Stroke Hyperglycemia Insulin Network Effort (SHINE) Trial

Investigator Meeting for New NETT Hubs
November 12, 2012



Stroke Hyperglycemia Insulin Network Effort Investigator Meeting Agenda

2:00-8:00am 3:00-8:15 3:15-8:45 3:45-10:15	BREAKFAST/REGISTRATION Opening Remarks - Barsan/Janis/Johnston Eligibility - Johnston Protocol Training - Bruno • Review of the basics • Hypoglycemia protocols & pauses	
	 Post protocol & outcomes - Johnston 	
.0:15-10:45	BREAK	
.0:45-11:45	Study Laptop Training - Zito	
.1:45-12:30pm	Protocol Cases and Q&A - Johnston	
.2:30-1:30	LUNCH	
:30-2:00	Randomization and Navigating in WebDCU - Briggs	
:00-2:45	Preparing for Site Readiness	
	 Preparing study orders & laptops - Fansler 	
	 Regulatory requirements & RC process - Ramakrishnan 	
	• Coordinator panel from enrolling sites - Ewing/Fansler/Hall/Reime	er
:45-3:00	Safety Reporting - Dillon	
:00-3:15	Monitoring - Frederiksen/Harsh	
:15-3:30	BREAK	
:30-3:45	Recruitment Update - Hall	
:45-4:15	I-SPOT - Gentile/Reimer	
:15	Adjourn	
	:00-8:15 :15-8:45 :45-10:15 0:15-10:45 0:45-11:45 1:45-12:30pm 2:30-1:30 :30-2:00 :00-2:45 :45-3:00 :00-3:15 :15-3:30 :30-3:45 :45-4:15	COD-8:15 COpening Remarks - Barsan/Janis/Johnston CI5-8:45 Eligibility - Johnston Protocol Training - Bruno Review of the basics Hypoglycemia protocols & pauses Post protocol & outcomes - Johnston CI5-10:45 BREAK CI45-11:45 Study Laptop Training - Zito Protocol Cases and Q&A - Johnston LUNCH CI30-2:00 Randomization and Navigating in WebDCU - Briggs Preparing for Site Readiness Preparing study orders & laptops - Fansler Regulatory requirements & RC process - Ramakrishnan COOrdinator panel from enrolling sites - Ewing/Fansler/Hall/Reime COO-3:15 Monitoring - Frederiksen/Harsh BREAK COO-3:45 Recruitment Update - Hall CI15 CI16 CI16

Stroke Hyperglycemia Insulin Network Effort (SHINE) Trial

Eligibility

Karen C. Johnston, MD, MSc Administrative PI



Inclusion Criteria

- Age 18 years or older
- Diagnosis of ischemic stroke (neuroimaging must exclude ICH)
- Treatment must begin w/in 12 hrs of stroke symptom onset and w/in 3 hrs of hospital arrival (protocol change underway, request variation)



Inclusion Criteria

- Known Type II DM & glucose >110 mg/dL OR blood glucose ≥150 mg/dL in pts w/o known diabetes (finger stick at enrolling hospital)
- ★Baseline NIHSS 3-22 (within 30 min of randomization)
- ◆Pre-stroke mRS of 0 (protocol change underway)
- Valid informed consent



Exclusion Criteria

- Type I DM (hx, records, docs, etc)
- Neurological or psychiatric illness that would confound neurological or outcome assessment (Exclude any pt deemed by enrolling physician to have condition that confounds enrollment neurological exam)
- Received experimental therapy for enrollment stroke. (IV tPA (up to 4.5 hrs), IA tPA &IA therapies including FDA cleared devices allowed. Non FDA cleared devices excluded)



Exclusion Criteria

- Pregnant or breast-feeding
- Other serious conditions that make pt unlikely to survive 90 days
- Inability to follow protocol or return for 90 day f/u
- Renal dialysis



Common Eligibility Questions



Q1: How do we distinguish between Type 1 and Type 2 diabetes when we are trying to determine if a patient meets eligibility criteria to be enrolled?



A1: T1DM vs T2DM

- Based on history provided by patient/family and medical records or physician contact
- Any pt on insulin therapy with no known history of oral agents assumed to be T1
- Ask the following questions
 - Ever tried to control diabetes with diet/exercise only?
 - Ever taken a pill for your diabetes?
 - Since diagnosis always used insulin (shots or pump)?
 - Age when diagnosed?
- Contact the PI on call with questions



T1DM vs T2DM (FAQ info)

<u>Type 1 (also called T1DM, insulin-dependent or juvenile diabetes)</u>

- Commonly is diagnosed from infancy to the late 30s
- Pancreas produces little or no insulin
- Cannot be prevented and no cure
- Causes dependence on injected or pumped insulin for life

<u>Type 2 (also called T2DM, non-insulin-dependent or adult-onset diabetes)</u>

- Most common form of diabetes
- Typically develops after age 40, but can appear earlier
- Body does not produce enough or use insulin effectively
- Treatments include diet, exercise, oral medications



Q2: What do we do when a patient says he has borderline diabetes?



