

## In this presentation

We've covered why compliance matters, what is a Controlled Substance (CS)/Dangerous Drug (DD), ordering/receiving, and conducting an inventory in our previous webinars.

In this presentation, we will discuss recent changes to the Emory forms, as a result of lab feedback, QA/QI Reviews, and IACUC tag-alongs.

**Research Administration** 





## Thank you

ORIC has visited and talked with over 50 labs to get a better understanding of the PI/labs needs and how forms can be amended to make life easier for each Registrant.

ORIC wants to extend a special thank you to a few of the PI/labs for providing invaluable input.

Without your input we would not be able to serve you better.





Research Compliance and Regulatory Affairs
Research Administration

## Federal and State Regulations

All the input we've received has been very important. Our office is here to ensure each Registrant is compliant with the federal and state regulations which require that each Registrant document the receiving, manufacturing, dispensing/administering, and destruction of controlled substances and dangerous drugs.

The forms were updated to assist each registrant in tracking the drug usage so that complete and accurate records are maintained.

While the Emory forms are not required, the information in them is required by the federal and state government. The Registrant is responsible for ensuring 100% accountability of the controlled drugs they have acquired.

## What does drug accountability look like?

#### Researcher X

	Drug In				Drug Out			
Drug Name & concentration	Initial Inventory (a)	Drug Received (b)	Total (c) (a+b=c)	Closing Inventory (d)	Dispensed/Destroyed (e)	Total (f) (d+e=f)	Difference (g) = (f-c)	
Ketamine 10mg/ml	100ml	500ml	600ml	200ml	400ml	600ml	0ml	
Ketamine .05mg/ml	0ml	0ml	0ml	0ml	500ml	500ml	-500ml	
Ketamine/Xylazine/ Saline 1mg/2mg/mg	50ml	1000ml	1050ml	300ml	500ml	800ml	-250ml	
Cocaine raw powder	10g	0g	10g	15g	Og	15g	+5g	

## Form Updates

With the regulations in mind, the ORIC team updated the forms to make them easier to use. Emory Forms are not required however, the templates incorporate all of the required elements from the applicable regulations. Any format used must meet the requirements of all pertinent regulations.

#### Three of the biggest updates are:

- 1. A new form for each unique bottle ID is no longer needed. Form 7, 11, C, D, and F may be used continuously if the drug name and strength/concentration remains the same.
- 2. The destruction or disposition of drug should not be documented on the dispensing form. ORIC created separate forms 4 and I for that purpose.
- 3. The inventory form has been updated according to regulations and updated in a way that helps to remind each Registrant that the expired and dilutions need to be counted as part as the biennial inventory. It's also required by law to note whether the inventory was done before or after business (BOB or COB).



## Why?

Federal and State Regulations require you to be 100% accountable for the drugs you receive, manufacture, dispense/administer, and dispose of.

Did you know that every time you dilute a drug you received from your Supplier that you are "manufacturing" a new drug? You are responsible for knowing how much of the controlled drugs is in each solution. You are also responsible for inventorying the dilutions.

Disposition was removed from the dispensing forms so it's not counted as both a dispensation and a destruction. Doing so would affect the drug accountability.

## New Dangerous Drug Form Updates

- Form A Dangerous Drug Access Log (new updates help track, training and key control)
- Form B Dangerous Drug Receipt Log (updated to reflect regulation requirements in lieu of invoice/packing slip documentation)
- Form C Dangerous Drug Use Form (Updated to be used continually as long as the drug name and concentration/strength stay the same. An expiration date column was added to help ensure that registrant is not dispensing expired drugs. Disposition was removed)
- Form D Isoflurane Use Form (Updated to be used continually, track expiration dates, disposition removed)
- Form E Dangerous Drug Discrepancy and Incident Form (updated to add an incident reporting format to establish good documentation practices)
- Form F Dilution Log (Updated to be used continually as long as the drug name and concentration/strength stay the same. An expiration date column was added to help ensure that registrant is not dispensing expired drugs. Disposition was removed)
- Form G & H Meloxicam Stock Bottle and Dilution Form was developed to help Registrant track the number of punctures and expiration date.
- Form I Dangerous Drug Destruction Log (New Form was created to separate and accurately document the destruction of the drug on appropriate form. Dispositions should no longer be documented on Use Forms C, D, F)

#### Sample Form C – DANGEROUS DRUG USE FORM

Note: This form is to be used to track the usage of all dangerous drug stock bottles.

