

Leveraging People, Process, and Technology Optimizing Glycemic Management

Dave Cooper, BSN, RN Shelley Brown, BSN, RN

10.25.2023

SOP-34 Marketing Rev 1.0 | SOP-34 Marketing Rev 1.0 | Copyright 2023 Glytec, LLC. All Rights Reserved. Proprietary and Confidential



- 2023: Year in Review
- Collaborating on Change Management
 - Review of new resources available to customers
- Looking Ahead: Glucommander Product Roadmap



2023: A Year in Review

Highlights

3

- Relaunched GlucoMetrics
- Released Glucommander 3.5.3.0
- Performed upgrades for 13 hospitals
- Expanded use of Glucommander at 25 hospitals











Other Key Highlights

Uniting teams around patient safety

- Treated more than 100,000 patients on Glucommander with over 369K patient days
- Achieved a rate of 0.21% patient days <40mg/dL</p>
 - Non-Glucommander/usual care data is typically 5-10x higher
- Fully eliminated (0%!) severe hypoglycemia <40mg/dL for patients treated on Glucommander at 132 facilities

Looking Ahead: Our Journey Together





Collaborating on Change Management

Change management is sprawling, and incorporates many different areas including:

- Institutional support & governance structure
- Data & analytics
- Standardization & workflows
- Education/engagement plans

Glytec's Blueprint for Success

Based on this framework and our experience working with partners of varying sizes at varying stages in their glycemic management journey, we've created a **Blueprint for Success**.

Core Elements:

The Right Mindset: This is a journey: not a switch

- It requires all the same change management of any other clinical practice change
- It will take time
 - SubQ optimization may happen slowly, with outcomes less noticeable than IV at first
- Ultimately, goals aligned with patient safety as paramount

A Clear Path

- Rooted in best practice but customizable based on your goals
- And likely, you've already taken many of the steps in the pathways identified (and Glytec's here to walk with you)



We're Here to Help



Andrew Schwier, BSN, RN aschwier@glytecsystems.com



Sylvia Elledge, BSHFP, RN, CPPS selledge@glytecsystems.com



Kerri Doucette, MSN, RN, RDN, CDCES

kdoucette@glytecsystems.com



Tiffany Young, BSN, RN, CDCES

tyoung@glytecsystems.com



Dave Cooper, BSN, RN

dcooper@glytecsystems.com

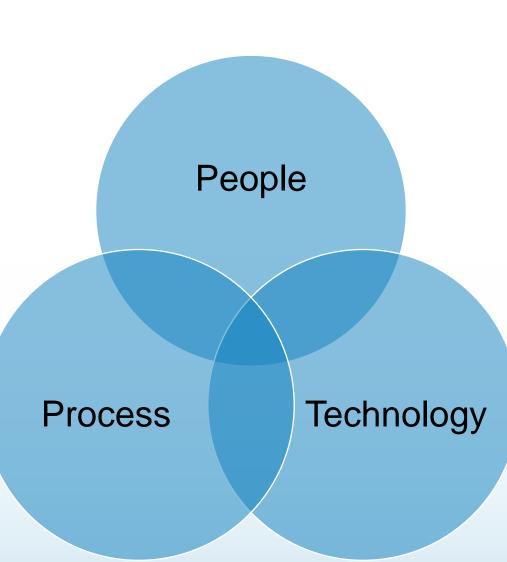


8

Opportunities & Available Resources

All new in the last year

9





Building Engagement/Buy-In

 Communicating the "why" can be an essential part of building engagement with your team, and Glytec has created several resources to aid in the process

Solution-Oriented Resources

- Position Statement Template
- Internal announcement templates for pre- and post- expansion/upgrade projects
- Framework for Improvement Presentation for an executive audience

Want access to these resources? Reach out to your CCSM! Why Optimal Glycemic Management Matters Our Commitment to Patient Health and Safety

OUR WHY, AT-A-GLANCE

Contextualize your position statement by starting with your key takeaways. We've included a sample framework (why me, now, us) as well as sample language to get you started.

Why me?

Glycemic management, including the utilization of insulin in the hospital, is complex and is best optimized through a team-based approach.

Why now?

Centers for Medicare and Medicaid Services has made it clear that severe hypoglycemia related to insulin is hospital harm and should be a never event.

Why us?

We have identified insulin management as a top patient safety opportunity at our institution.

