OBJECTIVE

The benefits of optimal glycemic control in hospitalized patients have been widely studied and strategies should focus on controlling hyperglycemia and avoiding hypoglycemia. The primary objective of this study was to compare hypoglycemia among critically ill patients at a large academic medical center receiving insulin therapy by usual care versus eGlycemic Management System (eGMS). Secondary objectives were additional glycemic measures.

METHODS

Retrospective, single academic medical center comparison of patients receiving insulin therapy by usual care (UC) before and after implementation of eGMS. UC data collected from 8/17/16 to 1/29/17 and eGMS post go-live from 10/24/16 to 1/29/17.

Patient Demographics

	Usual Care	eGMS
# Patients	2,079	90
Median Age (yrs)	53	60
Gender (%)	Male - 49% Female - 51%	Male - 36% Female - 64%
Height (cm)	163.51	171.64
Weight (kg)	81.76	86.75
BMI	29.02	29.56
A1C	8.97	9.35
GFR	42.88	48.0



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Clinical Impact of Using eGlycemic Management System for Insulin Therapy at a Large Academic Medical Center

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Compared to usual care, eGMS can significantly reduce adverse effects associated with insulin therapy in hospitalized patients while effectively optimizing glucose control in a large academic medical center environment.

% Patients 70-180 mg/dL

% Patients >180 mg/dL

CONCLUSION