GLYCEMIC CONTROL SURVEY

Objective: To gain an understanding of the current state of glycemic control (ie, intensive insulin therapy and frequent blood glucose testing) protocol use in hospital inpatients.

Thank you for taking the time to complete this survey!

Please keep in mind the following as you are completing this survey...

1. Your answers will automatically save each time you click "Next", so that you can return to the survey at a later time.
2. If there is someone else in your facility who would be better suited to complete a survey on glycemic control in the inpatient setting or if you have any questions, please email us at tgcsurvey@epsilongroup.com .
3. The survey link is unique to you. Please do not forward it.
The Epsilon Group Virginia, LLC

D€	emographics		
	1 Plasso ontor your	contact information and ho	espital information holow
	First Name		spital illioithation below.
	Last Name		
	Title		
	Role in Hospital		
	Years of Experience		
	Hospital Name		
	Address		
	City		
	State		
	Zip Code		
	Bed Size of Hospital (i.e.,		
	Number of Beds) Hospital Type (e.g.,		
	Academic, Urban, Rural)		
*	* 2. Do you work in the	e inpatient or outpatient se	tting?
	jn Inpatient ONLY		
	jn Outpatient ONLY		
	jn Both Inpatient and Outpat	tient	

Managing Diabetes & Hyperglycemia

3. To what extent has your hospital implemented a quality improvement program for monitoring diabetes and/or hyperglycemia care for the following?

	Nothing Planned	In Planning Phase	Planned, Not Yet Implemented	Partially Implemented	Fully Implemented
Critically ill patients (those in the ICU or Stepdown/Intermediate care patients)	jn	jn	jα	j'n	j'n
Non-critically ill patients (those NOT in the ICU or intermediate care/stepdown unit)	j m	jn	j n	j m	j n
Perioperative patients (24 hours prior to surgery through the first 48 hours after surgery)	jn	jα	jα	jα	j o
Other (specify below)	j m	j n	j m	j m	j n
Please specify "Other" belo	W .				

4. To what extent has your facility implemented written policies or protocols for the following?

	Nothing Planned	In Planning Phase	Planned, Not Yet Implemented	Partially Implemented	Fully Implemented
Management of hyperglycemia	jα	j a	j n	j o	ja
Management of hypoglycemia	j n	j n	j n	j n	Ĵm
Management of hyperglycemia crisis	jα	j a	j n	j o	ja
Management of diabetic ketoacidosis	j n	j n	j n	j n	Ĵ'n
Inpatient management of insulin pumps	jα	j o	j n	j o	ja
Frequency of glucose measurement	j n	j n	j n	j n	Ĵn
Glycemic control protocol	jα	j o	ja	j o	j n
Other (please specify)				_	

5. Please indicate the guideline(s) your hospital uses (if any) to manage diabetes or hyperglycemia. (MARK ALL THAT APPLY)

6	Currently	unfamiliar	with any	quidelines	for	managing	diabetes	or	hyperglycemia

- JCAHO Diabetes Disease-Specific Guidelines
- Society of Hospital Medicine
- § American College of Endocrinology/American Diabetes Association
- Other (please specify)

Percentage of Patients with Diabetes/Hyperglycemia

6. What percentage of ALL HOSPITAL PATIENTS would you ESTIMATE have a diagnosis of diabetes or hyperglycemia?

jn 0 – 20% jn 21 – 40% jn 41 – 60% jn 61 – 80% jn 81 – 100% jn Do not know

7. What percentage of patients in your CRITICAL CARE UNIT(S) would you ESTIMATE have a diagnosis of diabetes or hyperglycemia?

jn 0 – 20% jn 21 – 40% jn 41 – 60% jn 61 – 80% jn 81 – 100% jn Do not know

8. What percent of patients in your CRITICAL CARE UNIT(S) are on a standardized glycemic control protocol?

jn Have not jn 0 to 20% jn 21 to 40% jn 41 to 60% jn 61 to 80% jn 81 – 100% jn Do not know implemented glycemic control in our Critical Care Unit(s).