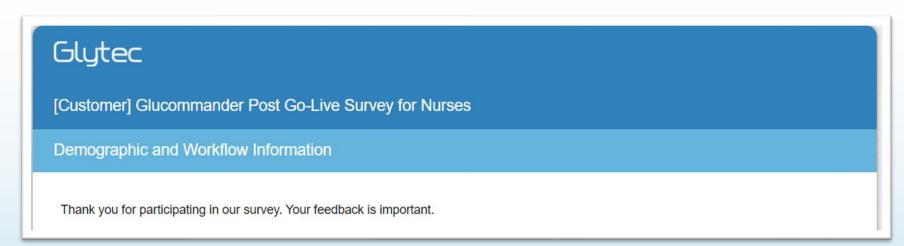


Encouraging Great Ideas to Trickle Up

 Great ideas can come from anywhere, but how do you catalogue, assess, and prioritize those ideas when resources are limited?

Solution-Oriented Resources

- Standard optimization surveys available
 - Surveys tailored for nurses and providers/pharmacy
 - Where to focus optimization efforts





Fostering a Stronger Understanding of Data & Analytics

 Data and analytics play a key role in driving program optimization, but different people have different levels of understanding.

Solution-Oriented Resources

- GlucoMetrics tool kit including:
 - Getting Started with GlucoMetrics user guide, checklist
 - Overview videos
 - Release notes
- Site-specific training presentations
 - Available at your request, led by your CCSM
- Data review meetings with CCSM
 - Also available with our CMO by request





Training your Team

 Training is key to proper usage of Glucommander, but requires time away from the floor. It can also be challenging to when turnover is high.

Solution-Oriented Resources:

Based on feedback from thousands of evaluations, Glytec is streamlining training for all users – *both new and existing*

For Existing Users:

- Only trained on changes
 - Tip sheets available (IV, Transition, SubQ) detailing changes

For New Users:

- All modules have been shortened, in some cases significantly
 - Examples:
 - IV and SubQ end user trainings were 50 minutes, now 30 20 minutes savings each
 - Super user trainings for IV and SubQ shorter now, too

97 New or Updated Training Assets for 3.5.3.0



Process - Education

14

Training your Team – Just in Time

 Just-in-time training can play an integral role in the ongoing support of teams, but it needs to be easy to find, easy to access, and easy to digest. Same for high-priority documents like downtime forms.

Solution-Oriented Resources:

Expanded library of support documentation

▲ IV Videos	▲ IV Practices	SubQ Practices	Completed Downtime Form Examples instead of eLearning Modules
Intiate IV Patient Demo (04:41) IV Meal Bolus Administration Demo (02:24) IV Cancel Meal Demo (00:48) Treat Hypoglycemia Demo (03:56) Void Blood Glucose Demo (01:19) Edit Multiplier Demo (01:04) Click <u>HERE</u> to download all videos	To access the practices from the IV End User eLearning Module, download practices here. Note: You should complete the practices only after you have reviewed the online module or watched the corresponding video demonstration. <u>Initiate IV Patient on Glucommander</u> <u>Treat Hypoglycemia in Glucommander IV</u> <u>D10W Hypo Treatment</u> <u>Oral Carbs Hypo Treatment</u> <u>Meal Bolus Administration</u> <u>Edit Multiplier</u>	Note: You should complete the practices only after you have reviewed the online module or watched the corresponding video demonstration. Bedtime Snack Edit SubQ Dose Hypoglycemia Blood Glucose Entry Initiate Patient in Glucommander Void Basal Void BG	of eLearning Modules <u>IV Downtime Form Example</u> <u>Basal, Bolus + Correction SubQ Downtime Form</u> <u>Example</u> <u>Basal + Correction SubQ Downtime Form Example</u>
	Edit the Patient's Weight Practice Void BG		



Training your Team – Providers

• Different people learn differently, and it's important to meet people where they're at.

Solution-Oriented Resources

- Developed additional content to support a blended learning approach
 - Micro and nano learnings (videos, CBLs)
 - Additional tip sheets
 - Instructor-led training materials

Training your Team – Diabetes 101

 A good foundation of the basics of inpatient diabetes management is essential for Glucommander optimization, but there are varying levels of understanding that must be accounted for.

Solution-Oriented Resources:

- Inpatient Diabetes Management module
- Basics of Carb Counting module
 - Importance of meal triad
- New training decks:
 - Inpatient Standards of Care in Glycemic Management and Leveraging Glucommander to Meet Them
 - Meal Triad



Process - Education

Training your Team – Super Users

 Super users are key to the ongoing optimization of Glucommander on the floor, and their ongoing education can't be short-changed.

