

# STRATEGY FOR IMPROVING STROKE TREATMENT RESPONSE

# (SISTER) TRIAL

Pharmacy Manual

**INVESTIGATOR-SPONSORED STUDY PROPOSAL** 

IND Number: 122550 Protocol # TS23/DS9231-U202

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### Abbreviations and Definitions

CPS	Clinical Performance Site
IP	Investigational product
MUSC	Medical University of South Carolina
NCC	National Coordinating Center
NCC Central Pharmacy	StrokeNet National Coordinating Center Central Pharmacy
NDMC	National Data Management Center at MUSC
NS	Normal Saline (sodium chloride 0.9% in water)
РМ	Project Manager
TERF	Temperature Excursion Report Form
TS	Translational Sciences, Inc
WebDCU™	Web based Clinical Trial Management System (CTMS) containing a web-based study drug shipping and management component, which allows for study drug management at the CPS.
MAR	Medication Administration Record

## **Contact Information**

SISTER Primary Study Contact List								
Title and Responsibility	Name	Contact Information	When to Contact					
StrokeNet Central Pharmacist	Noor Sabagha R.PH, MPH	SISTERtrialRX@ucmail.uc.edu 513-584-3166	Pharmaceutical questions/issues, study drug shipments, handling, and maintenance.					
StrokeNet Central Pharmacist	Christian Unger PharmD	SISTERtrialRX@ucmail.uc.edu 513-584-3166	Pharmaceutical questions/issues, study drug shipments, handling, and maintenance.					
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StrokeNet Central Pharmacy Technician	Carla Jones CPhT	SISTERtrialRX@ucmail.uc.edu 513-584-3166	Study drug shipments, handling, maintenance, and pharmacy regulatory documents.					
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Principal Investigator	Guy Reed, MD, MS	guyreed@arizona.edu	Please route all questions to Protocol or Contact Pl					
NCC Project Manager	Pam Plummer, MSN, RN, CCRC	plummepa@ucmail.uc.edu 513-885-2437	Study related clinical or trial operations questions, regulatory and cIRB submissions, site payments.					
WebDCU™ Data Manager	Katie Stever, MPH	steverca@musc.edu 843-792-2077	WebDCU™ interfacing and troubleshooting					
WebDCU™ Data Manager	Riley Luckmann	luckmann@musc.edu	WebDCU™ interfacing and troubleshooting					
Site Monitoring Manager	Aaron Perlmutter, MPH, MSW	perlmutt@musc.edu 843-792-2784	Study related monitoring management questions.					

### Introduction and General Study Drug Information

SISTER is a Phase-2, prospective, randomized, placebo-controlled, blinded, dose finding trial that aims to determine the safety and preliminary efficacy of TS23, a monoclonal antibody against the alpha-2 antiplasmin (a2-AP), in acute ischemic stroke.

### **Study Drug Formulation**

The IP or study drug, TS23, is an IgG2 monoclonal antibody that inactivates human  $\alpha$ 2-antiplasmin, a2AP (also known as serpin f2 (Sf2),  $\alpha$ 2-plasmin inhibitor, plasmin inhibitor). TS23 prevents the inhibition of plasmin by a2AP and has been shown to significantly enhance dissolution of thromboemboli without causing bleeding in pre-clinical experimental studies. It was constructed by chimerizing the variable regions of a mouse monoclonal antibody against a2AP with a human IgG2 constant region. It is produced in Chinese hamster ovary (CHO) cells with a molecular mass of 148 kDa.

TS23 is formulated at a concentration of 10 mg/mL in a buffer consisting of 10 mM sodium phosphate, 50 mM sodium chloride and 5% sorbitol at pH 6.0; it is a clear mostly colorless solution. For purposes of this pharmacy manual, the IP or "study drug" refers to TS23. The expiration date for the IP (TS23) will be provided and updated by Translational Sciences, Inc. based on stability testing.

### Study Drug Supply, Packaging, and Labeling

#### Supply

Translational Sciences, Inc. has and will be responsible for manufacturing TS23 according to cGMP. TS23 study drug is provided in 10 ml vials at a concentration of 10 mg/ml. The manufactured drug substance is shipped to the University of Iowa pharmacy for packaging and labeling. Packaged and labeled vials are then shipped to the StrokeNet National Coordinating Center Central Pharmacy (NCC Central Pharmacy) located at the University of Cincinnati. NCC Central Pharmacy will prepare and label study drug boxes, which will then be distributed to the Clinical Performance Sites (CPSs). Translational Sciences will be responsible for manufacturing and supplying the study drug to accommodate a maximum of 300 study subjects.

CPSs Pharmacies to provide supplies:

- 1. IV extension set with 0.22-micron filter, Non DEHP
- 2. 250 ml NS infusion bag, Non DEHP (Used for placebo and TS23 compounding)

\* Note: Placebo will not be sent to sites by the StrokeNet Central Pharmacy. For preparation of placebo doses, sites will use a standard 250 ml NS infusion bag.

#### Packaging and Labeling

The study drug vials will be shipped in white boxes measuring approximately 5"x3"x2.5", with each box capable of holding 1-6 vials. Both the vials and boxes will have an open label that includes essential information such as product description, box/vial ID number, strength, lot number, storage conditions, and an Investigational New Drug (IND) caution statement.

#### Sample of Vial Label:





#### This box contains TS23 Solution for infusion 10mg/mL 10mL vial(s). Study drug must be stored under refrigeration at 2-8 °C (36-46 °F). Caution: New Drug - Limited by federal law to investigational use only. Use as directed per SISTER Protocol. Distributed by StrokeNet Central Pharmacy, UC Medical Science Bldg.

231 Albert Sabin Way Room G162, Cincinnati, OH 45267-0405

Lot #: 119010923 Expiration date is available at https://webdcu.musc.edu

### Study Drug Ordering, Shipping, and Receipt

#### **Shipping and Ordering**

CPSs must upload a valid institutional pharmacy license into WebDCU<sup>™</sup> before study drug can be shipped. The CPS pharmacy shipping address entered into WebDCU<sup>™</sup> must match the address on the institution's pharmacy license uploaded in WebDCU<sup>™</sup>. If the shipping address of the CPS pharmacy entered into WebDCU<sup>™</sup> does not match the address listed on the institution's pharmacy license, please email the NCC Central Pharmacy at <u>SISTERtrialRx@ucmail.uc.edu</u> stating the reason why they do not match.