Box 1: Registrant Information					
Registrant's Name: Joe	GBP#:	Registered Address: 123 Main Street, Room # C5100, Atlanta, GA, 30325			
Smith	PHRS1234567				

Box 2: Stock Bottle Information				
Name of Substance:	Concentration/Strength: 100%			
Isoflurane				

Note: Record the total quantity of the substance to the nearest metric unit weight or the total number of units. The log balance must always match the physical balance of dangerous drug. Any discrepancies (overfill or underfill), or other circumstances that indicate significant loss or theft of dangerous drug must be promptly reported using Form E. DO NOT RECORD DISPOSITION/DESTRUCTION OF DRUG ON THIS FORM. USE FORM I FOR DISPOSITION/DESTRUCTION

Box 3: Current Dangerous Drug Use Log			Drug Name and Concentration/Strength: Isoflurane 100%				
Date	Unique Bottle ID	Expiration Date	Starting Volume/Quantity	Amount Used	Balance Remaining	Printed Name of Person who used the drug	Notes/Comments (optional)
02/11/23	ISO021123	06/30/26	250 ml	10ml	240ml	Joe Smith	Euthanasia
02/15/23	ISO021123	06/30/26	240ml	20ml	220ml	JoAnn Taylor	Euthanasia
02/19/23	ISO021123	06/30/26	220ml	10ml	210ml	Joe Smith	Euthanasia
02/28/23	ISO021123	06/30/26	210ml	30ml	180ml	Joe Smith	Euthanasia
03/05/23	ISO021123	06/30/26	180ml	50ml	130ml	Joe Smith	Euthanasia
03/10/23	ISO021123	06/30/26	130ml	40ml	110ml	JoAnn Taylor	Euthanasia
03/11/23	ISO021123	06/30/26	110ml	50ml	60ml	JoAnn Taylor	Euthanasia
03/15/23	ISO021123	06/30/26	60ml	30ml	30ml	Joe Smith	Euthanasia
03/17/23	ISO021123	06/30/26	30ml	30ml	Oml	Joe Smith	Euthanasia
~~~~~~	~~~~~~~~~	Ne	w Bottle~~~~				
03/18/23	ISO031823	04/01/23	250ml	150ml	100ml	Joe Smith	Protocol #456
03/30/23	ISO031823	04/01/23	100ml	80ml	20ml	Joe Smith	Protocol #456, remainder sent to EHSO

#### Sample Form F: Dangerous Drug Dilution and Use Form

Note: This form may only be used if the drug name, concentration, and total volume, created remains the same. A new form must be used if the concentration changes.

Note: This form may only be used if the drug name, concentration, and total volume, created remains the same. A new form must be used if the concentration changes.								
Box 1: Registrant Information	Box 1: Registrant Information							
Registrant's Name: Joe Smith				Registered Address: 123 Main Street, Room #4567, Atlanta, GA, 30325				
Box 2: Calculating Concentration	Box 2: Calculating Concentrations from Stock Bottles							
(2a)	(2b)	(2c)		(2d)	(2d)			
DD Drug Name : Xylazine	Concentration (C): 1.5mg/ml	Volume Added (V): 2ml	,	Total Volume	Conversion Factor (CF)* (CF=C x V/TV): (1.5mg x 2ml)/10ml = 0.3mg/ml			
Drug Name: (diluent) Bacteriostatic Saline	Concentration (C): 1	Volume Added (V): 8 ml		(TV): (	Conversion Factor (CF)*: (CF= V/TV): (8ml/10ml) = 0.8ml			
Drug #3 Name(if applicable): $N/A$	Concentration (C): N/A	Volume Added (V):	N/A	10ml	Conversion Factor (CF)* N/A			
Drug #4 Name(if applicable): $\mathcal{N}/\mathcal{A}$	Concentration (C): N/A	Volume Added (V):	N/A		Conversion Factor (CF)* N/A			

Box 3: DD Dilution Working Bottle Information and Label	Working Bottle Unique ID: Varied
Mixture Name: Xylazine /Saline	Working Bottle Expiration Date*: Varied
Concentration of Working Dilution* (mg/ml): 0.3 mg/mb	Working Bottle 1st Puncture Date: Varied