Solution-Oriented Resources:

New Glucommander IV dashboard training

Glucommander IV Dashboard:

Glucommander IV: Reach out to the nurse if=>
BG checks > 15 minutes past due
Hypoglycemia BG recheck is past due

IV Insulin Infusion Patients (5) 🔥 SubQ Ins			remaining until the		listed patient changes depending on patient status. For example, the background is:	
ENDIV, MACK	MRN: MEVMk4	MedSurg	DOB: 05/23/1957	Next BG Due:	Red when a "BG DUE!" message	
LAST BG: 127 mg/dL (Weiss, Lori)	TARGET RANGE: 120-160 mg/dL NEXT BG DUE: 02/20/2023 at 20:29	(10 Minutes Late) Converting to SubQ Insul		BG DUE!	appears.	
BRADDIX, CHAD	MRN: MBxCd4	MedSurg	DOB: 05/23/1962	Next BG Due:	Amber when a BG entry is due in less than 5 minutes.	
LAST BG: 153 mg/dL (Weiss, Lori)	TARGET RANGE: 120-160 mg/dL NEXT BG DUE: 02/20/2023 at 20:44			4:44		
FITZGERALD, MACK	MRN: MFdMk4	MedSurg	DOB: 05/23/1957	Next BG Due:	White when no blood glucose (BG) entry is due.	
LAST BG: 119 mg/dL → (Weiss, Lori) LAST INSULIN RATE: 0.9 units/hr	TARGET RANGE: 120-160 mg/dL NEXT BG DUE: 02/20/2023 at 21:29			50:37		
					-	

Communicating Across Shifts

 Clear and concise communication across shifts is key and must fit into standing workflows in order to be effective.

Solution-Oriented Resources:

Glucommander Shift Report Checklist

GLUC	COMMANDER IV REPORT CHECKLIST:
PATIE	ENT NAME:
PATIE	ENT MRN:
LAST B	G RESULT:
WHEN	IS THE NEXT BG DUE?
LAST IN	ISULIN INFUSION RATE RECOMMENDED BY GLUCOMMANDER:
CURRE	INT INSULIN INFUSION RATE ON INFUSION PUMP:
No	te: The Glucommander recommended infusion rate should match the infusion pump rate
ANY HY	POGLYCEMIC EVENTS DURING YOUR SHIFT?
IS THE	RE EVIDENCE THAT THE PATIENT IS READY TO TRANSITION OFF AN INSULIN INFUSION OR ONTO SUBQ INSULIN
CONSIS	STENT BGS BETWEEN 70-180 MG/DL (YES / NO)
LOW V	ARIABILITY IN INSULIN INFUSION RATE (YES / NO)
CRITIC	AL ILLNESS IS RESOLVING (YES / NO)
DKA RE	ESOLVED BASED ON LABS (YES / NO / NA)
HAS TH	IE IV MEAL BOLUS BEEN USED FOR ALL FOOD >30 GRAMS OF CARBS? (YES / NO)
IV MEA	L BOLUS SHOULD BE USED FOR ALL FOOD OR BOLUS TUBE FEEDS > 30 GRAMS TO PREVENT HYPERGLYCEMIA.
HAS TH	IE PATIENT HAD PERSISTENT HYPERGLYCEMIA (BGS ABOVE TARGET RANGE)? IF SO:
•	Is the IV site patent? (Yes / No)
•	Are the blood glucose values trending down? At least 50 mg/dl per hour
	Assess for other causes for insulin resistance
	IE PROVIDER PLACED ANY EDIT ORDERS IN THE PAST 24 HOURS? IF YES, HAVE THE EDITS BEEN COMPLETED IN MMANDER? (YES / NO)
DKA/H	HS ONLY:
•	What is the current Potassium?
•	When is the next serum K lab draw?
	Have dextrose containing fluids been started? (yes / no)

TIME TO

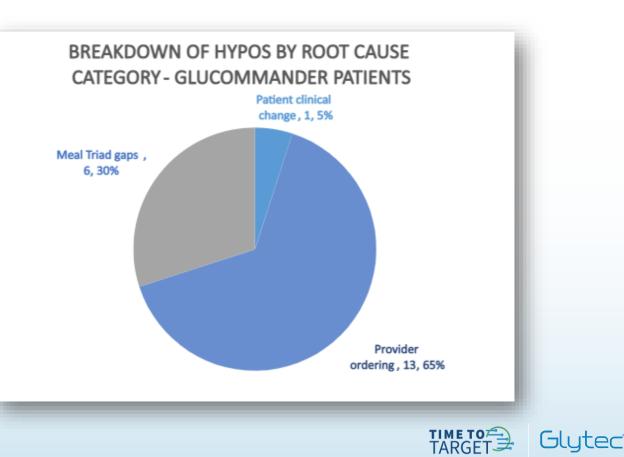
Glytec

Understanding Causes of Hypoglycemia

 You need to be able to fully understand a problem in order to propose a solution. Partnering through case review support, Glytec's team of clinical experts can help you better understand hypoglycemia to drive improvements.