Study drug boxes will be shipped in a 6L insulated shipper, with a USB temperature logger, cold packs, and enough insulation to maintain a temperature range of 2-8°C (36-46°F).

When a CPS is released to receive study drug, an initial study drug shipment will automatically be submitted to NCC Central Pharmacy by WebDCU<sup>™</sup>. The initial study drug shipment will contain a total of two study drug boxes.



All study drug shipment resupply requests will be automated by WebDCU<sup>™</sup> and will be triggered when a subject is randomized, or study drug is wasted/damaged/expired and <u>after</u> the CPS enters the information into WebDCU<sup>™</sup>. Initially, each site will receive a box containing 6 vials of active TS23. Replacement of used study drug will vary from 1-6 vials in the restocking shipment. As the trial progresses, the maximum number of boxes that a CPS is expected to keep in inventory will be adjusted based on the individual CPS dispensing volume and escalation phase.

The StrokeNet Central Pharmacy will receive an automated email notification from WebDCU<sup>™</sup> when a study drug request is triggered. The StrokeNet Central Pharmacy will refer to WebDCU<sup>™</sup> regarding the number of study drug boxes to be shipped to a CPS. StrokeNet Central Pharmacy will ship study drug boxes Monday through Wednesday for next day delivery Tuesday through Thursday. No shipments will take place for receipt on Friday, Saturday, Sunday, or holidays, except under extenuating circumstances.

A packing slip will be generated by WebDCU<sup>™</sup> and will be included with each shipment. The packing slip will contain the expiration/retest date of each individual study drug box and should be retained by the CPS; the expiration date will also be available in WebDCU<sup>™</sup> (Drug Tracking>Site Drug Removing). The study drug expiration date <u>will not</u> be printed on the study drug box label.

Web	SISTER Investigational Product Packing Slip									SISTER
Ship I Stro 231 Cin	Ship From:     Ship To:       StrokeNet Central Pharmacy     231 Albert Sabin Way, Room G162       Cincinnati, OH 45267 - 0405     WebDCU Test Site 2, Charleston, SC									
Packi Shipn	ng Slip No.: 1 nent Tracking	121.20240130 No.:								
SISTER Investigational Product Shipping Contents Site ID: 2348 Site Name: WebDCU Test Site 2, Charleston, SC										
No.	Drug Box ID	Drug Box Type	Vial 1	Vial 2	Vial 3	Vial 4	Vial 5	Vial 6	Expiration Date	Shipping Date
1	9951	6 vials	15139	17177	29042	44831	57322	21042	12/31/2025	1/30/2024
1         9951         6 viais         15139         1/1/7         29042         44831         57322         21042         12/31/2025         1/30/2024           Generated by WebDCU on 2/15/2024         10:12:30 AM EST         Back to previous page         Back to previous page										

### WebDCU<sup>™</sup> Study Drug Shipping Email

CPS will receive an automated email from WebDCU<sup>™</sup> when a study drug box is processed out of WebDCU<sup>™</sup> for shipment via UPS<sup>®</sup>.

### **UPS<sup>®</sup> Shipping Notification Email**

CPS will also receive an email from UPS<sup>®</sup> that includes a tracking number and any updates to shipment during transit for every shipment.

#### UPS Delivery Notification, Tracking Number 1Z576F708499106737

JPS <pkginfo@ups.com></pkginfo@ups.com>					
Io O StrokeNetcpharm (strokenet	tcpharm)			Thu 8/2	4/202
are problems with how this messag	e is displayed, click h	re to view it in a w	eb browser.		
linc					
ups					
$\sim$					
Hello, your package has be	een delivered.				
Delivery Date: Thursday, 08	/24/2023				
Delivery Time: 9:47 AM					
Left At: OFFICE					
Signed by: BRITTANY D					
JAMA OLSEN WEBDCU					
Tracking Number:	1Z576F7	08499106737			
	STROKEN	ET CENTRAL PH4	RMACY		
	231 ALBE	RT SABIN WAY	16		
Ship To:	ROOM GI	62	vu		
	CINCINN	ATI, OH 4526728	27		
an a	US				
Number of Packages:	1				
UPS Service:	UPS Next	Day Air®			
Package Weight:	4.5 LBS				

The CPS can track their shipments on the  $\mathsf{UPS}^{\texttt{®}}$  website

(https://www.ups.com/WebTracking/track?loc=en\_US). If a CPS has a group pharmacy email address, they would like to have receive their UPS shipment notifications, please email the StrokeNet Central Pharmacy at SISTERtrialRX@ucmail.uc.edu

### **Study Drug Receiving**

Upon arrival of the study drug shipment, the following steps should be taken as soon as possible within 48 hours of receipt:

- 1. Open the insulated shipper.
- 2. Locate the USB temperature logger.
- 3. Stop the USB temperature logger. Refer to "How to View and Retrieve the Temperature Curve from the USB Temperature Data Logger Instructions" section.
  - a. If the temperature logger shows the check mark symbol, the shipment has not been exposed to a temperature excursion during transit. Proceed to step 4.
  - b. If the temperature logger shows the X symbol, this shipment has been exposed to a temperature excursion during transit.
    - i. All temperature excursions must be reported to the Prime and NCC PM and StrokeNet Central Pharmacy <u>prior</u> to receiving drug into WebDCU™.
      - See the Temperature Excursion section for instructions on how to handle a temperature excursion.
    - ii. If the study drug boxes received in the shipment are deemed suitable for use, proceed to step 4.
    - iii. If the study drug received in the shipment are deemed NOT suitable for use, refer to the instructions for removing of study drug unfit for use section.
- 4. Carefully inspect the received study drug boxes ensuring all the boxes are received in good condition; and the materials received match the enclosed packing slip. The CPS <u>should retain</u> the packing slip for their records.
- 5. Promptly store the study drug boxes in the appropriate storage temperatures (2-8°C/36-46°F) in a location with continuous temperature monitoring.
  - a. Temperatures should be recorded daily on a temperature log with comments, if applicable. The monthly temperature logs should be filed into the pharmacy regulatory binder section.
  - b. See additional information regarding temperature excursions below on page 14.
- 6. Confirm receipt of all study drug boxes in WebDCU<sup>™</sup> within 2 days of receipt. To do this, click [Drug Tracking] then [Drug Box Site Receiving]. Click the blue number of the box you are receiving. Click [Edit Record] at the top right-hand corner, choose receiving status, and enter the drug box 3-digit verify code. Then click [Save Record] at the bottom of the page.

