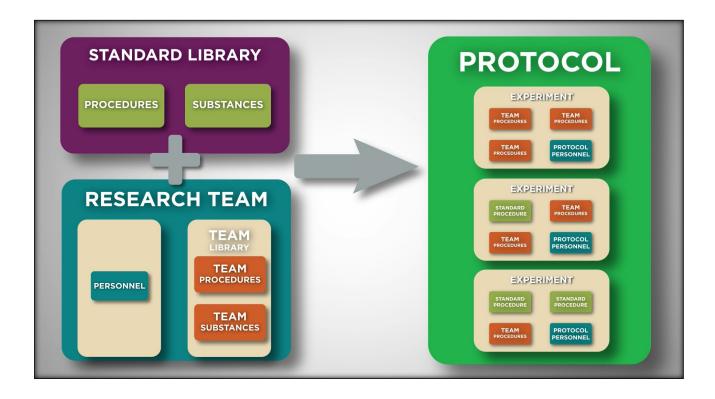


The objective of this quick guide is to help Principal Investigators understand how to work with substances, procedures, and experiments within the Click IACUC module.

### 1. Building Block Concept.

Within the Click IACUC module, the protocol construction process is based on the building block approach. To create a protocol, a Principal Investigator (PI) builds experiments based on the substances and procedures involved, then combines the experiments into a comprehensive research protocol. There are standard substances and procedures approved by the IACUC and ready for use by PIs. PIs can also create their own substances and procedures, which the system labels as team substances and team procedures.



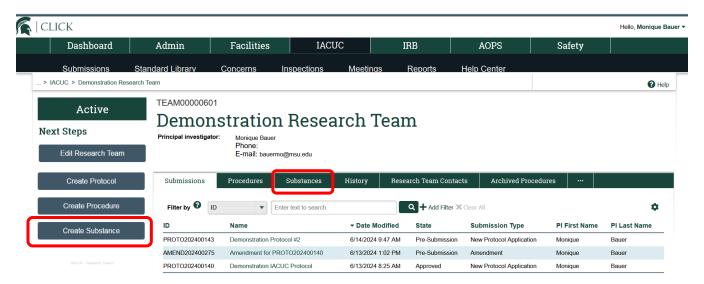


#### 2. Substances

Substances are the smallest building block within the Click IACUC module and are incorporated into the Substance Administration procedure type.

To create substances, begin at your Research Team workspace. The Substance tab is located along the center of the page. This tab houses Standard Substances already approved by the IACUC. Standard Substances may be selected for your team's research at any time. Once team substances have been created, these will be available exclusively to your research team.

To create your own substances, select the button along the left side, *Create Substance*.

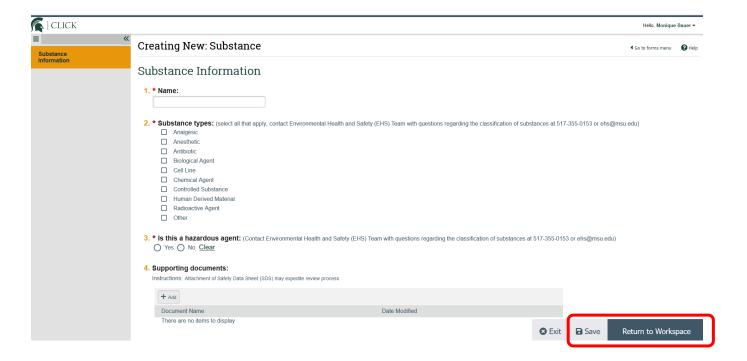


After selecting the *Create Substance* button, a page will open where substance details are required:

- First, name the substance in Question 1;
- Categorize based on the substance types listed in Question 2, noting that more than one selection can be made; and
- Indicate if the substances is hazardous in Question 3. If the substance is hazardous, select the hazardous classifications that appear, noting that more than one selection can be made.
- If there are any supporting documents or safety documentation, please attach under Question 4 by selecting the *Add* button. Once the page is complete, select the *Save* and *Return to Workspace* buttons.

This substance is now a team substance available to your research team and ready for incorporation into a procedure.