Solution-Oriented Resources:

- Hypoglycemia Resource Tool
- Hypoglycemia RCA Tool



Leveraging Technology

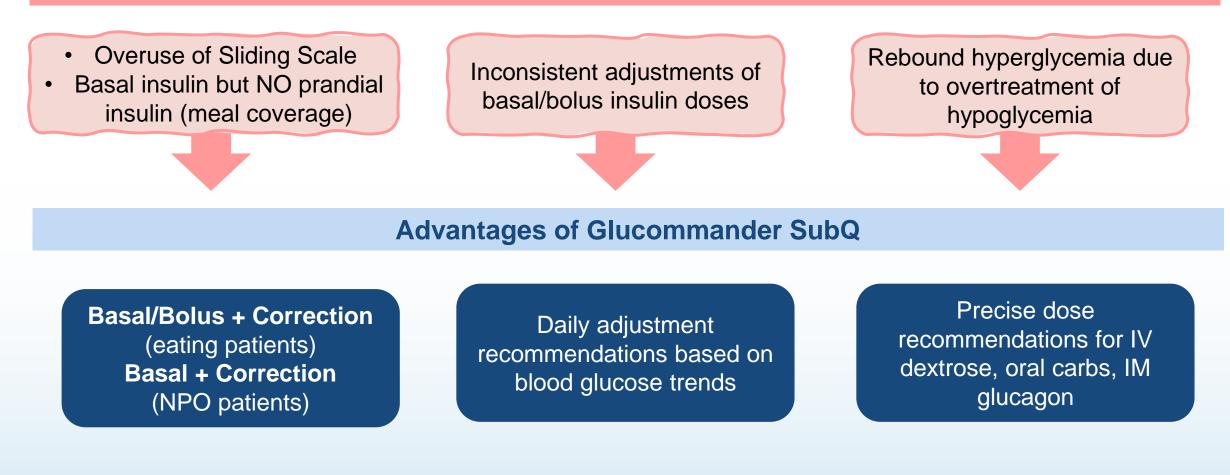
- Glucommander SubQ is a technology-driven approach to Basal Bolus
 - Purpose-built to overcome challenges
 - Designed to help your team meet the Hospital Care Delivery Standards in a standardized, consistent manner





Glucommander SubQ: Purpose-Built

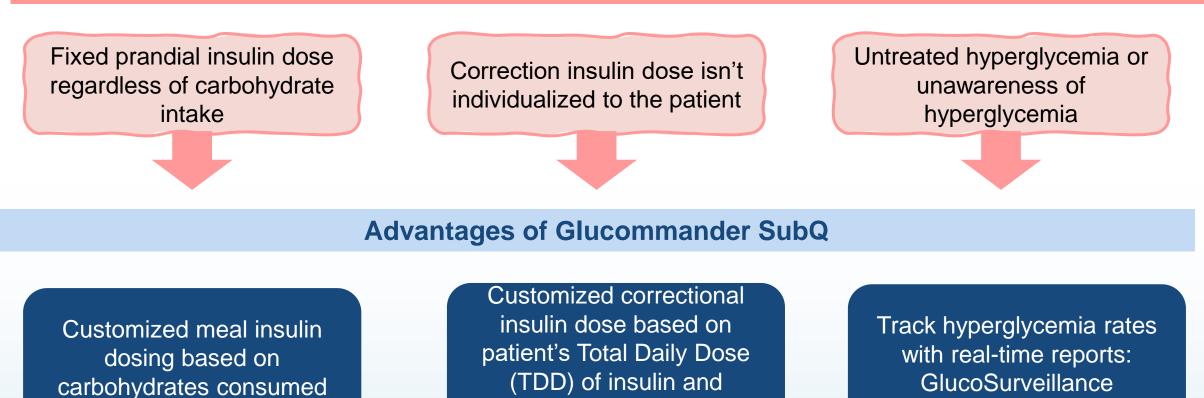
Common Challenges with Insulin Management





Glucommander SubQ: Purpose-Built

Common Challenges with Insulin Management



insulin sensitivity

TARGET Glytec

ITERATIVE CHANGES OVER TIME

GOALS

23

- Make Glucommander easy and intuitive to use
- Reduce opportunity for error
- Enhance safety and efficacy
- Increase nurse and provider engagement