← C	https://webdcu.musc.edu/nett/ViewRecord.asp?theFormID=15088ttheRecordID=12	
		Aaron PERLMUTTER Sign Out
WebDCU	View: Drug B	ox Site Receiving
		List Record
No.	Item Description	Data Value
1	Site ID	2347
2	Site name	WebDCU Test Site 1, Charleston, SC
3	Drug box ID	3871
4	Drug box type	6 vials
5	Lot ID	1
6	Expiration date	31-Dec-2025
7	Date shipped	16-Jan-2024
8	Receiving status	O Pending
10	Date received	17-Jan-2024
11	Drug box 3-digit verify code	164
12	Receiving notes	
13	Receiving status reported by	Aaron PERLMUTTER
14	Receiving status reported on	16-Jan-2024 13:01
Last updated	by Aaron PERLMUTTER on 16-Jan-2024 13:01	

- 7. Each box in the shipment will need to be marked as received in WebDCU<sup>™</sup> individually.
  - a. Each box in the shipment will include a unique 3-digit verification code on the box label. This code will be entered into WebDCU<sup>™</sup> to confirm receipt and make the box available for use.
  - b. Only after a study drug box is confirmed as received by the CPS into WebDCU<sup>™</sup> will it be available for use.



 If study drug boxes are not marked as received in WebDCU<sup>™</sup> within 2 days of shipment, the CPS will receive an automatic email notification prompting them to receive the study drug boxes in WebDCU<sup>™</sup>.



#### To mark the study drug box as received in WebDCU™:

- 1. From the main menu page, click [Drug Tracking] and then [Drug Site Receiving]. A list of all study drug shipments that have been shipped to your site will appear.
  - a. <u>Note</u>: Use the 'Drug Site Receiving Pending' system filter located in the 'Page Actions' dropdown menu to filter for the shipments that need to be received.
- 2. Select the study drug box that needs to be received by clicking on the blue number link in the lefthand column.
- 3. Click on 'Edit Record' at the top of the screen.
- 4. Verify that the code on the box matches the drug box code listed in WebDCU<sup>™</sup>.
   a. If the box codes do not match, contact the study's Data Manger.
- 5. Edit the receiving status radio button to indicate 'Confirm received.'
- 6. Enter the date received, the 3-digit drug box verification code, and any receiving notes.
- 7. To finish, click 'Save Record'. You will need to repeat this process for each box received.

#### How to View and Retrieve the Temperature Curve from the USB Temperature Data Logger

The USB temperature data logger will be activated by the StrokeNet Central Pharmacy at the time the shipment is ready to be shipped from the StrokeNetC Central Pharmacy. The sun logo in the lop left corner of the LCD display indicates that the data logger is recording data.

- Once the data logger arrives at the CPS, the CPS will stop the data logger by pressing the red STOP button for 1-3 seconds until the stop sign logo appears in the top right corner of the LCD display. This indicates that the data logger has stopped recording data.
  - a. Note: The data logger may also be stopped by plugging it into a USB port of a computer at the CPS instead of pressing and holding the stop button.
- 2. Insert the data logger into a USB port of a computer at the CPS.
- 3. View the PDF temperature data log and review the data log for temperature excursions.
- 4. Print and file the temperature data log in the SISTER trial binder to be available during monitoring visits; if an excursion has occurred, please refer to "*In-Transit Temperature Excursion*" reporting instructions
- 5. Site can discard the USB data logger afterward.





Example Data Logger Report Note: all times will be in GMT(Greenwich Mean Time)

SENSITECH Q Used Tetrades							
SUPPLY CHAIN VISIBILITY	Serial #: GHZQN016F0						
Alarm Status							
ок 🗸							
Monitor Configuration	Monitor Read						
Start Up Delay: 1 hr Interval: 5 min	On : 08-NOV-2019 7:31:48 PM By : TempTale®Ultra						
	Note: All Times in GMT						
Recorded Data	Summary Data						
First Point: 05-NOV-2019 8:50:53 PM	Low Extreme: 2.9 °C @ 06-NOV-2019 5:35:53 AM						
Stop Time 06-NOV-2019 6:51:20 PM	High Extreme: 7.8 °C @ 05-NOV-2019 8:50:53 PM						
Trip Length: 200	Mean ± Sto Deviation: 3.0 °C ± 1.0 °C						
	Activation Energy: 83.144 kJ/mol						
Alarm Summarv	Alarm Data						
Alarm Alarms Settings Degree Minutes	Threshold (Type) Total Time Number of Events Triggered Status						
Ideal range >=2.0 °C <=8.0 °C	Unlimited 0 d 22 h 5 m 1						
Alarm 1 Over 8.0 °C 0.0 °C min	0 d 0 h 5 m (S/E) 0 d 0 h 0 m 0 OK						
Alarm 2 Under 2.0 °C 0.0 °C min	0 d 0 h 5 m (S/E) 0 d 0 h 0 m 0 OK						
TempTa	ale Ultra Serial : GHZQN016F0						
10.0							
9.1							
82 8.0							
7.3							
Q 8.4							
5.5							
en a							
4.6							
₽ 3.7							
28							
1.9 2.0							
1.0							
05-NOV-2019 05-NOV-2019 06-NOV-2019 08:50:53 PM 11:50:53 PM 02:50:53 AM	06-NOV-2019 06-NOV-2019 06-NOV-2019 06-NOV-2019 05:50:53 AM 08:50:53 AM 11:50:53 AM 02:50:53 PM						
	Primary: Ambient						

### Storage, Temperature Monitoring, and Temperature Excursions

#### Storage

Study drug must be stored in a secure location with limited access by authorized personnel only. Study drug must be stored at 2-8°C (36-46°F).