Standardized Protocols

Other (please specify)

	n what nursing units has your facility implemented standardized, IV insulin stocols? (MARK ALL THAT APPLY)
É	None
é	General ICU
é	Cardiac Care Unit
É	Medical ICU
É	Thoracic Cardiovascular ICU
É	Surgical ICU
ê	Pre and Postoperative Anesthesia Care Unit
Ē	Neurological or Neurosurgical ICU
É	Designated step-down unit
ê	All step down units
ê	Designated hospital ward
ē	All hospital wards
ê	Other (please specify)
10.	Other (please specify) In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY)
10.	In what nursing units has your facility implemented standardized,
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY)
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10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU
10. SU ê ê ê ê ê ê	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU Thoracic Cardiovascular ICU
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU Thoracic Cardiovascular ICU Surgical ICU
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU Thoracic Cardiovascular ICU Surgical ICU Pre and Postoperative Anesthesia Care Unit
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU Thoracic Cardiovascular ICU Surgical ICU Pre and Postoperative Anesthesia Care Unit Neurological or Neurosurgical ICU
10. SU	In what nursing units has your facility implemented standardized, BCUTANEOUS insulin protocols? (MARK ALL THAT APPLY) None General ICU Cardiac Care Unit Medical ICU Thoracic Cardiovascular ICU Surgical ICU Pre and Postoperative Anesthesia Care Unit Neurological or Neurosurgical ICU Designated step-down unit

Glucose Targets

11. In CRITICALLY ILL patients (those in the ICU or intermediate care/stepdown units), what glucose range do you typically target?

```
jn No targeted glucose level

jn 80 - 110 mg/dL

jn 80 - 140 mg/dL

jn 80 - 180 mg/dL

jn <200 mg/dL

jn Do not know

jn Other glucose level (please specify)
```

12. In NON-CRITICALLY ILL hospitalized patients (those NOT in the ICU or intermediate care/stepdown unit), what glucose range do you typically target?

```
jm No targeted glucose range
jm 80 - 110 mg/dL
jm 80 - 140 mg/dL
jm 80 - 180 mg/dL
jm <200 mg/dL
jm Do not know
jm Other glucose range (please specify)</pre>
```

13. During the PERIOPERATIVE PERIOD (24 hours prior to surgery through the first 48 hours after surgery), what glucose range do you typically target?

```
jm No targeted glucose range
jm 80 - 110 mg/dL
jm 80 - 140 mg/dL
jm 80 - 180 mg/dL
jm <200 mg/dL
jm Do not know
jm Other glucose range (please specify)</pre>
```

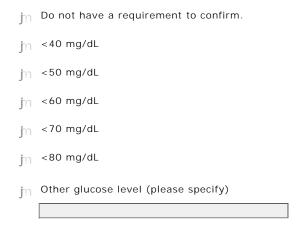
14. Overall, what percentage of your hospitalized patients would you estimate achieve their targeted glucose range?

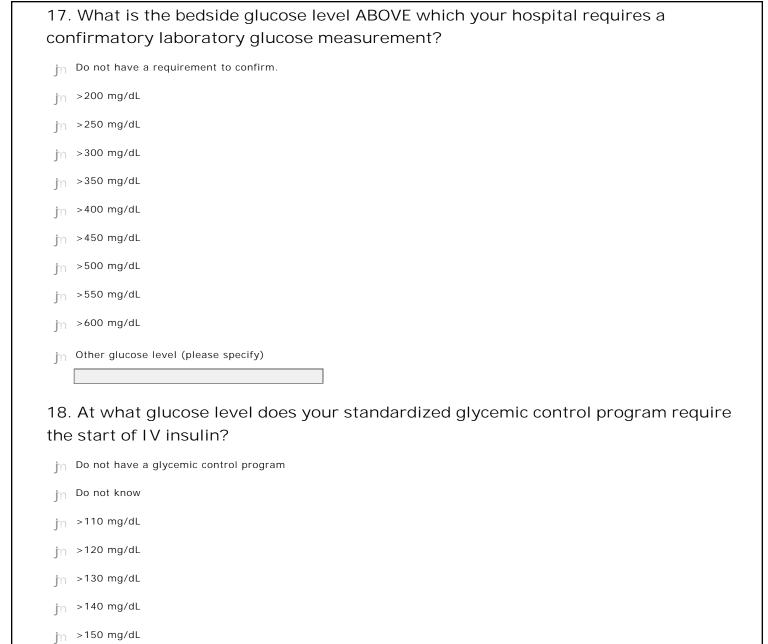
	Do not know	0 – 20%	21 - 40%	41 - 60%	61 – 80%	81 – 100%
Critically III Patients (those in the ICU or intermediate care/stepdown units)	jα	j m	j n	jη	j n	j o
Non-Critically III Patients (those NOT in the ICU or intermediate care/stepdown unit)	j n	j'n	j m	j n	j m	j n
Perioperative Patients (24 hours prior to surgery through the first 48 hours after surgery)	ja	j'n	j n	j n	j n	j o
Comments						