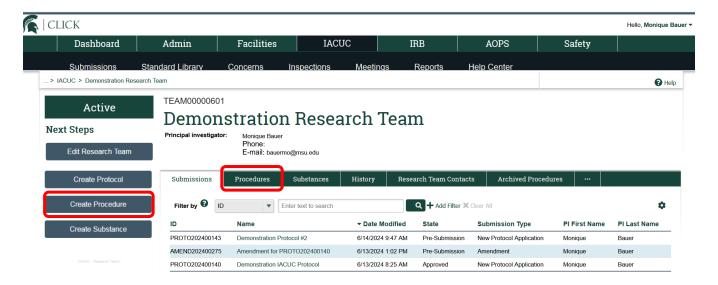
### 3. Procedures.

Procedures are defined by procedure type and species. There are different procedure types available to describe which type of research task is being conducted.

To create procedures, begin at your Research Team workspace. The Procedure tab is located along the center of the page. This tab houses Standard Procedures already approved by the IACUC. Standard Procedures may be selected for your team's research at any time. Once team procedures have been created, these will be available exclusively to your research team.

To create team procedures, select the button along the left side, *Create Procedure*.





After selecting the **Create Procedure** button on the Research Team workspace, the first procedure page opens; the following information is required:

- First, name the procedure in Question 1; it is recommended to come up with a naming convention for your team procedures to ensure they are easily organized and located in searches.
- Select the procedure type based on the task to accomplish in Question 2; selection of the different
  procedure types define which questions are asked on the second page of the procedure type. There are
  19 procedure types that cover different research tasks. If there is question regarding which procedure
  type to use, please contact the IACUC office.
- Choose the species in Question 3.
- Once the page is complete, select the *Continue* button.



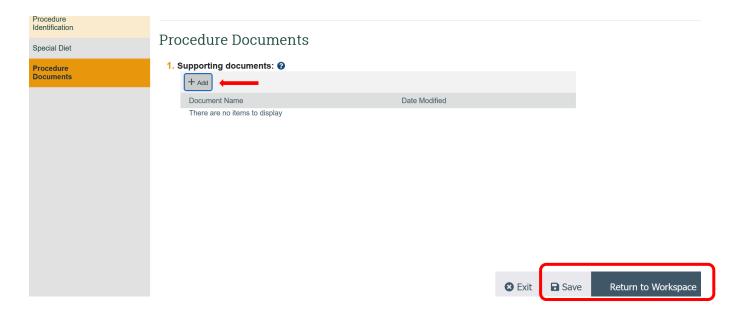




The procedure type selected in Question 2 will dictate which questions appear on the second procedure page. Required questions (\*) must be answered on the second page and then the *Continue* button is selected.

If there are any supporting documents or other documentation, please attach under Question 1 by selecting the *Add* button. Select the *Save* button to complete the procedure.



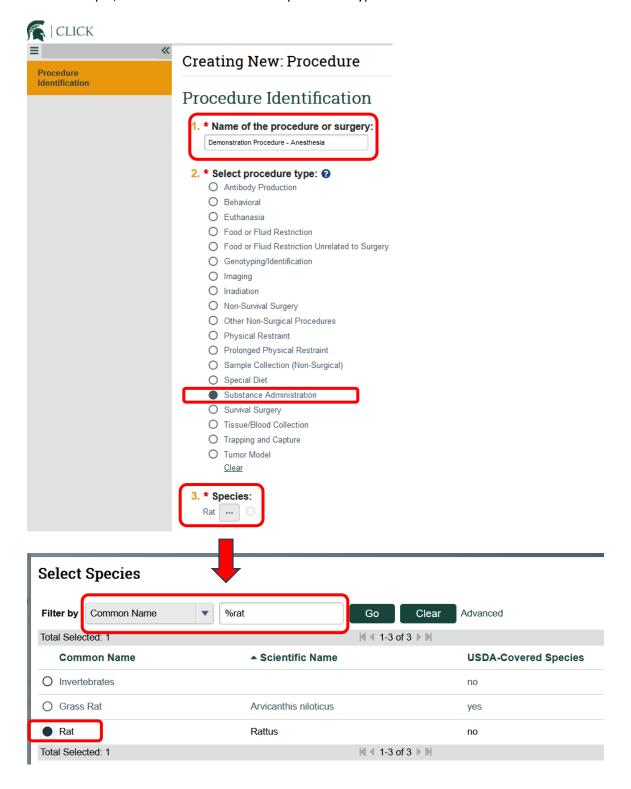


The procedure is now a team procedure available to your research team and ready for incorporation into an experiment.

