



SHINE Study Ordering Instructions for Investigators – SUNY Downstate

General Directions

- 1) Call Spiro Demetis to get patient admitted to ICU ASAP. Cell: 646-261-5730; Pager: 917-760-1653. Let him know that this is a SHINE study patient that needs a bed urgently.
- 2) Make sure that the patient gets registered in Eagle (orders in ER Holding **NOT** Outpatient). Call admitting to check on status/progress : (718) 270-2862
- 3) Please call the pharmacy to let them know that you will be ordering SHINE study drugs for a patient (give name and MRN)
 - a. During regular business hours, call Motria at x4340.
 - b. All other times, call the main pharmacy at x2854 or x2856
- 4) Please determine if patient has been cleared to eat or if patient remains NPO.
- 5) Please fax a copy of the randomization confirmation to pharmacy & copy of the consent (Motria – x8192 or Main – x2855) or bring it to the pharmacy.
- 6) Please be sure to order a SHINE Diet for either group (instructions below).

General Ordering Instructions:

****All study drug ordering is done in HEALTHBRIDGE so patient must be admitted **before** drug can be ordered!!!**

- 1) Login to HealthBridge, and select the prescription writer.
- 2) Utilize the search box to locate the appropriate drugs below.

Ordering Instructions for Control Group (ORANGE)

- 1) Ordering IV Saline Infusion:

Drug: Normal Saline Infusion No Additive 250 ml x 1 dose

Medication Dispensing Source: Pharmacy

Route: IV Drip

Rate: **0.01 ml/hr** (*dummy dose*)

Frequency: Continuous

Duration: 24 hours (→ *Pharmacy will adjust duration to 72 hrs upon order verification*)

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field:
 - “SHINE Study order”
 - “Infuse for 72 hrs”
- Nurse Instructions field:
 - “Infuse for 72 hrs”
 - “Rate adjustments based upon POC FS blood glucose measurements and protocol sliding scale (4 ml/hr for BG 80- 179 mg/dL or 5 ml/hr for BG ≥ 180 mg/dL). Discontinue if BG < 80 mg/dL and start SHINE hypoglycemia protocol.”

* = Order on day glargine dose is required, after does desired is known

** = Order NS injections when patient is NPO; when patient cleared to eat, discontinue NS injection order, and place order for Insulin Aspart.

2) Ordering Insulin Injections: *Please note: Re-order daily so that Level can be confirmed.

Drug: Insulin Regular Injectable

Medication Dispensing Source: Pyxis

Start Date: Date of first dose

Start Time: Select "Routine"

Dose: **0.01 Units** (*dummy dose*)

UOM: Units

Route: Subcutaneous

Frequency: Select "User schedule" option from drop down menu. Click on box to the right of this field. Select time 06:00 and click "Add". Do the same for the other times (12:00, 18:00, 00:00) then click "OK".

Duration: 72 hours

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field: "SHINE Study order",
- Nurse Instructions field: *Select the sliding scale (below) for the level patient is at then copy & paste scale into field. Prescriber can delete the existing note that is preconfigured in the "Nurse Instructions" field since it would not apply to these patients.*

Glucose (mg/dL)	level 1 (units)
> 450	8
400-450	7
351-399	6
300-350	5
251-299	4
200-250	3
180-199	2
80-179	0
<80	start SHINE Study hypoglycemia protocol

Glucose (mg/dL)	level 2 (if 2 prev BG levels \geq 180)
> 450	16
400-450	14
351-399	12
300-350	10
251-299	8
200-250	6
180-199	4
80-179	0
<80	start SHINE Study hypoglycemia protocol

* = Order on day glargine dose is required, after does desired is known

** = Order NS injections when patient is NPO; when patient cleared to eat, discontinue NS injection order, and place order for Insulin Aspart.

Glucose (mg/dL) level 3 (if 2 prev BG still \geq 180)

And administer Glargine x 1 dose

> 450	16
400-450	14
351-399	12
300-350	10
251-299	8
200-250	6
180-199	4
80-179	0
<80	start SHINE Study hypoglycemia protocol

3) Ordering Glargine*:

Drug: Insulin Glargine Injectable

Start Time: Select "Time Critical"; put in 48 hour (from randomization) time point.

Medication Dispensing Source: Pyxis

Dose: 40% of previous day's entire insulin dose (**must be numeric**)

UOM: Units

Route: Subcutaneous

Frequency: Once

Instructions: If 2 previous BG \geq 180 mg/dL on level 2 dose of regular insulin, give 40% of previous day's entire insulin dose x 1 SQ at 48 hour point of study and continue level 3 regular insulin dosing.

