Use of the eGlycemic Management Solution by Glytec Achieved ADA Glycemic Targets with Low Hypoglycemia for Patients Managed on Subcutaneous Insulin Therapy Melanie Mabrey, DNP, ACNP-BC, BC-ADM, FAANP ; Joseph Aloi, MD; Paul Chidester, MD; Jagdeesh Ullal, MD; Amy B. Henderson, RN, BSN; Raymie S. McFarland, PT; Robby Booth, BS

OBJECTIVE

American Diabetes Association guidelines

Reduction of BG at breakfast was 84 mg/dL, lunch

Graph 2. Glucose Average

recommend a basal bolus correction insulin regimen as the preferred method of treatment for non-critically ill hospitalized patients. The target for premeal blood glucose (BG) of <140 mg/dL and random BG of <180 mg/dL are well defined. However, achieving these targets safely, without hypoglycemia, is challenging. With this study we evaluated glycemic control with fasting and pre-prandial BGs for patients using Glucommander Subcutaneous (GM SubQ) treatment for insulin therapy.

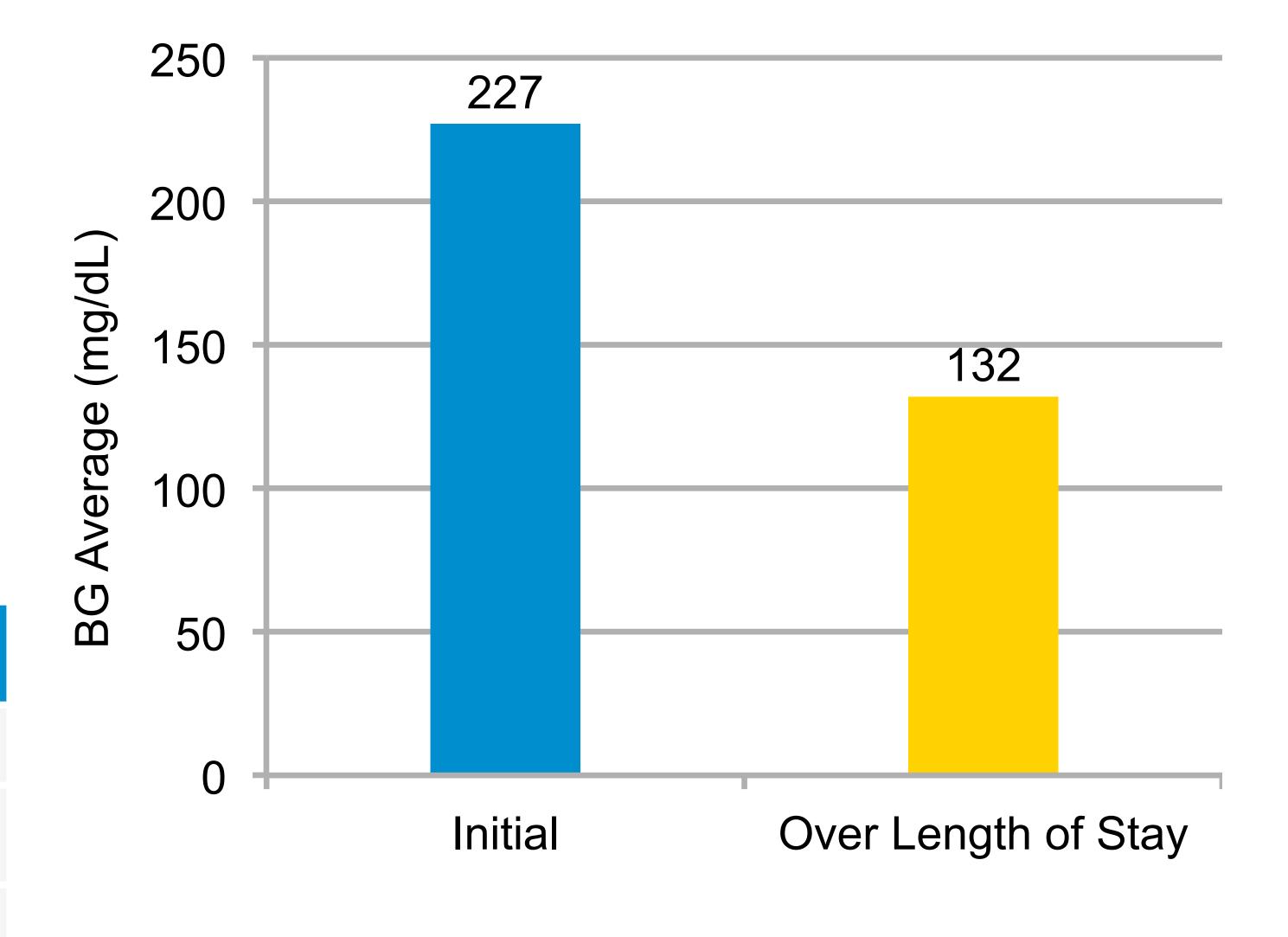


106 mg/dL, dinner 100 mg/dL, and bedtime 105 mg/

Average BG reduction was 98.75 mg/dL. dL. Hypoglycemia <70 mg/dL at breakfast was 2.3%, lunch 1.9%, dinner 3.0% and bedtime 2.0%. Hypoglycemia <40 mg/dL at breakfast was 0.0%, lunch 0.1%, dinner 0.1% and bedtime 0.1%.