Total Volume (TV): 10ml	Date mixed and Initials of Person Mixing: Varied
Fill in this side of Box 3. This info must be on the working bottle	This side of Box 3 varies per bottle but must be on the working bottle

Box 4: Drug U	Box 4: Drug Usage for Working Bottle				Drug Name and Concentration: Xylazine/Saline 0.3mg/ml			
Date	Unique Bottle ID	Unique Bottle ID Expiration Date	Starting volume	Volume removed			Reason for Use	
04/01/23	XYSA040123	06/01/23	10ml	1ml	9ml	DB	Protocol 21345	
04/03/23	XYSA040123	06/01/23	9ml	2ml	7ml	JS	Protocol 21345	
04/10/23	XYSA040123	06/01/23	7ml	1ml	6ml	JS	Protocol 21345	
04/15/23	XYSA040123	06/01/23	6ml	1ml	5ml	DB	Protocol 21345	
04/16/23	XYSA040123	06/01/23	5ml	2ml	3ml	DB	Protocol 21345	

#### Sample Form I: Dangerous Drug Destruction Log

Box 1: Registrant Information					
Registrant's Name: John Smith	GBP #: RS1234567	Registered Address: 123 Main Street, Room 5100C, Atlanta, GA, 30325			

Box 2: Destruction Information	
Method of Destruction $\mathcal{E} \mathcal{H} \mathcal{S} \mathcal{O}$	Date of Destruction: 02/11/23

Box 3: Dangerous Drug Destruction Log								
Date of Destruction	Name of Dangerous Drug	Concentration/Strength	Total Volume/Quantity to be destroyed	Drug Form	Unique Bottle ID			
02/11/23	Isoflurane	100	17ml	líquíd	ISO001			
02/11/23	Meloxícam	5mg/ml	20ml	líquíd	MEL0010			
02/11/23	Amoxicillin	200mg/5ml	10ml	powder	AMOX003			
02/11/23	Tamoxífen Citrate	98%	2g	powder	TMX0013			
02/11/23	Lídocaine 1%	500mg/50ml	7ml	líquíd	LID0001			
02/11/23	Isoflurane	100	125ml	líquíd	ISO003			

#### **New Controlled Substance Forms**

- Form 2 Controlled Substance Access Log (new updates help track training, key control, and background checks)
- Form 3 Emory University Employee and Agent Screening Statement (Updated to track the background check of employees/students who have access to controlled substances)
- Form 4 Controlled Substance Destruction Log (New Form designed to properly track the documentation of destructions)
- Form 5 Controlled Substance Discrepancy and Incident Report (updated to add an incident reporting format to establish good documentation practices)
- Form 6 Controlled Substance Inventory (Updated to help Registrant properly document BOB/COB, expired drugs, dilutions)
- Form 7 Controlled Substance Use Log (Updated to be used continually as long as the drug name and concentration/strength stay the same. An expiration date column was added to help ensure that registrant is not dispensing expired drugs. Disposition was removed)
- Form 8 Order/Receipt Log for Schedule I & II Controlled Substances (updated to reflect regulation requirements in lieu of invoice/packing slip documentation & 222)
- Form 9 Receipt Log for Schedule III-V Controlled Substances (updated to reflect regulation requirements in lieu of invoice/packing slip documentation)
- Form 11 Controlled Substance Dilution Log (Updated to be used continually as long as the drug name and concentration/strength stay the same. An expiration date column was added to help ensure that registrant is not dispensing expired drugs. Disposition was removed)
- Form 14 Internal Transfer Form (Updated to align with new Emory policy 7.25. Internal transfers are now allowed but must be approved by ORIC first)