DO NOT FREEZE TS23Study drug must be protected from excessive exposure to light.

#### Temperature Monitoring

The CPS will maintain study drug storage temperature between 2-8°C (36-46°F) at all times.

All areas where study drug will be stored must be monitored <u>continuously</u> for temperature excursions and the temperature monitoring system, at a minimum, must provide a daily minimum and maximum temperature. It is preferable to have:

- Automated and continuous temperature monitoring with an alarm system in place.
- Temperature alarm systems linked to the monitoring system(s) with high and low alarm set points.
- A visual alarm and preferably an audible alarm (automatic telephone dial-up, SMS text warnings, or email messages to key personnel recommended).

A sample Study Drug Temperature Log is provided for the CPSs to use (Appendix A). The CPSs may use their own institution-specific or electronic study drug temperature monitoring log to document temperature readings if such temperature log is deemed equivalent. The original Study Drug Temperature Log must be filed in the master file at the CPS and available for monitoring visits.

#### **Temperature Excursions**

A temperature excursion occurs when in-transit or on-site drug storage temperatures fall outside of the acceptable temperature range.

- A temperature excursion must be reported if temperature falls below 2°C (36°F) and/or rises above 8°C (46°F).
- US Pharmacopeia (USP) rounding rules do apply for the temperature excursion (i.e., 35.5°F is rounded up to 36°F and 46.4°F is rounded down to 46°F). Both examples are not reportable excursions.
- Temperature excursions with the duration up to a maximum of 30 minutes and with no previous excursions, do not need to be reported.

Any temperature excursion affecting SISTER study drug must be reported immediately, at least within 48 hours of occurrence. Any study drug exposed to a temperature excursion should be quarantined in the designated storage temperature until StrokeNet pharmacy provide further instruction. Instruction on how to quarantine study drug in WebDCU<sup>™</sup> can be found in Appendix C.

#### In-Transit Temperature Excursion:

If study drug experiences a temperature excursion in-transit, the CPS should follow these steps:

- Do NOT receive study drug into WebDCU<sup>™</sup> inventory. Study drug boxes are available for use once they are marked as received in WebDCU<sup>™</sup>, thus, if not received into WebDCU<sup>™</sup>, subjects cannot be randomized to an affected box and enrollment is allowed to continue using the current inventory at the CPS.
  - a. If the shipment that experienced an in-transit temperature excursion is accidentally received in WebDCU<sup>™</sup>, please follow the directions for temperature excursion during on-site drug storage below and include the Temperature Data Log from the USB Temperature Logger.

- 2. The CPS must submit the SISTER Temperature Excursion Report Form (TERF) (Appendix B) and the Temperature Data Log from the USB Temperature Logger to the Prime PM and StrokeNet Central Pharmacy for review.
  - a. If the study drug box that is not yet in WebDCU<sup>™</sup> inventory is deemed usable after review, mark the study drug boxes received in WebDCU<sup>™</sup>.
  - b. If the study drug box that is not yet in inventory is deemed unusable after review, mark the study drug box as received in WebDCU<sup>™</sup> and then immediately mark the study drug box as destroyed in WebDCU<sup>™</sup> (Drug Tracking>Site Drug Removing) and enter in the comments "Temperature excursion per TERF." Removing Instructions can be found on Page 20.
    - i. Sites should destroy unusable study drug per institutional policy. Once the study drug is marked as destroyed in WebDCU<sup>™</sup>, an automatic email notification will be sent to the StrokeNet Central Pharmacy to resupply the site.

#### **On-Site Temperature Excursion / Daily Assessment:**

If a temperature excursion occurs during daily assessment of the storage area(s), the CPS should follow these steps:

- 1. Immediately quarantine all affected study drug at the appropriate storage temperature AND in WebDCU<sup>™</sup>, instructions in Appendix C.
- 2. The CPS must submit the SISTER Temperature Excursion Report Form (TERF) (Appendix B) and the Temperature Data Log from the USB Temperature Logger to the Prime PM and StrokeNet Central Pharmacy for review.
- 3. The excursion will be reviewed once the TERF and all pertinent temperature monitoring logs are received.
  - a. If the study drug box is deemed <u>usable</u> after review:
    - i. Remove study drug box from quarantine; the study drug(s) may be used for enrollment.
  - b. If study drug box is deemed <u>unusable</u> after review:
    - i. Mark the study drug box as destroyed in WebDCU<sup>™</sup> (Drug Tracking>Site Drug Removing) and enter in the comments "Temperature excursion per TERF.".
    - ii. Sites should destroy unusable study drug per institutional policy. Once the study drug is marked as destroyed in WebDCU<sup>™</sup>, an automatic email notification will be sent to the StrokeNet Central Pharmacy to resupply the site.

### Ordering, Dispensing, Infusion Preparation, and Administration of Study Drug

#### Subject Specific Ordering

A subject-specific order should be placed for study drug per the CPS institutional policy. Subject-specific orders should be entered or written by an authorized provider consistent with the local CPS regulations and institutional policy.

The CPS subject-specific ordering process should generate the necessary labeling to support appropriate compounding and dispensing per SISTER protocol and CPS intuitional policy. Subject-specific orders should allow the CPSs medication administration record (MAR) to be used as final source documentation of administration for study drug dose. All documentation in the medication administration record should be blinded.

If using an electronic medical record, the use of an "order set" (i.e., compilation of orders in a single listing) should be considered to promote timely and standardized entry of all study drug doses and necessary labs per the SISTER protocol. If not using an electronic medical record, a standardized order form consistent with the SISTER protocol and WebDCU<sup>™</sup> randomization format should be considered.

#### Dispensing

The study team and subjects will be blinded in this study, while the pharmacy team responsible for preparing the study drug will remain unblinded. To determine the assigned arm for each subject, SISTER will use a Randomization Code List, which will be provided to each site pharmacy by the NDMC.

To access the "site randomization code" in WebDCU, navigate to WebDCU > SISTER trial > Drug Tracking > 'Site randomization code' tab. You can organize the randomization code alphabetically or by the 'dose level' column. The list must be printed and saved in an unblinded folder with access limited to unblinded pharmacists in the central pharmacy for after-hours randomizations. Only unblinded pharmacists and pharmacy personnel specified in the DOA will be able to view the "site randomization code" list in WebDCU.