- Cut & paste in Note to Pharmacy field: "SHINE Study order"

4) Ordering Dextrose 50%:

Drug: Dextrose 50% IV

Dose: 12.5 grams

Medication Dispensing Source: Pyxis

UOM: grams

Route: IV Push

Frequency: PRN (check PRN box and select "Every 15 minutes" in frequency field)

Duration: 72 hours

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field: "SHINE Study order"
- Nurse Instructions field: "Q15minutes until FS BG \geq 80 mg/dL."

* = Order on day glargine dose is required, after does desired is known

** = Order NS injections when patient is NPO; when patient cleared to eat, discontinue NS injection order, and place order for Insulin Aspart.

Instructions for Intervention Group (Blue)

1) Ordering Insulin Infusion:

Drug: Insulin Regular Drip 250 u/250 mL

Rate: **0.01 ml/hr** (*dummy dose*)

Medication Dispensing Source: Pharmacy

UOM: ml/hr

Route: IV Drip

Frequency: Continuous

Duration: 24 hours (→ Pharmacy will adjust duration to 72 hrs upon order verification)

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field:
 - “SHINE Study order”
 - “Infuse for 72 hrs”
- Nurse Instructions field:
 - “Infuse for 72 hrs”
 - “Adjust rate per Glucostablizer recommendations at BG check times. Discontinue if BG < 80 mg/dL and start SHINE hypoglycemia protocol.” (Prescriber can delete existing note that is preconfigured in the Nurse Instructions field since it would not apply to these patients.)

2) Ordering Normal Saline Injections**:

Order “Non-formulary medication request”. This right is assigned to attending physicians **ONLY**. **Any prescriber who does not have attending credentials in HealthBridge cannot enter/discontinue NF free-text orders. NF free-text orders entered by residents/fellows do not cross over to the pharmacy verification screen nor are they viewable by Pharmacy. In this case, either an attending shall enter these orders electronically in HB or the resident/fellow shall write a paper order (include the attending’s name after they’ve signed the order) and fax to Pharmacy x2855. Call Pharmacy to re-enter the order on behalf of the attending, Motria 9-5 M-F x4340; all other hours Main Pharm x2856, x2854, or x6143**

Medication Name field: Enter “Normal Saline (Floor Stock 10 ml vial)”

Start Time: Routine

Medication Dispensing Source Field: Select “Pharmacy”. [Inform nurse to take from floorstock even though order indicates dispensing source as Pharmacy.](#)

Non-formulary Reason field: SHINE Study

Dose: 0.05 ml

Route: Subcutaneous

Frequency: BID at 09:00 and 21:00 (BID dosing defaults to 10 AM and 6 PM. The time specified 09:00 and 21:00 are 12hrs apart. For specific dosing time, select “user schedule” in the drop down menu of the frequency field. A box will appear to the left once “user schedule” is selected. Click on box to the left of the field and select 09:00 then click “Add”. Next select 21:00 and click “Add” to include these 2 times in the order.

* = Order on day glargine dose is required, after does desired is known

** = Order NS injections when patient is NPO; when patient cleared to eat, discontinue NS injection order, and place order for Insulin Aspart.

Duration: 72 hours

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field: "SHINE Study order"
- Nurse Instructions field "If subject NPO or receiving continuous tube feeds, give 0.05 ml NS with BG checks closest to 09:00 and 21:00"

3) Ordering Insulin Aspart Injections**:

Drug: Insulin Aspart Injectable

Medication Dispensing Source: Pyxis

Dose: **0.01 Units (dummy dose)**

Frequency: TID with meals

Duration: 72 hours

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field: "SHINE Study order".
- Nurse Instructions field: "Dose based on meal consumption of 60 g carb meal. Dose will be supplied by Glucostabilizer." *Prescriber can delete existing note that is preconfigured in the field since it would not apply to these patients.*

4) Ordering Dextrose 50%:

Drug: Dextrose 50% IV

Medication Dispensing Source: Pyxis

Dose: **0.01 gram (dummy dose)**

Route: IV Push

Frequency: Q15minutes PRN (check PRN box then select "Every 15 minutes in the frequency field)

Duration: 72 hours

Instructions: [Copy & paste notes below to respective field\(s\)](#)

- Note to Pharmacy field: "SHINE Study order".
- Nurse Instructions: Follow SHINE hypoglycemia protocol for BG < 80 mg/dL. Dose according to Glucostabilizer recommendations.

Ordering Instructions for SHINE Diet

- 1) Select the "Regular Diet".
- 2) In the ordering instructions, please type, "SHINE Protocol Diet, 60 gram Carbohydrates/meal"
- 3) Please make sure you choose an end date so that it ends once the 72 hours are over.

* = Order on day glargine dose is required, after does desired is known

** = Order NS injections when patient is NPO; when patient cleared to eat, discontinue NS injection order, and place order for Insulin Aspart.