Table 1.

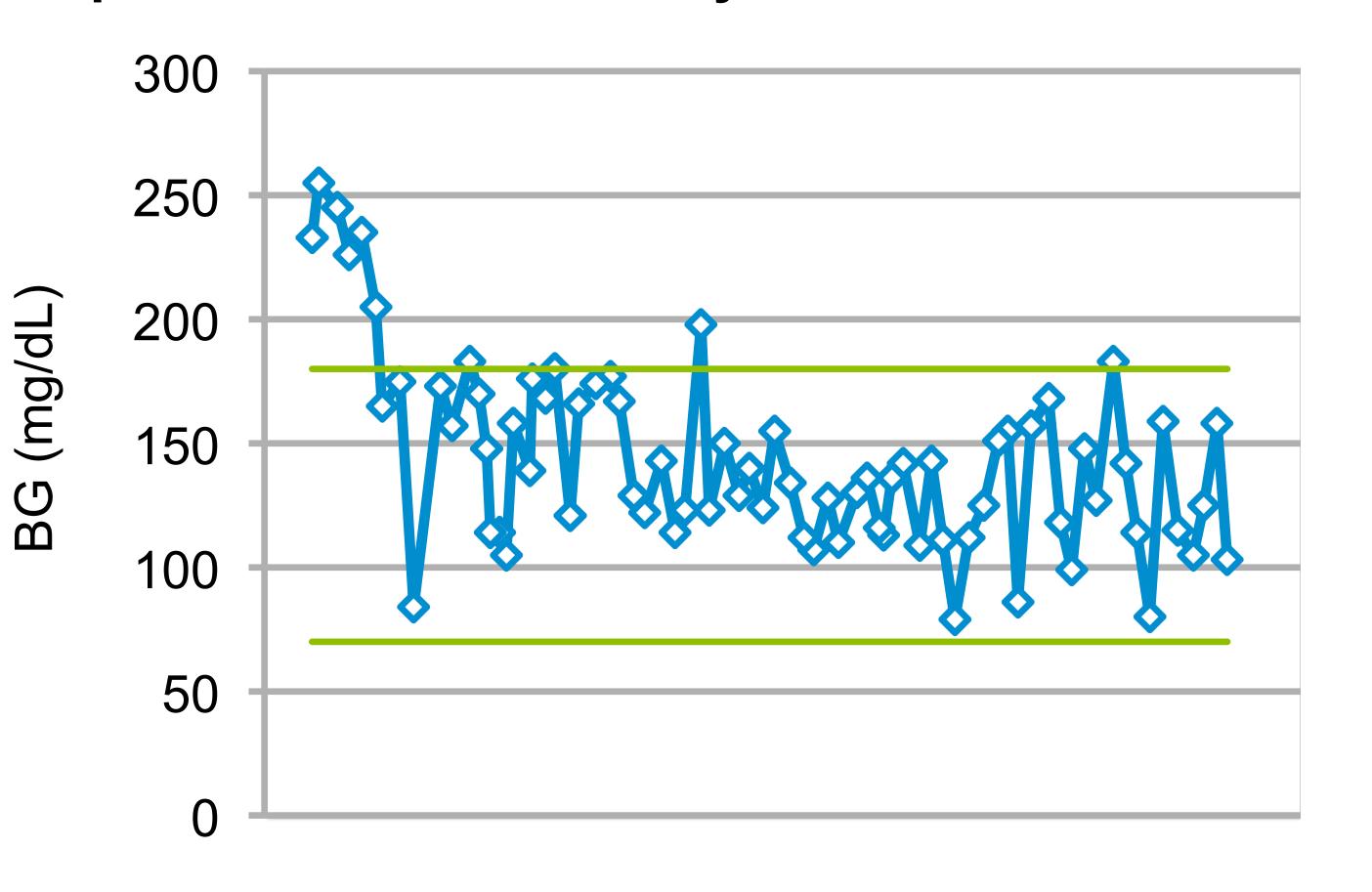
Category	Data
Patients	769
Initial BG Average	227 mg/dL
Glucommander BG Average	132 mg/dL



Graph 3. Patient Case Study

769 patients treated with GM SubQ insulin therapy were evaluated. Qualifying patients had two BGs > 180 mg/dL in 24 hours and required insulin. The target glucose was set at 100-140 mg/dL fasting and pre-prandial. The safety and efficacy was evaluated at the following time points: before each meal (breakfast, lunch, dinner) and at bedtime via (1) BG BG reductions (3) Hypoglycemic averages (2) events <70 mg/dL and <40 mg/dL.