- Orders Initiation and Medication Confirmation Integrations
- Improve user experience (nursing workflows)
- 3.5.0.0 • Enhance hypoglycemia treatments options (Glucagon)
 - Improve safety and efficacy
 - Require use of Meter Max
 - BG Recovery Feature

3.5.1.0

3.5.2.0

- Support multiple time zones
- SmartClick V3 enhancements
- Improve safety Remove custom carb option
- Streamline nurse workflows at transition
- Enhance hypoglycemia treatment options
- Reduce opportunity for error
- 3.5.3.0 Support more flexible order design



Glucommander 3.5.4.0

All

users:

Streamline insulin dose and order set edits Improve visibility of edits Enhance auditability

For Nurses:

- Improve dose and order set edit workflow
- Reduce the need of manual entry of order edits

For Providers:

- Support flexibility of dose and order set edits
- Align Glucommander ordering practices with current provider workflows



Streamline Insulin Dose and Order Set Edits

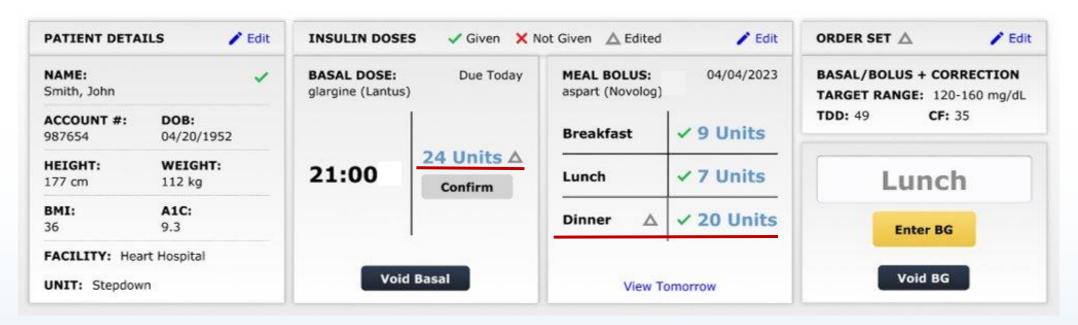
Process order edits through integration

- Glucommander will receive messages for order edits through the interface
- Edit messages will be processed immediately when received
- Glucommander will automatically update the dose or other parameter on the patient detail page
- If Glucommander is unable to process due to a validation failure, a message will be display explaining why the ordered could not be processed



Improve Visibility of Edits

Add Δ icon on patient detail screen to indicate edits





Align Provider Workflow

Initial Ordering

- Custom Basal Dosing
 - Provider will specify the basal dose that will be given with each administration
 - Providers will no longer have to order the total basal dose when selecting BID distribution

Edits

- Provider ordered basal dose and distribution edits will be used for the next recommendation
- New recommendations for order set design that allows the provider to edit the original insulin order instead of using a modification order



Support Flexibility of Dose and Order Set Edits

Dose Edit Prior to Calculation

- Allow basal dose edits to occur prior to Glucommander calculating the next recommendation
- Allow bolus dose edits to occur prior to Glucommander calculating the next recommendation.
 - Breakfast, Lunch and Dinner doses can all be edited at the same time.

Unlock Basal Editing

- Increase the times that basal edits are allowed
- Includes basal dose, distribution and time



Enhance Auditability

Improve Messaging in Glucommander Audit History

- Make audit history messages easier to read and understand
- Update descriptions to allow the user to determine if an edit occurred:
 - Through the manual process or through integration
 - Before Glucommander calculated the recommendation

Description	Date	
Order message processed to edit today's basal dose from x units(s) to x unit(s)	Date/Time Processed	
Description	Date	
Order message processed to edit today's basal dose to x unit(s) prior to system calculation.	Date/Time Processed	



Glytec's eGMS User Experience Goals

- Make Glucommander easier to use and reduce opportunity for error
- Delight providers and nurses
- Reduce cost of training and support

Strategy

- Engage with professional user experience designers and researchers
 - Perform Testing for 3.5.4.0 release
 - Customer engagement on design and validation sessions
 - Access to conduct testing with a Hyperdrive simulator



Thank You!



Shelley Brown BSN, RN

sbrown@glytecsystems.com



Dave Cooper BSN, RN dcooper@glytecsystems.com



Glytec

TIMETO TARGET Journey

SOP-34 Marketing Rev 1.0 | Copyright 2023 Glytec, LLC. All Rights Reserved. Proprietary and Confidential