After a subject is randomized, a SISTER study team member will obtain a copy of the Randomization Verification Form from WebDCU<sup>™</sup> and deliver it to the CPS pharmacist or designated personnel for dispensing. This form will contain subject weight, a 4-letter randomization code that corresponds to the assigned treatment arm for the subject. The pharmacist will then match the 4-letter randomization code on the form with the 4-letter code on the SISTER Randomization Code List. A visual example is provided below:

Rar	SI ndomizatior	STER S n Code (	ubject Confirmat	tion Form	SISTER		
This form should i	be completed prior to	study drug prep	aration and filed in	the SISTER phan	macy binder.		
	Site Name:	WebDCU Te	est Site 1, Charl	leston, SC			
	Subject ID:	106					
Assigned Ran	domization Code:	ABCD					
	Weight:	63.5 (kg)					
	Randomized By:	Wenle ZHA	0				
Randomized On (Ic	cal 24 hour time):	2/13/2024 1	2:11:04 PM				
Weight-adjusted TS23 dose (mg)							
Weight (kg)	Placebo	3 mg/kg	5 mg/kg	7 mg/kg	10 mg/kg		
60 to <70	0	210	350	490	700		
	Below section	to be complet	ted by Site Pharm	acist.			
I attest that I ref the treatment as	erred to the Rando signment which c	omization Co orresponds to	de List in my ph o the randomiza	armacy binder ition code abov	and identified e.		
I understand that study team men	at this study is bline obers.	ded and that	I should NOT u	nblind any non-	pharmacy		
Signature of the pharmacist attesting to the statements above:							
	PRINT Name:						
	Date:						

<b>EXAMPLE</b> SISTER Randomization Code List					
4-Letter					
Randomization	Treatment Arm				
Code					
JDVS	PLACEBO				
FDOG	PLACEBO				
JAND	3.0 mg/kg (Max. 3 Vials)				
OISD	3.0 mg/kg (Max. 3 Vials)				
LKDG	5.0 mg/kg (Max. 5 Vials)				
OURY	5.0 mg/kg (Max. 5 Vials)				
NMSH	7.0 mg/kg (Max. 7 Vials)				
ABCD	7.0 mg/kg (Max. 7 Vials)				
NATS	10.0 mg/kg (Max.10 Vials)				
RQYW	10.0 mg/kg (10Vials)				

#### **TS23 Infusion Preparation**

The study drug infusion must be prepared under sterile conditions in accordance with your site's local policies and guidelines for compounding intravenous compounds. Below is a step-by-step guide for preparing a TS23 infusion.

- Obtain the SISTER randomization verification form from the SISTER study team member who randomized the subject. Match the 4-letter randomization code on the SISTER Randomization Verification Form with the 4-letter code on the SISTER Randomization Code List to determine the assigned treatment arm for the subject.
- 2. Using the subject's weight and assigned treatment arm, determine the TS23 dose from the TS23 Dosing Table (Table 1) below. Obtain the appropriate number of vials required for the TS23 dose from a SISTER study box. The TS23 study drug is provided in 10 ml vials at a concentration of 10 mg/ml. For example, if subject 123 was assigned to the 7.0 mg/kg arm and weighs 75 kg, they will receive a TS23 infusion of 560 mg. To compound the infusion, 6 vials of TS23 will be needed.

-	TS23 dose	TS23 dose (mg)								
Weight (kg)	placebo 0 mg/kg	3 mg/kg	5 mg/kg	7 mg/kg	10 mg/kg					
<60	0	180	300	420	600					
60 to <70	0	210	350	490	700					
70 to <80	0	240	400	560	800					
80 to <90	0	270	450	630	900					
≥90	0	300	500	700	1000					

#### Table 1: Dosing Based on Subject Weight (mg/kg)

- 3. Obtain a 250mL 0.9% sodium chloride infusion bag from your local inventory.
- 4. Using aseptic technique, remove the required volume from the 250 mL 0.9% sodium chloride IV bag based on Table 2 below. The remaining volume in the IV bag will be used as diluent for the final TS23 infusion. Do <u>not</u> remove the overfill in the 250ml sodium chloride bags. Advise the study team that the Prepared IP Bags might contain a slightly higher volume than 200 ml. After the infusion, study team to confirm that the full contents of the IP bag have been administered.

#### Table 2: 0.9% Saline 250 mL IV Bag Preparation

	0.9% NaCl Volume to be Removed from 250 mL IV Bag (ml)								
	placebo	lacebo							
Weight (kg)	0 mg/kg	3 mg/kg	5 mg/kg	7 mg/kg	10 mg/kg				
<60	50	68	80	92	110				
60 to <70	50	71	85	99	120				
70 to <80	50	74	90	106	130				
80 to <90	50	77	95	113	140				
≥90	50	80	100	120	150				

- 5. Visually inspect each vial to ensure absence of particulates in solution.
- 6. The appropriate weight-based dose of TS23 (see Table 3) will be sterilely withdrawn from the TS23 vials and added to the IV bag containing the 0.9% saline to make a final solution for infusion (200

mL total volume). For example, subject 123 assigned to the 7mg/kg arm and weighing 75kg will need 56ml of TS23.

