Mayo Clinic
Inpatient Hyperglycemia and Diabetes Mellitus:
Management from Admission to Discharge

Participant Guide
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Activity Profile

Inpatient Hyperglycemia and Diabetes Mellitus: Management from Admission to Discharge is designed as an interactive online educational activity comprised of six (6) modules. The activity begins with a brief video introduction and a review of current standards of care, followed by a review of what we currently know about the status of inpatient diabetes care. The course then progresses through a discussion about initial management steps to take at admission, ending with suggestions about discharge planning. Along the way, an overview is given on insulin management, with an opportunity to practice dosing calculations.

Modules:
1. Current Standards for Management of Inpatient Diabetes and Hyperglycemia
2. Epidemiology, Current Status of Inpatient Glycemic Control, and Clinical Inertia
3. Initial Triage and Approach to the Patient
4. Principles of Pharmacologic Management of Hospital Hyperglycemia: Understanding How to Use Insulin
5. Pharmacologic Management of Hospital Hyperglycemia: Practical Application of Insulin Therapy
6. Getting the Patient Ready for Discharge

Participation for CME credit in this activity consists of:
- Reviewing each of the six modules in sequential order and answering “knowledge check” questions throughout
- Participants are permitted up to two attempts and must score 80% or better to complete the activity for CME credit.
- Completion of evaluation

The goal of this course is to provide a high-level overview of care, rather than to delve into every management situation that might be encountered.

Participants are required to progress sequentially from the first module to the next, and not randomly from topic to topic. The modules are designed to be interactive and require participants to respond to questions at the end of each module. Participants must achieve 80% or better on the post-test assessment to successfully complete this activity.

Original Release Date: August 1, 2016, 12:01 a.m.

Credits Expire: July 31, 2018, 11:59 p.m.

Duration/Completion Time: 3 hours (0.5 hours per module)

Upon completion of registration, learners can access the activity via this website: https://ce.mayo.edu/hospital-medicine/node/19995
Prerequisites for Participation

There are no prerequisites for physicians needed prior to participation in this continuing education activity.

Customer Service / Technical Support

For educational activity support, contact Mayo School of Continuous Professional Development directly at telephone 480-301-4580 or email mca.cme@mayo.edu. Standard business hours are Monday – Friday, 8 a.m. – 5 p.m. (MT).

For technical support, contact Mayo Clinic Education Technology Center at 507-266-9087 or email etc@mayo.edu. Standard business hours are Monday – Friday, 8 a.m. – 5 p.m. (CT).
Managing diabetes or hyperglycemia in the hospital setting can be challenging. Inpatients with hyperglycemia generally fall into 3 categories: persons with known diabetes, individuals with newly diagnosed diabetes, and patients who have hyperglycemia due to other causes such as stress from acute illness or due to certain medications like steroids. Regardless of the etiology of hyperglycemia, there is little doubt that uncontrolled hyperglycemia is associated with higher morbidity and mortality.

Previous excitement over the benefits of tight glucose control in the critically ill patient has since been tempered by concerns about the dangers of hypoglycemia that occurs with any attempt to tightly control glucose levels. Despite the controversies that exist regarding inpatient glucose targets, there is agreement among specialty societies that hyperglycemia in the inpatient setting cannot be ignored.

This activity is designed to provide some basic guidance about how to approach management of the patient with hyperglycemia or diabetes in the hospital setting. Our focus is the non-critically ill adult, non-obstetrical inpatient.

**Learning Objectives**

Upon completion of this activity, participants should be able to:

- Discuss current standards of inpatient care for the patient with hyperglycemia or diabetes.
- Review current knowledge of quality of inpatient diabetes care.
- Describe general principles of inpatient management of hyperglycemia and diabetes.
- Demonstrate how to employ insulin therapy in the hospital

**Intended Audience**

This activity is designed for physicians practicing in internal medicine, hospital internal medicine, family practice and general surgery. Any specialists, physician assistants, nurse practitioners, or residents who care for inpatients with hyperglycemia or diabetes may benefit from this activity.

**Disclaimer**

Participation in this Mayo Clinic educational activity does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this activity. You should be aware that substantive developments in the medical field covered by this activity may have occurred since the date of original release.
Continuing Education Credit

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this enduring material for a maximum of 3.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CME Activity Evaluation

The overall CME activity evaluation will be available in the course outline. The CME activity evaluation is brief and will only take a few minutes to complete. Your feedback is very important to us and will be used for planning future online educational programs.

Requesting CME Credit / Record of Attendance

To achieve successful completion of this activity, participants complete the following:

- Review each of the six modules in sequential order and answer “knowledge check” questions throughout
- Participants are permitted up to two attempts and must score 80% or better to complete the activity for CME credit.
- Complete activity evaluation

An electronic Record of Attendance (ROA) will be available in the MSCPĐ registration system, EthosCE. Upon conclusion of the CME activity, participants may claim credit and will receive a confirmation page reflecting the number of credits awarded for the activity and may then download the ROA. A copy of your ROA or a full transcript can be printed at any time from “My Account”. The ROA can be used for requesting credits in accordance with state licensing boards, specialty societies, or other professional associations.
### Faculty

#### Course Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
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#### Technical Advisors

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<th>Name</th>
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<td>Former Instructional Designer</td>
<td>Education Technology Center</td>
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Faculty, Planning Committee and Provider Disclosure Summary

**Inpatient Hyperglycemia and Diabetes Mellitus:**
**Management from Admission to Discharge**

As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of CPD) must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course Director(s), Planning Committee Members, Faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of these relevant financial relationships will be published in activity materials so those participants in the activity may formulate their own judgments regarding the presentation.

Listed below are individuals with control of the content of this program who have disclosed…

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**No relevant financial relationship(s) with industry:**

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This activity is supported in part by educational grants from the following companies in accordance with ACCME Standards:

Lilly  
Medtronic  
Novo Nordisk  
Sanofi-Aventis
References

Module 1 – Current Standards for Management of Inpatient Diabetes and Hyperglycemia


Module 2 – Epidemiology, Current Status of Inpatient Glycemic Control and Clinical Inertia


**Module 3 – Initial Triage and Approach to the Patient**


**Module 4 – Principles of Pharmacologic Management of Hospital Hyperglycemia: Understanding How to Use Insulin**


**Module 5 – Pharmacologic Management of Hospital Hyperglycemia: Practical Application of Insulin Therapy**

None
Module 6 – Getting the Patient Ready for Discharge