## Sample Form 6B: Controlled Substances Inventory Continued Annual Inventory \_\_\_\_\_ Biennial Inventory \_\_\_\_\_ : Schedule III-V

Note: A Biennial inventory must be conducted once within every two years of the date of the Initial Inventory. An annual inventory is recommended. A separate inventory sheet for Schedule I & II and Schedule III - V Controlled Substances must be maintained. Stock and Working Bottles, and Expired Containers must all be counted.

Box 1: Registrant Information						
Registrant's Name: Joe	DEA #: RS1234567	Registered Address: 123 \( \lambda \)	Jain Street, Atlanta, GA, 30325			
Smith						
Date of Inventory: 05/01/23	BOB COB* (circle one)	Name Persons conducting Inventory	Employee #1: Joe Smith	Employee #2: Joann Taylor		

Box 2: Co	Box 2: Complete Physical Inventory for ALL Schedule III – V Controlled Substance on hand at the time of inventory								
Line No.	Name of Substance	Concentration/ Strength	Initial Volume/ Quantity of Container	Number of Containers	Total Quantity/Volume on Hand per Concentration/Strength	Stock/Working	Active or Expired		
1	Ketamine	100 mg/ml	10ml	3	30ml	stock	active		
2	Ketamine	100 mg/ml	10ml	1	10ml	stock	expired		
3	Ketamine/Xylazine/Saline	20mg/30mg/ ml	10ml	1	1.5ml	working	active		
4	Testosterone	10mg	5g	1	3g	stock	active		
5									
6				7					
7									
8									
9									
10									
11									
12									
13									
14									
15									

#### Sample Form 7: Controlled Substance Use Form

SCHEDULE I – II:	*	or SCHEDULE III – V:
	7 4 5	

Note: This form is to be used to track the usage of all Schedule I – V controlled substance stock bottles. Select the drug schedule above.

Box 1: Registrant Information						
Registrant's Name: Joe	DEA #: RS1234567	Registered Address: 123 Main Street, Room 123, Atlanta, GA, 30325				
Smith						

Box 2: Stock Bottle Information	
	Concentration/Strength: 390mg/ml
Fatal Plus	

Note: Record the total quantity of the substance to the nearest metric unit weight or the total number of units. The log balance must always match the physical balance of Controlled Substances. Any log discrepancies, or other circumstances that indicate significant loss or theft of controlled substance must be promptly reported using Form 5.

Box 3: Controlled Substance Use Log				Drug Name/Concentration/Strength: Fatal Plus 390mg/ml				
Date	Unique Bottle ID	•		Amount Used	Balance Remaining	Printed Name of Person who Dispensed/Administered Drug	Reason for Use (optional)	
02/11/23	FP001	06/30/26	250 ml	10ml	240ml	Joe Smith	Euthanasía	
02/15/23	FP001	06/30/26	240ml	20ml	220ml	JoAnn Taylor	Euthanasía	
02/19/23	FP001	06/30/26	220ml	10ml	210ml	Joe Smith	Dilution FPSA002	
02/28/23	FP001	06/30/26	210ml	30ml	180ml	Joe Smith	Euthanasía	
03/05/23	FP001	06/30/26	180ml	50ml	130ml	Joe Smith	Euthanasía	
		New B	ottle Started (	ber PI/pro	tocol chan	ge)		
03/10/23	FP002	06/30/26	250ml	40ml	210ml	JoAnn Taylor	Dr. Claus	
03/11/23	FP002	06/30/26	210ml	10ml	200ml	JoAnn Taylor	Protocol 12345677	
		Retur	nto-Bottle FP0	01				
03/15/23	FP001	06/30/26	130ml	30ml	100ml	Joe Smith	Euthanasia	
03/17/23	FP001	06/30/26	100ml	30ml	70ml	Joe Smith	Euthanasía	
03/18/23	FP001	06/30/26	70ml	50ml	20ml	Joe Smith	Euthanasía	