	Placet mg/kg	0 0	3 mg/kg		5 mg/kg		7 mg/kg		10 mg/kg	
Weight (kg)	TS23 (mL)	0.9% saline (mL)	TS23 (mL)	0.9% saline (mL)	TS23 (mL)	0.9% saline (mL)	TS23 (mL)	0.9% saline (mL)	TS23 (mL)	0.9% saline (mL)
<60	0	200	18	182	30	170	42	158	60	140
60 to <70	0	200	21	179	35	165	49	151	70	130
70 to <80	0	200	24	176	40	160	56	144	80	120
80 to <90	0	200	27	173	45	155	63	137	90	110
≥90	0	200	30	170	50	150	70	130	100	100

 Table 3: Dosing of TS23 and 0.9% Saline (mL) Based on Subject Weight (kg)

- 7. Mix the IV bag by slowly inverting the IV bag 5 times, do not shake the bag.
- 8. An IV label should be applied to the prepared bag in accordance with local policy and should include the following information as a minimum: protocol number (TS23/DS9231-U202), subject initials, subject ID, total volume (200 mL), infusion rate/ duration, time/date prepared and expiration information (i.e., 12 hours following the start time of preparation). There is to be no difference between active and placebo bag appearance or label. An infusion set with a downstream in-line, 0.22-µm, protein-sparing filter will be used for administration. The infusion set should be primed at bedside following the instructions for administration of study drug.
- Once properly compounded, blinded, and labeled, the resulting study drug infusion can be provided to the study team and infused over 15 minutes. At the highest dose of TS23, this corresponds to the maximum rate of <0.67 mg/kg/min.</li>
- 10. Each vial of TS23 will have a unique 5-digit numerical code. This number should be recorded before any used vials are discarded. These numbers should be recorded such that only unblinded pharmacy staff at the site have access and should not be accessible to anyone else without the expressed consent of the SISTER primary investigator.
- 11. Once the vial numbers are recorded, the vial numbers should be entered into WebDCU<sup>™</sup> on the Subject Study Drug Mixing form no later than 72 hrs. post study drug mixing:
  - a. Go to [Drug Tracking]
  - b. Click [Subject Study Drug Mixing]
  - c. Select the blue number in the row of the subject you mixed the drug for
  - d. Select [Edit Record] on the top right-hand corner of the screen.
  - e. Complete the form and press Save Record at bottom of the screen; if you receive an error message indicating wrong Randomization code, Dose level, or Weight-adjusted TS23 dose, double check that you have entered the data correctly. If you still get an error or have an improper number of vials to enter for the number of fields open, please contact NDMC explaining your issue.
- 12. The used TS23 vials can be discarded and documented per site's local guidelines for destruction <u>once</u> the vial numbers have been recorded at the site level and in WebDCU<sup>™</sup>

#### **Placebo Infusion Preparation**

Subjects assigned to the placebo group will receive a 200ml infusion of 0.9% sodium chloride. The infusion bag will be sourced from the local inventory of the site. Using aseptic technique, remove 50 mL from the 0.9% NaCl solution to create a final infusion volume of 200 mL (as indicated in Table 2). The labeling and administration procedures should adhere to the same criteria as the active study drug.

\*\*\*Preparing the active drug takes longer than the placebo bag. When delivering it, be cautious to prevent unblinding (i.e., if preparing the active drug takes 15-20 minutes compared to < 5 min for the placebo, the time gap might unintentionally reveal treatment details to the team)

#### Administration of study drug

After preparation, the 200ml study drug infusion in a 250ml bag will be delivered to the subject's bedside by a study team member or pharmacy member. Follow the listed steps below for administration of study drug:

- 1. Study drug will be infused intravenously through a <u>peripheral</u> vein at a constant rate over 15 minutes.
- 2. Study drug should be administered in a dedicated secondary IV line. An intravenous piggyback (IVPB) system should be used, with the 0.9% NaCl as the primary bag/flush fluids. The secondary line should be primed with the study drug and should NOT be back primed.
- 3. Study drug will be administered via IV infusion using an infusion set, sterile filter, and an IV piggyback flush.
- 4. An infusion pump should be used to control the rate of infusion. See attached Figure 1 "Study IV Infusion Setup" for reference.
- 5. Total infusion volume with the primary/flush IV fluids and study drug (200mL) will be 240 mL, given at a rate of 13.3 mL/minute, with total duration of 18 minutes (~15 minutes of study drug, ~3 minutes for priming and flushing the IV lines).

**NOTE**: If a hypersensitivity reaction develops, the infusion of the study drug should be stopped, and the study drug bag/tubing disconnected from the subject. A separate saline bag and line may be started to administer medications as required, and the subject treated accordingly. An adverse event (AE) should be immediately reported by the study staff via the electronic database.

6. When the study drug administration has been completed, discard the empty study drug bag/tubing in accordance with local protocol.

\*\*The Prepared IP Bags may have a volume slightly exceeding 200 ml. Following infusion, the study team should verify that the entire contents of the IP bag have been administered



### Study Drug Accountability, Expiration/Damage, and Destruction/Return

#### Study Drug Accountability

The CPS pharmacist/designee is responsible for documenting the dispensing and destruction of study drugs using the IP Drug Accountability Log (refer to Appendix D for an example). Additionally, the pharmacist/designee should update the drug inventory logs in WebDCU<sup>™</sup>. CPSs may utilize their own drug accountability forms as long as they are deemed equivalent to the supplied log and document <u>all</u> of the information required on the example log found in Appendix D.

#### **Study Drug Expiration/Damage**

If the CPS has expiring study drug in their inventory, StrokeNet Central Pharmacy will send replacement study drug prior to local inventory expiration. The CPS will mark all study drug vials that are expiring in WebDCU<sup>™</sup> as 'expired' <u>after</u> receiving the replacement study drug. StrokeNet Central Pharmacy will send directions on this process to CPS. 7 days prior to the expiration of a study drug, CPS will receive an automated email from WebDCU<sup>™</sup> notifying them of the upcoming expiration of the study drug in inventory. CPS will receive this email daily until the expiring study drug is removed from WebDCU<sup>™</sup> inventory.



\*\*Updating drug accountability logs and WebDCU™, drug tracking systems is crucial following <u>any</u> <u>instance of dispensing and/or destruction.</u>

#### To remove study drug in WebDCU™:

- 1. From the main menu page, click [Drug Tracking] and then [Drug Site Removing]. A list of all study drug previously removed and currently in inventory will appear.
  - a. <u>Note</u>: Use the 'Last dispensable date passed, removal pending' system filter located in the 'Page Actions' drop-down menu to filter for study drug that is past its last dispensable date and need to be removed.
- 2. Select the study drug that needs to be removed by clicking on the blue number link in the left-hand column.
- 3. Click on 'Edit Record' at the top of the screen.
- 4. Edit the removing confirmed radio button to indicate 'Yes.'
- 5. Enter the date removed, the removing type, and any removing notes.
  - a. For expiring drug, select 'Expired' and add the comment 'Expiring MM/DD/YYYY.'
  - b. Other removing options include Damaged, Missing, Returned, Recall, Quarantined, Temperature excursion, Site closing, and Other.
- 6. To finish, click 'Save Record'. You will need to repeat this process for each study drug you would like to remove.
- 7. Once the study drug is confirmed as destroyed, update the following:
  - a. Edit the study drug destroyed confirmed radio button to indicate 'Yes.'
  - b. Enter the method of destruction and date destroyed.

