW Online Seminars

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Self Evaluation and Reporting:
Always Let the Guide be Your Conscience

George Babcock, PhD, University of Cincinnati College of Medicine and Shriners Hospitals for Children