#### Sample Form 11: Controlled Substance Formulation/Dilution Use

Note: This form may only be used if the drug name, concentration, and total volume, created remains the same. A new form must be used if the concentration changes.

Box 1: Registrant Information								
Registrant's Name: John Smith	<b>DEA #:</b> RS1234567	Registered Address: 123 Main Street, Room #4567, Atlanta, GA, 30325						
Box 2: Calculating Concentrations from Stock Bottles								
(2a) (2b) (2c) (2d) (2e)								
C/S Drug #1 name: ketamine	Concentration	Volume Added (V): 2ml	Total	Conversion Factor (CF)* (CF=C x V/TV): 100 mgx 2 ml/10 ml = 20				
	(C): 100mg/ml		Volume					
Drug #2 Name:	Concentration	Volume Added (V): 3ml	(TV):	Conversion Factor (CF)*: (CF=C x V/TV): 100mg x 3ml/10ml= 30				
xylazine	(C): 100mg/ml							
Drug #3 Name(if applicable):	Concentration	Volume Added (V): 5ml	10ml	Conversion Factor (CF)* (CF=C x V/TV): 1 × 5ml/10ml≈ 0.5				
bacteriostatic saline	(C): n/a = 1							
Drug #4 Name(if applicable):	Concentration	Volume Added (V):		Conversion Factor (CF)* (CF=C x V/TV): N/A				
N/A	(C): N/A	N/A						

Box 3: Working Bottle Information and Label	Working Bottle Unique ID*: varied
Drug Name (Box 2): Ketamine/Xylazine/Saline	Working Bottle Expiration Date*: varied
Concentration (Box 2): 20mg/30mg/0.5ml per mb	Working Bottle 1st Puncture Date: Varied
Total Volume Created : $10mb$	Date Mixed and Initials of person Mixing: Varied
Fill in this side of Box 3. This info must be on the working bottle	This side of Box 3 varies per bottle but must be on the working bottle

Box 4: Drug Usage for Working Bottle				Drug Name and Concentration: Ketamine/Xylazine/Saline 20mg/30mg/0.5ml per ml				
Date	Unique Bottle ID	Unique Bottle ID Expiration Date	Starting Volume (ml)	Volume removed (ml)	Total Volume Remaining (TVR) (ml)	Initials of person dispensing/ administering	Reason for Use (optional)	
01/01/24	KXS010124	03/01/24	10ml	1ml	9ml	DB	Protocol #12456	
01/05/24	KXS010124	03/01/24	9ml	5ml	4ml	DB	Protocol #12456	
01/06/24	KXS010124	03/01/24	4ml	3ml	1ml	JS	Protocol #12456	
		····New Bot	tle created					

#### Sample Form 4: Schedule III-V Controlled Substance Destruction Log

Box 1: Registrant Information

Registrant's Name:

John Smith

DEA #: Registered Address: 123 Main Street, Room 123, Atlanta, GA, 30325

R\$1234567

Box 2: Reverse Distributor DEA Registrant Information

Registrant's Name:
Reverse Distribution LLC

DEA #:
DR4758590

Registered Address: 45738 Destruction Way, Atlanta, GA, 30325

Box 3: Schedule	III-V Destruction Log				
Date of Destruction	Name of Controlled Substance	Concentration/Strength	Total Volume/Quantity to be destroyed	Drug Form	Unique Bottle ID
02/11/23	Buprenorphine HCL	0.3mg/ml	1ml	líquíd	ВИР0010
02/11/23	Ketamine HCL	100mg/ml	2ml	líquíd	KET0003
02/11/23	Testosterone Cypionate USP	100	1 grams	powder	TEST001
02/11/23	Euthasol	390mg	5ml	líquíd	EUTH005
02/11/23	Lorazepam	1mg	3m	tablets	LORO009
02/11/23	Ketamine HCL	100mg/ml	5ml	líquíd	KET0004
02/11/23	Buprenorphine HCL	0.3mg/ml	0.5ml	líquíd	ВИР0011
02/11/23	Ketamine HCL	100mg/ml	0.5ml	líquíd	KET0005
02/11/23	Buprenorphine HCL	0.3mg/ml	2ml	líquíd	ВИР0012
02/11/23	Euthasol	390mg	3ml	líquíd	ЕИТНОО6

# Questions?





Research Compliance and Regulatory Affairs Research Administration