Prior to beginning a protocol, it is recommended to review the standard library for already created procedures and create any team specific procedures. In addition, it is recommended, at a minimum, to identify a standard procedure or to develop a team procedure for Euthanasia and Substance Administration, Anesthesia for each species used on the protocol.



As an example, a Substance Administration procedure type for rats is demonstrated below.



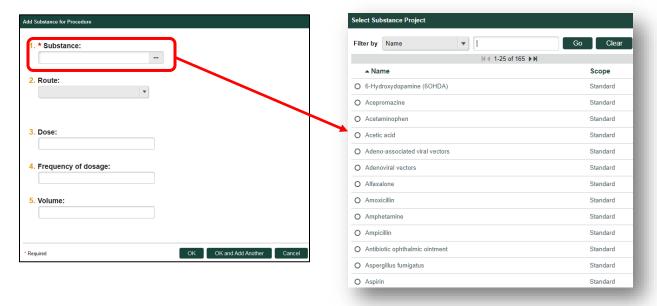


After selecting the *Continue* button on the first page, the second page of the procedure requests information regarding the details of the substance route, dose, frequency, and volume.

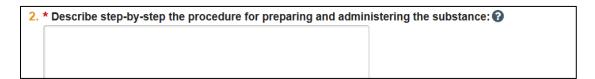
For Question 1, select the Add button to add a substance.



• A slide-in window appears and a standard or team substance may be selected. Then additional details provided within the slide-in window questions. More than one substance may be added depending on the type of research being conducted.



• For Question 2, describe the process for preparing and administering the substance.





Question 3 requires additional justification if the substances are not of pharmaceutical grade.

3. * Are all substances being administered in this procedure of pharmaceutical grade?				
O Yes O No Cl	<u>lear</u>			

• Question 4 defines whether the procedure causes any more than momentary pain and distress. Once all required fields have been entered, select the *Continue* button.

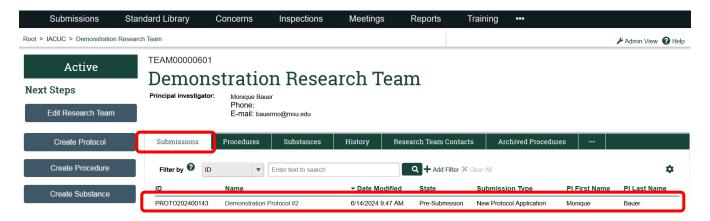
4. * Will administering this procedure cause any more than momentary pain and distress?			
O Yes	O No	Clear	

After all questions are answered on this page, selection of the *Continue* button brings you to the supporting documents page where attachments can be added. Select the *Save* and *Return to Workspace* buttons to complete the procedure. This procedure is now a team procedure.

Demonstration Procedure - Anesthesia	Actions ▼	6/14/2024 12:53 PM	Active 1	Rat	Substance Administration	Tea	m

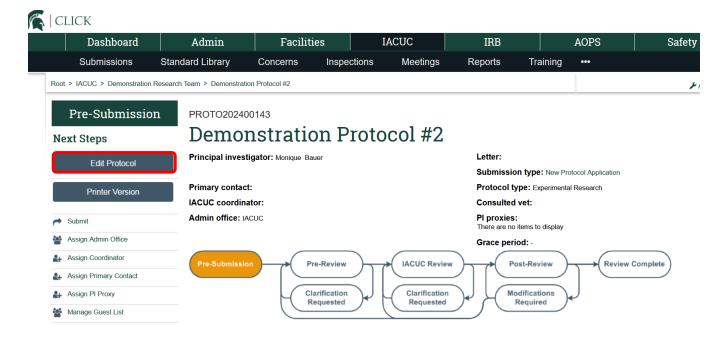
#### 4. Experiments.