#### Study Drug Destruction/Return

For damaged, expired, or unused study drug, once study drug is accounted for and all documentation is appropriately completed, including WebDCU<sup>™</sup>, study drug must be destroyed per the CPS policy and procedures. Study drug may be returned to the StrokeNet Central Pharmacy, at the site's expense, if required by CPS institutional policy.

If study drug is being returned to the StrokeNet Central Pharmacy, the following steps must be followed:

- 1. The Study Drug Return Form (Appendix E) *must be completed and returned with the shipment*.
- 2. The study drug should be addressed and shipped to the StrokeNet Central Pharmacy via the institution's preferred postal carrier.
- 3. <u>If study drug is being returned per institutional policy, shipping costs will be at the expense of the CPS.</u>
- 4. Package tracking information must be provided to the StrokeNet Central Pharmacy via email at <u>SISTERTrialRX@ucmail.uc.edu</u>.
- 5. Returned study drug does not require temperature monitoring during transit, therefore, a temperature logger does not need to be included with the shipment.
- 6. Returned study drug to the StrokeNet Central Pharmacy may not contain any patient/subject identifiers.

### Appendix A Temperature Monitoring Log Example

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Current Versions of Appendices can be found on WebDCU™ > SISTER >Toolbox> Project Documents

Site ID: Site Name: PI: Instructions: Un temperature, max	nder the appropr ximum temperat	iate date record tin ture, conformation excursions	Tempo Site Address: me of the temperat of resetting of the promptly to study	Protocol: TS23, erature Range: 2 <sup>rd</sup> ture reading, the co thermometer if ap sponsors.	<b>/DS9231-U202</b> °C to 8°C (36°F to urrent temperature oplicable and intials	46°F) e, minimum . Report any
Month/Year: Date	ime of Reading	Current Temp	Minimum Temp	Maximum Temp	Confirmation of	Reader's Initials
1       2         3       4         5       6         6       7         8       9         10       1         11       1         12       1         13       1         14       1         15       1         16       1         17       1         18       1         19       2         21       2         23       2         24       2         27       2         28       2         29       1						

### Appendix B Temperature Excursion Report Form

Current Versions of	Appendices can	be found on	WebDCU™ >	SISTER >	Toolbox>	Project Docu	uments

29	Study Drug Temperature Excursion Report Form					
SISTER	Allowable S	Pro torage Rang	tocol # TS23/DS923 e per USP Controlled F	31-U202 Room Temperature: <b>2</b>	° to 8°C (36° to 46°F	
Date of Excursion:	Site ID #:	Site ID #: Site Name: Investigator's Name:				
<ul> <li>Instructions:</li> <li>Please complete this form in its entirety.</li> <li>Email this form and all relevant temperature logs to the StrokeNet Central Pharmacy at <u>SISTERTrialRX@ucmail.uc.edu</u> and NCC and PRIME Project manager at <u>plummepa@ucmail.uc.edu</u> <u>baile2sh@ucmail.uc.edu</u></li> <li>Quarantine the affected study drug until StrokeNet Central Pharmacy's review is complete.</li> <li>US Pharmacopeia (USP) rounding rules are applied for temperature excursions. i.e., 1.5°C is 2°C and 8.4°C is 8°C, both examples ar not reportable temperature excursions.</li> <li>Temperature excursions with the duration maximum of 30 minutes and with <u>no</u> previous excursions, do not need to be reported.</li> </ul>						
Low Extreme (Bel	ow 2°C)		🗌 High Extreme (A	Above 8°C)		
Temperature:       °C       Duration of Excursion:       Hours       Minutes         Temperature:       °C       Duration of Excursion:       Hours       Minutes         Description of Excursion:         Hours       Minutes					Minutes Minutes	
las the issue been res	olved? 🗌 Yes		lo			
Vial Code	Box	Code	Lot #	Involved in Previo	ous Excursion?	
				Yes, Date:	No	
				Yes, Date:	No	
				Yes, Date:	No	
				Yes, Date:	No	
				· · ·		
				Yes, Date:	No	
				Yes, Date: Yes, Date:	No No	
				Yes, Date: Yes, Date: Yes, Date:	No           No           No	
				Yes, Date: Yes, Date: Yes, Date: Yes, Date:	No           No           No           No           No	
				Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date:	No           No           No           No           No           No           No           No	
				Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date:	No           No           No           No           No           No           No           No           No	
				Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date:	No	
				Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date:	No           No	
eporter's Name (Pri	nt):			Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Contact Phone Number	No           No           No           No           No           No           No           No           No	
eporter's Name (Pri eporter's Signature:	nt):		(	Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Contact Phone Number Date:	No	
eporter's Name (Pri	nt):	okeNet NC	C Central Pharmacy	Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Ontact Phone Number Date: Date: Use Only	No           No           No           No           No           No           No           No           No           Prime	
eporter's Name (Pri eporter's Signature: The StrokeNet NCC C temperature excursion	nt):	okeNet NC has evaluate on this form. F	C Central Pharmacy d the data made availabl Please follow these instru	Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Yes, Date: Contact Phone Number Date: Use Only le by the Clinical Practic uctions regarding the St	No STER study drug	
eporter's Name (Pri eporter's Signature: The StrokeNet NCC C temperature excursio Affected study dru study drug from inve	nt):	DkeNet NC has evaluate on this form. F suitable for u <u>NOT</u> suitable	C Central Pharmacy d the data made availabl Please follow these instru- ise and may be returned for use. Please follow in	Yes, Date:         Ontact Phone Number         Date:         Oute:         Yes         Yes         Yes         Oute:         Oute:         Yes         Yes         Yes         Yes         Yes         Yes         Yes      <	No N	