15. What glucose level does your hospital use as a definition of hypoglycemia?

jm Do not know
jm <40 mg/dL
jm <50 mg/dL
jm <60 mg/dL
jm <70 mg/dL
jm <80 mg/dL
jm Other glucose level (please specify)</pre>

16. What is the bedside glucose level BELOW which your hospital requires a confirmatory laboratory glucose measurement?





j∩ >180 mg/dL

j > 200 mg/dL

no standard (at the discretion of individual physician)

n Other glucose level (please specify)

Treatment Methods

	For patients on an insulin drip, what method do you use to determine the infusion e? (MARK ALL THAT APPLY)
€	No standardized method (at the discretion of the physician)
€	Paper algorithm (e.g., Portland, Yale, Institution-specific)
€	Electronic algorithm designed by institution
€	Commerical computer software (e.g., GlucoStabilizer, EndoTool, Glucommander,)
€	Computerized physician order entry (CPOE)
€	Other (please specify)
	If you answered "commerical computer software" in the above question, please ecify and describe the computer software here.
	What initial insulin regimen does your institution employ as part of your glycemic atrol protocol? (MARK ALL THAT APPLY)
€	No glycemic control protocol has been implemented
€	Continuous infusion of IV insulin
€	Basal/Bolus subcutaneous insulin
€	Bolus IV insulin
€	Combined frequent insulin dosing with oral hypoglycemic agents
é	Frequent bolus/short-acting insulin (e.g. sliding scale)
ē	Other initial insulin regimen (please specify)
	What point-of-care method do you use most often to track glucose values in your spital? (MARK ONLY ONE)
Jn	Glucose meter with arterial blood sample
jn	Glucose meter with venous blood sample
jn	Glucose meter with capillary blood samples only (fingerstick)
jn	Whole blood/plasma sample processed in CENTRAL laboratory
jn	Whole blood/plasma sample processed in SATELLITE laboratory
jn	Other method (please specify)
-	

Monitoring the Success of Your TGC Program

	23. What data collection tools are available for you to extract and analyze information related to glucose management at your institution? (MARK ALL THAT			
ΑP	PLY)			
ê	No data collection tools currently available			
ē	Manual data collection and analysis			
é	Non-commercial, in-house software			
é	Commercial computer software			
é	Submit data to an outside source for analysis			
é	Other (please specify)			
	If you answered "commerical compute ase specify and describe the software h			
	What outcome metrics does your institucemic control/glucose management pro			
ê	No metrics in place	É	Patient mortality	
é	Total length of stay	é	Post-operative infection rate	
é	ICU length of stay	é	Ventilator-acquired pneumonia	
é	Frequency of hypoglycemia	é	Ventilator days	
é	Frequency of hyperglycemia	é	Patient care costs	
É	Average glucose by unit	É	Infection rates	
é	Average glucose by patient	é	Calculate percent within, above, or below specified limits	
ê	Other (please specify)			
(e. rou jn jn jn	Would you or do you find it valuable to l g., average, percentage of glucose mea utinely to help monitor your patients and Yes No Do not know	sur	rements within target range, etc.)	

27. If it could be achieved safely, please provide the LOWER LIMIT of the glucose target range that you believe would achieve the greatest patient benefits for ICU, Non-ICU, and Perioperative patients? ICU. LOWER LIMIT of Target Range (mg/dL) Perioperative. LOWER LIMIT of Target Range (mg/dL) Perioperative. LOWER LIMIT of Target Range (mg/dL) Other (presen specify the patient population and the LOWER limit of the target range). LOWER LIMIT of Target Range (mg/dL) 28. If it could be achieved safely, please provide the UPPER LIMIT of the glucose target range that you believe would achieve the greatest patient benefits for ICU, Non-ICU, and Perioperative patients? ICU: LOWER LIMIT of Target Range (mg/dL) Non-ICU: LOWER (mg/dL) Non-ICU: LOWER LIMIT of Target Range (mg/dL) Perioperative LOWER LIMIT of Target Range (mg/dL) Other (presen specify the LOWER LIMIT of Target Range (mg/dL) Other (presen specify the LOWER LIMIT of Target Range (mg/dL) 29. What tools would you choose to safely support your ability to achieve the target ranges? (MARK ALL THAT APPLY) © Do not know Insulin-dosing talculation software Automated glucose maniforing system Reporting system that generates automate glucose reports Commercial vendor that summarizes glucose data and provides summary reports to hospitals None of these We have everything we need to achieve target ranges Other (please specify)	
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None of these We have everything we need to achieve target ranges	Reporting system that generates automatic glucose reports
We have everything we need to achieve target ranges	© Commercial vendor that summarizes glucose data and provides summary reports to hospitals
	€ None of these
© Other (please specify)	We have everything we need to achieve target ranges
	© Other (please specify)