Hypoglycemia < 70 mg/dL – Breakfast	2.3%
Hypoglycemia < 70 mg/dL – Lunch	1.9%
Hypoglycemia < 70 mg/dL – Dinner	3.0%
Hypoglycemia < 70 mg/dL – Bedtime	2.0%
Hypoglycemia < 40 mg/dL – Breakfast	0.0%
Hypoglycemia < 40 mg/dL – Lunch	0.1%
Hypoglycemia < 40 mg/dL – Dinner	0.1%
Hypoglycemia < 40 mg/dL – Bedtime	0.1%





Graph 1. Total Patient Trends

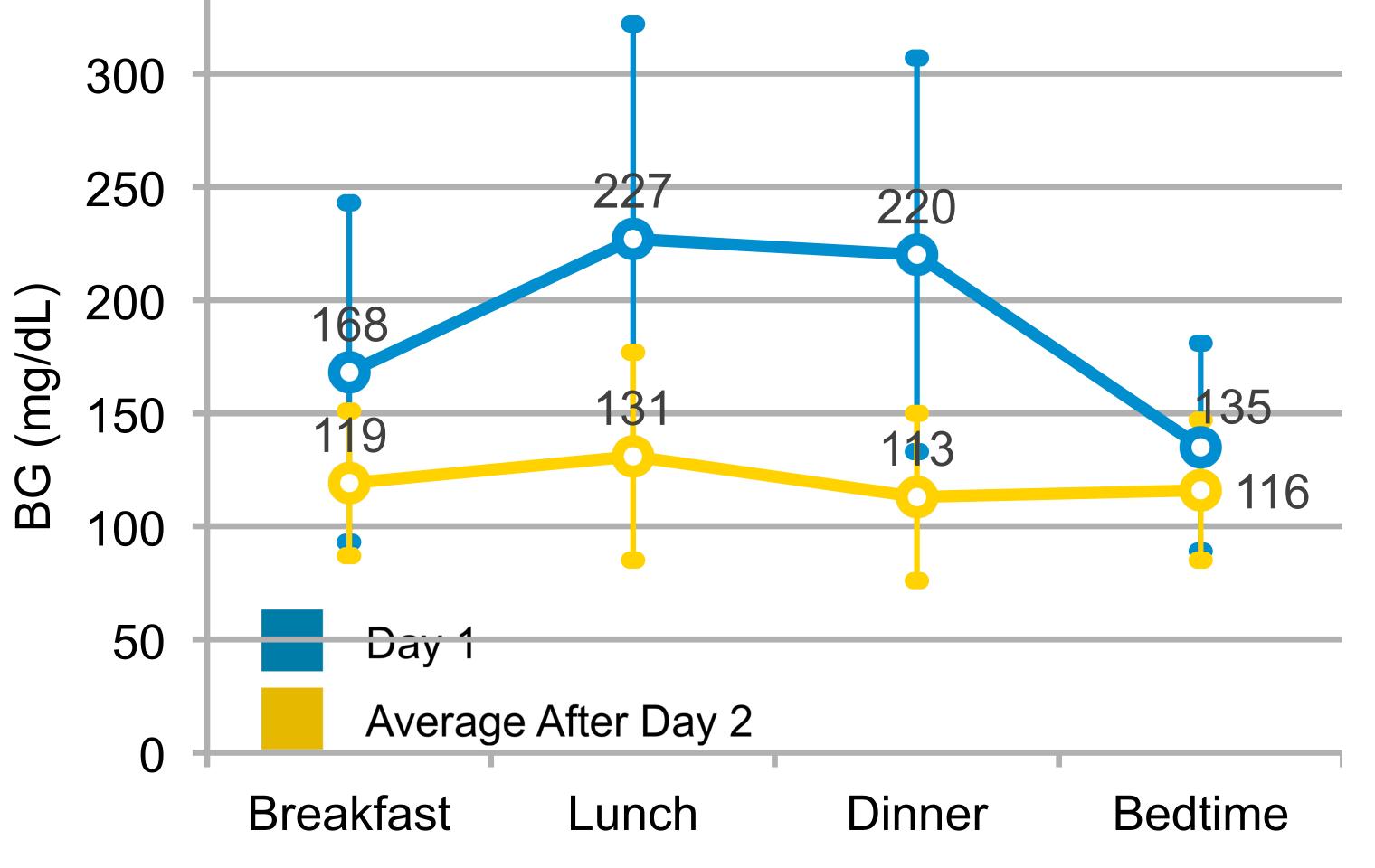
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RESULTS

Patients treated on GM SubQ achieved an average

pre-prandial BG at breakfast of 119 mg/dL, lunch 131

mg/dL, dinner 126 mg/dL and bedtime of 116 mg/dL. Initial BG average was 227 mg/dL. BG average over length of stay was 132 mg/dL.



Patients using GM SubQ achieved prescribed glycemic target at each meal and bedtime with low incidence of hypoglycemia (<70 mg/dL & <40 mg/dL). These results suggest GM SubQ can maintain glucose control in ADA recommended targets without increased risk of hypoglycemia.



Revolutionizing Glycemic Management