**Appendix C** WebDCU<sup>™</sup> Instructions for Quarantined/ Removal of Study Drug Current Versions of Appendices can be found on WebDCU<sup>™</sup> > SISTER >Toolbox> Project Documents

ne	ed to tempora	rily remove the Bo	x/Vial from inventory in WebDCU.
1.	From the main	menu page, click on	[Drug Tracking].
			Drug Tracking
2.	Then click on [[	)rug Vial Removing]	
	men click on [E	nug viurnemoving]	
			Drug Vial Removing
-	Clink also be	the state from the	alizza of the filiat Decody table of second to the life order of the
3.	reporting as qu	arantined.	biumn of the List Record table adjacent to the kit code you are
	A 1.16 1165		
		4	
			1 University of
			1 University of
			1 University of
4.	Click [Edit Reco	ord] at the top of the	1 University of screen.
4.	Click [Edit Reco	ord] at the top of the	1 University of
4.	Click [Edit Reco	ord] at the top of the	University of     Screen.  Edit Record List Reco
4.	Click [Edit Reco	ord] at the top of the	University of     Screen.  Edit Record List Reco
4.	Click [Edit Reco	ord] at the top of the	Constant of the second se
4.	Click [Edit Reco	ord] at the top of the	University of     University of     Edit Record List Reco  removing type, select 'Quarantined'
4.	Click [Edit Reco	ord] at the top of the ired information. For OExpired ODamaged OSite closing OOther	I University of     Screen.  Edit Record List Reco removing type, select 'Quarantined' Missing OReturned ORecall Quarantined OTemperature excur
4.	Click [Edit Reco Enter the requi Removing type To finish, click	ord] at the top of the ired information. For OExpired ODamaged OSite closing OOther [Save Record].	I University of     Screen.      Edit Record List Reco  removing type, select 'Quarantined'  Missing OReturned ORecall Oquarantined OTemperature excur
4. 5.	Click [Edit Reco Enter the requi Removing type To finish, click	ord] at the top of the ired information. For OExpired ODarmaged OSite closing OOther [Save Record].	I University of      screen.      Edit Record List Reco  removing type, select 'Quarantined'      Missing Returned Recall Quarantined Temperature excur

WebDCU Instructions for Quarantined Study Drug: Study Drug deemed Fit for Use If the study drug is deemed fit for use after quarantine, the study drug must be put back into inventory in WebDCU.				
Repeat step 1-4 as above				
5. Change 'Removing Confirm' to 'No. '          Removing confirm       No       Yes         Date removed       Image: distances       (distances         Removing type       Expired       Damaged       Missing       Returned       Cother         Removing notes       (to be assigned by the system)       (to be assigned by the system)       (to be assigned by the system)				
Removing confirmed on (to be assigned by the system)				
6. To finish, click [Save Record].				
Save Record         7. Repeat for all IP being removed from quarantine.				
WebDCII Instructions for Quarantined Study Drug				
Study Drug deemed NOT Fit for Use				
If the study drug is deemed NOT fit for use after quarantine:				
Repeat step 1-4 as above				
5. Change 'Removing Type' to Damaged.				
Removing confirm       No       Yes         Date removed       (####################################				
Removing confirmed on (to be assigned by the system)				
6. To finish, click [Save Record]. Save Record				
7. Repeat for all IP deemed not fit for use.				

### Appendix D Accountability Log Example

Current Versions of Appendices can be found on WebDCU™ > SISTER >Toolbox> Project Documents

	StrokeNet Investigational Product (IP) Accountability Log Site ID #:									
S	STER		SISTER	Protocol Number: TS23/DS9231-U202				Site PI:		
Instruction: Eac	nstruction: Each row is for accountability of one study box and one vial. If not dispensed please fill in dispensing section with n/a, not applicable.									
Inventory on Site				Sub	ject Level Accou	intability		Destruction/Return		
Date Received	Box ID #	Vial #	Received By (initial/date)	Subject ID	Date Dispensed	Dispensed By (initials/date)	Date Destroyed or Returned	Method Of Destruction/Return to SNCP	Destroyed By (initial/date)	

### Appendix E Study Drug Return Form

Current Versions of Appendices can be found on WebDCU<sup>™</sup> > SISTER >Toolbox> Project Documents

Instructions to the Pharmacist/Designee: 1. Type or handwrite clearly all information. 2. Complete all sections (except StrokeNet NCC Central Pharmacy Use Only section). 3. Print this form (if needed). 4. Sign and date this form. 5. Keep a copy of form for your records. 6. Enclose this form with study products and return via preferred shipping method to the StrokeNet NCC Central Pharmacy. 7. Pack study products properly to prevent breakage and/or leakage. 8. Send to the StrokeNet NCC Central Pharmacy via email.			Stu	Strok	Drug Return Form keNet Central Pharmacy ISTER umber: TS23/DS9231-U202	Return to: StrokeNet Central Pharmacy: UC Medical Sciences Bldg 231 Albert Sabin Way Room G162 Cincinnati OH 45267-0405 Phone: 513-584-3166 Email: SISTERTrialRX@ucmail.uc.edu	
Site Name:						Site Number:	
						Date:	
Vial Code	Code Box Code			Lot# Reason for Return		Reason for Return	Comments
							1
ite/Pharmac	y Mailing Add	lress:			Design	ee/Pharmacist Name:	Contact Phone Number:
					Designee/Pharmacist Signature:		Date:
				StrokeNet	Centi	ral Pharmacy Use Only	
Study	Name	Protoco	Number	Date Proce	ssed	Signature of R	leviewing Official
SIST	SISTER TS23/DS9231-U202						

Changes in Version 2.0					
Sections Affected	Changes in the MOP				
Title Page	Added new version number and date				
Page 4	Update Contact information				
Page 5	Added "Non DEHP" to 250 ml NS infusion bag				
Page 10	Added instructions to #6 under Study Drug Receiving				
Page 16	Added guidance on accessing the "site randomization code				
Page 17	<ul> <li>Use "≥ 90" instead of "&gt;90" for the infusion preparation in tables 1, 2, and 3</li> <li>Additional instructions for bullet #4 in infusion preparation regarding</li> </ul>				
	overfill.				
	<ul> <li>Additional instructions for Subject Study Drug Mixing form to #11</li> </ul>				
Page 19	Added guidelines for placebo infusion preparation concerning preparation timing				