Obstacles to Glycemic Control

30. Please specify the perceived obstacles (if any)) to the full implementation and/or
expansion of glycemic control at your institution.	(MARK ALL THAT APPLY)

€ NEX	No perceived obstacles to implementation or expansion of glycemic control protocols (IF MARKED, PLEASE PROCEED TO THE T QUESTION.)				
ê	Lack of familiarity with current hospital inpatient glycemic control guidelines				
É	Lack of standardized institutional policies related to glucose management				
ē	Lack of local expertise in inpatient diabetes management and hyperglycemia				
ē	Reluctance to have patients endure the pain of frequent fingersticks				
Ē	Concern about causing hypoglycemia				
ē	Not convinced of the benefits of glycemic control				
É	Lack of administrative resources (e.g., quality managers) to implement glycemic control				
É	Lack of clinical resources (e.g., endocrinologists, certified diabetes educator) to deliver the care				
É	Concern about the accuracy of point-of-care glucose meters to guide glycemic control care				
É	Lack of physician endorsement				
É	Lack of nursing endorsement				
É	Lack of financial resources				
ē	Other (please specify)				
31	Please provide any additional comments on glycemic control implementation,				
ma	inagement, or outcomes below.				
	_				

utomated Blood Glucose Mon	automated Blood Glucose Monitoring System		
We are currently exploring the development of an type of system.	automated, glucose monitoring system. The following questions apply to this		
32. If a real-time, automated glucose monitoring system was available, how interested would you be?			
j _∩ Very interested	j_{Ω} Not at all interested		
$j_{\widehat{\square}}$ Somewhat interested	jn Do not know/No opinion		
33. Do you reel having a real-till	ne, automated glucose monitoring system with tren		
data would help increase your s	ne, automated glucose monitoring system with trenduccess rate for achieving the targeted ranges?		
data would help increase your s			
data would help increase your sign Yes jn No			

Ē	Would not effect how we manage our diabetes/hyperglycemia inpatients (IF ANSWERED, PROCEED TO QUESTION #37.)
Ē	Do not know
ē	Measure more frequently (e.g., hourly, every 2 hours)
ē	More aggressive with glucose target ranges
ē	Other
Con	nments

35. If you had an a	automated glucose monitoring system that would allow frequent
glucose measuren	nents at the bedside, please indicate the <u>LOWER LIMIT</u> of the
target range that y	you would implement?
ICU: LOWER LIMIT of	
Target Range (mg/dL) Non-ICU: <u>LOWER LIMIT</u>	
of Target Range (mg/dL)	
Perioperative: LOWER	
<u>LIMIT</u> of Target Range (mg/dL)	
Other (please specify the	
Other patient population and the LOWER limit of	
target range) <u>LOWER</u>	
LIMIT of Target Range	
(mg/dL)	
36. If you had an a	automated glucose monitoring system that would allow frequent
glucose measuren	nents at the bedside, please indicate the <u>UPPER LIMIT</u> of the
target range that y	you would implement?
ICU: <u>UPPER LIMIT</u> of	
Target Range (mg/dL) Non-ICU: <u>UPPER LIMIT</u> of	
Target Range (mg/dL)	
Perioperative: <u>UPPER</u>	
<u>LIMIT</u> of Target Range (mg/dL)	
Other (please specify the	
patient population and the UPPER limit of target	
range): <u>UPPER LIMIT</u> of	
Target Range (mg/dL)	
37. Is it your hosp	ital's standard protocol to use a low-dose, (e.g., 2 units of
Heparin/1 ml of sa	aline) heparin flush solution in your arterial line pressure bags in
order to keep the	
jn Yes	
jn No	
†n Do not know	
,	
Comments	
38. Are there any	plans in the next 12 months to change this protocol and move to a
saline-only flush s	olution in your arterial line pressure bags?
jn Yes	
jn No	
jn Do not know	
Comments	

39. What other e survey (if any)?	experts within your hospital helped to gather information for this

Thank you

40. Please enter the mailing address below of where you would like to receive your Starbucks gift card (if different than the information entered at the beginning of the survey). Thank you!

Hospital Name (if applicable)	
Name	
Address	
City	
State	
Zip	

Thank you for taking the time to complete this survey. Please email us if you have any questions about the material presented at tgcsurvey@epsilongroup.com.

Please click "Done" below to submit your survey results.