Experiments are a critical element of the protocol, are species-driven, and generally consist of one or more procedures. To build an experiment, begin at your Research Team workspace and select a protocol from the *Submissions* tab. **Note:** If a protocol has not been created for the research team yet, select the Create Protocol button. Please see additional support materials for assistance in creating a new protocol: <a href="https://orrs.msu.edu/click/index.html">https://orrs.msu.edu/click/index.html</a>.

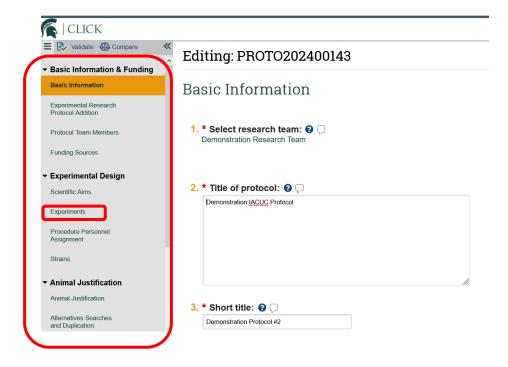




Select *Edit Protocol* from the protocol workspace.



The first page of the protocol is the Basic Information page. The *File Menu* along the left side of the page displays a list of all the protocol pages. This menu allows the user to easily navigate throughout the protocol pages. Within the list, select *Experiments* to go to this protocol page.





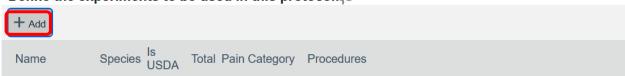
On the Experiments page, select the **Add** button located under Question 1. This displays a slide-in window where the details of each experiment are provided.

# Experiments

1 Important! Make sure all procedures required for your protocol exist in the IACUC system before you add experiments.

If the procedure is not yet created: Create Procedure

1. \* Define the experiments to be used in this protocol:



Next, answer all required questions on the experiment slide-in window:

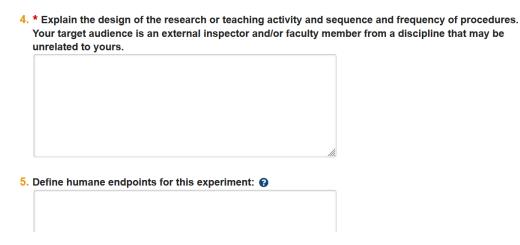
- For Question 1, it is recommended to add a numbering scheme to the experiments to better arrange their display in the order you prefer; this organization will also assist the IACUC reviewers.
- Question 2, enter an experiment name.
- Question 3 defines which species the experiment encompasses. If your research is wildlife, please search for 'wildlife' and select the appropriate option. Select the ellipsis button to choose a species.

### Add Experiment

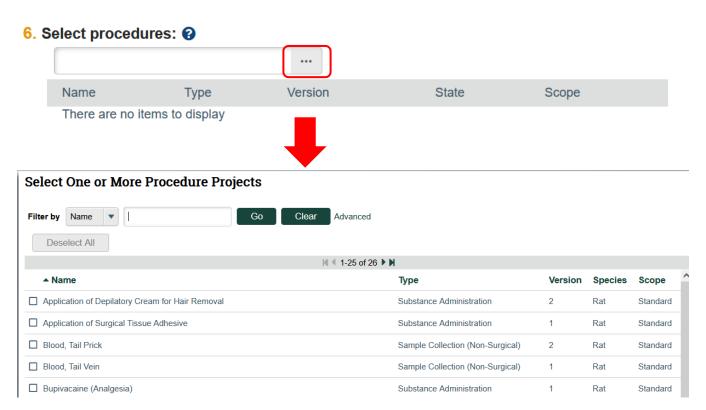
1. 1	Display order:	
2.	* Experiment name:	
3.	* Species: 😯	



 Question 4 provides the detail of the research or teaching activity and the sequence and frequency of procedures involved.