A2: Borderline Diabetes

- Must either have a history of type 2 diabetes and a glucose level of >110mg/dL OR a glucose level of >150mg/dL with no known history of diabetes.
- Diagnosis of diabetes based medical history provided by the pt/family and/or the medical record.
- If a pt/family reports a history of borderline diabetes and it is not clear in the medical record, contact the PI on call.



Q3: A potential subject is known to be a type 2 diabetic and is insulin dependent at home. Can we enroll someone who on NPH insulin?



A3: Enrolling Insulin Dependent Diabetic

- Many diabetics will be on home insulin and are eligible
- Special situation on insulin pump not an exclusion but up to the discretion of enrolling investigator
- All home DM meds will be held during study treatment



Q4: Can we use the glucose check from the EMS for eligibility?



A4: Eligibility Glucose Check

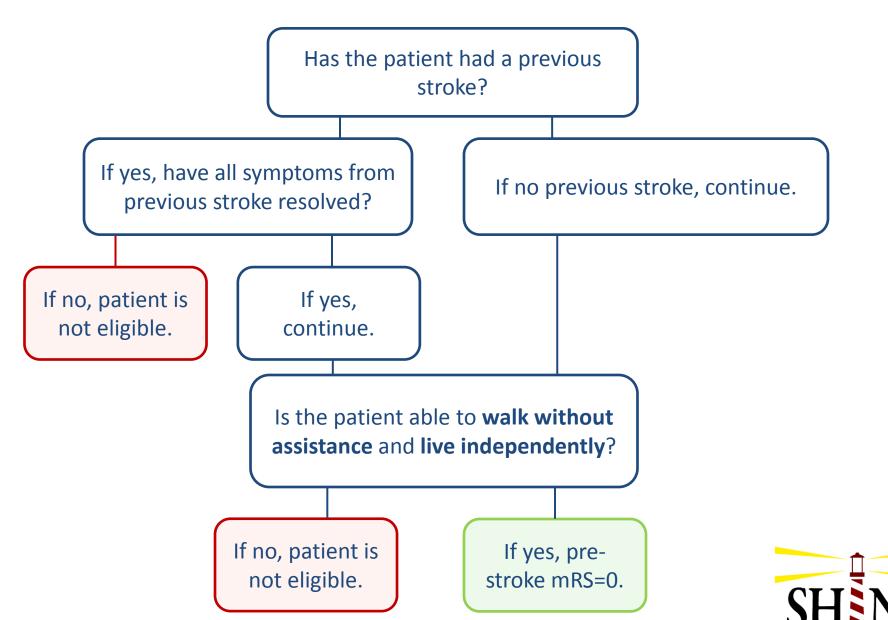
- No cannot use OSH or EMS POC result
- Need one POC glucose check (finger stick) at enrolling hospital prior to randomization
- Cannot be a serum glucose level from lab
- Once you have an eligible POC result, you do not have to repeat before randomization
- If another check is done and not in range, pt no longer eligible and should not be randomized
- If BG is below the eligible level but close, you may check again later



Q5: We are screening an 81 y/o man with diabetes who has had a stroke with right sided ataxia. The ataxia completely resolved. He has numbness in both his feet. He lives alone and walks with a cane. How do we score the pre-stroke mRS?



The pre-stroke mRS & eligibility



A5: Pre-stroke mRS

- mRS = 0
 - Stroke symptoms have resolved
 - His numbness is his diabetic neuropathy
 - He is independent
 - A cane is a necessary device for walking and is not considered assistance

- Sample mRS cases posted on study website
 - May be helpful in training investigators



Q6: Should we enroll a patient with a POC glucose of 451mg/dL in the ED if he meets all of the other eligibility criteria?



A6: Screening a Patient w/ High Glucose

- Should not enroll if pt requires insulin infusion (DKA, hyperosmolar coma, etc)
- Any SHINE patient with BG
 500 requires
 notification of the safety monitor and may be
 withdrawn from study treatment

 Enrollment of pts with very high glucose is per judgment of investigator/treating team