Question 6 defines which procedures will be part of the experimental activity. Select the ellipsis button
and choose one or multiple procedures. Note the selection of a substance administration procedure for a
test substance completes the connection of the system's building blocks – the substance was created,
pulled into a procedure, and then the procedure was selected for an experiment within a protocol.





- The total numerical value of animals in Question 7 and Question 8 must match. Please note if a non-USDA species is used, select category C for Question 8.
- Question 9 asks for scientific justification of the number of animals required for the experimental activity.

7.	* Total number of animals used in th	is experiment:
	100	
8. 1	Number of animals by category (if an	nimal is non-USDA, list all animals in category C):
ſ	<b>B</b> : 0	
	C: 100	
	<b>D</b> : 0	
	<b>E</b> : 0	
0.4	* Provide ecientific justification for h	any you determined the number of animals needed for this presedure!
	experiment/activity.	now you determined the number of animals needed for this procedure/
F	For guidance see: Scientific Justification	on for the Number of Animals to be used in Research, Teaching or Testing (RD001)
• Quest	stion 10 requests information on	whether there are any potential adverse consequences
	will result from this experiment.	
	stion 11 captures whether unrelie tional justification is required.	eved pain and distress occurs within this activity. If Yes,
	oran jaconnoanon io roquir car	
10. * Are t	there any potential adverse o	consequences that will result from this experiment?
O Yes	s O No <u>Clear</u>	
		unrelieved pain and distress?
O Yes	s O No <u>Clear</u>	
• For C	Question 12 select the location	where animals will be used – this is where the experimental
	•	ting wildlife field studies, search for 'wildlife' in the building lookup

and the room number will be listed as 'not applicable' and select this option.



12. \* Identify where live animals will be used outside of animal housing facilities.

If animals will be used within an existing housing facility, farm or CAR facility, please select Not Applicable.

There are no items to display



- If there are any husbandry exceptions for this experiment, select Yes for Question 13 and select Add for
  Question 14. Examples of husbandry exceptions include anything that differs from a conventional housing
  environment such as temperature or humidity, air quality or ventilation, or noise.
- 13. \* Are there any husbandry exceptions for this experiment?

  Exceptions are defined as anything that differs from a conventional housing environment. 

  Yes No Clear

14. If yes, identify husbandry exceptions:



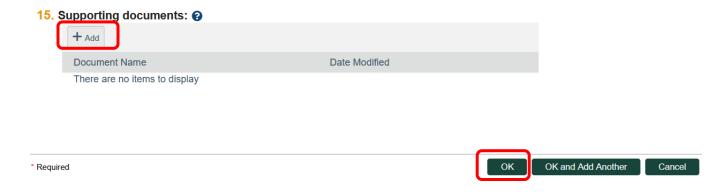
### **Add Husbandry Exception**

### 1. \* Exception Type:

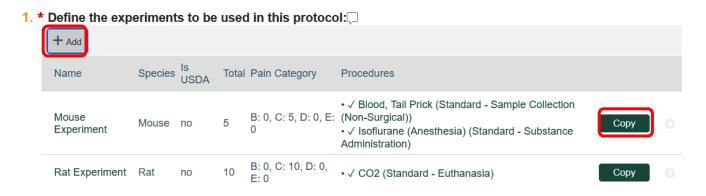
- ☐ Temperature / Humidity
- ☐ Sanitation / Waste Disposal
- ☐ Air Quality / Ventilation
- ☐ Space Requirements
- ☐ Pest Control
- ☐ Water
- ☐ Feed
- Noise
- Lighting
- ☐ Bedding☐ Acclimation
- Other



- If there are any supporting documents, please attach under Question 15 by selecting the Add button.
- After all questions have been answered, select the Ok button at the bottom of the page.



Once back on the Experiment page, to add another experiment, select the **Add** button. Another option is to **Copy** the experiment if it is similar to the previously created experiment and then update accordingly.



The experiments created define the research activities completed by a researcher in detail and are constructed using the substance and procedure building blocks.

For further support within the Click IACUC module, please contact the IACUC Administrative Office (iacuc@msu.edu, 517-432-8103) or the Click Help Desk (clickhelpdesk@msu.edu, 517-355-2000).