

Managing Diabetes And Hyperglycemia In The Hospital: Focus On The Noncritically Ill Patient

REFERENCES

1. Clement S, Baithwaite SS, Magee MF, et al. Management of diabetes and hyperglycemia in hospitals. *Diabetes Care*. 2004;27:553-591.
2. Umpierrez GE, Isaacs SD, Bazargan N, et al. Hyperglycemia: an independent marker of in-hospital mortality in patients with undiagnosed diabetes. *J Clin Endocrinol Metab*. 2002;87:978-982.
3. Furnary A, Zerr K, Grunkemeier G, Starr A. Continuous intravenous insulin infusion reduces the incidence of deep sternal wound infection in diabetic patients after cardiac surgical procedures. *Ann Thorac Surg*. 1999;67:352-362.
4. Furnary AP, Gao G, Grunkemeier GL, et al. Continuous insulin infusion reduces mortality in patients diabetes undergoing coronary artery bypass grafting. *J Thorac Cardiovasc Surg*. 2003;125:1007-1021.
5. Pomposelli JJ, Baxter JK 3rd, Babineau TJ, et al. Early postoperative glucose control predicts nosocomial infection rate in diabetic patients. *J Parenter Enter Nutr*. 1998;22:77-81.
6. McAlister FA, Majumdar SR, Blitz S, et al. The relation between hyperglycemia and outcomes in 2471 patients admitted to the hospital with community-acquired pneumonia. *Diabetes Care*. 2005;28:810-815.
7. Moghissi ES, Korytkowsk MT, DiNardo M, et al. American Association of Clinical Endocrinologists and American Diabetes Association consensus statement on inpatient glycemic control. *Diabetes Care*. 2009;32:1119-1131.
8. Wesorick D, O'Malley C, Rushakoff R, et al. Management of diabetes and hyperglycemia in the hospital: a practical guide to subcutaneous insulin use in the noncritically ill, adult patient. *J Hosp Med*. 2008;3(suppl 5):s17-s28.
9. Inzucchi SE. Management of hyperglycemia in the hospital setting. *N Engl J Med*. 2006;355:1903-1911.
10. Qaseem A, Humphrey LL, Chou R, et al. Use of intensive insulin therapy for the management of glycemic control in hospitalized patients: a clinical practice guideline from the American College of Physicians. *Ann Intern Med*. 2011;154:260-267.
11. Umpierrez GE, Andres P, Smiley D, et al. Randomized study of basal-bolus insulin therapy in the inpatient management of patients with type 2 diabetes (RAB-BIT 2 trial). *Diabetes Care*. 2007;30:2181-2186.
12. Baldwin D, Zander J, Munoz C, et al. A randomized trial of 2 weight-based doses of insulin glargine and glulisine in hospitalized subjects with type 2 diabetes and renal insufficiency. *Diabetes Care*. 2012;35:1970-1974.
13. Baldwin D, Apel J. Management of hyperglycemia in hospitalized patients with renal insufficiency or steroid-induced diabetes. *Curr Diab Rep*. 2013;13:114-120.
14. Schnipper JL, Ndumele CD, Liang CL, Pendergrass ML. Effects of a subcutaneous insulin protocol, clinical education, and computerized order set on the quality of inpatient management of hyperglycemia: results of a clinical trial. *J Hosp Med*. 2009;4:16-27.

15. Maynard G, Lee J, Phillips G, et al. Improved inpatient use of basal insulin, reduced hypoglycemia, and improved glycemic control: effect of structured subcutaneous insulin orders and an insulin management algorithm. *J Hosp Med.* 2009;4:3-15.
16. Wesorick DH, Grunawalt J, Gianchandani R. Improving glycemic control in noncritically ill hospitalized patients [abstract]. *J Hosp Med.* 2009;4(suppl 1):63-64.
17. Umpierrez GE, Smiley D, Hermayer K, et al. Randomized study comparing a Basal-bolus with a basal plus correction insulin regimen for the hospital management of medical and surgical patients with type 2 diabetes: basal plus trial. *Diabetes Care.* 2013;36:2169-2174.
18. Glycemic Control Resource Room Project Team. Glycemic Control Resource Room. Available at: <http://www.hospitalmedicine.org/ResourceRoomRedesign/GlycemicControl.cfm><http://www.hospitalmedicine.org/ResourceRoomRedesign/GlycemicControl.cfm>. Accessed October 7, 2013.
19. Centers for Disease Control and Prevention. National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation. National Diabetes Fact Sheet, 2011. Available at: http://www.cdc.gov/diabetes/pubs/pdf/ndfs_2011.pdf. Accessed May 17, 2011.
20. American Diabetes Association. Executive Summary: Standards of medical care in diabetes-2011. *Diabetes Care.* 2010;34(suppl 1):s11-s61. Available at: http://care.diabetesjournals.org/content/34/Supplement_1/S4.full.pdf. Accessed May 17, 2011.
21. O'Malley CW, Emanuele M, Halasyamani L, et al. Bridge over troubled waters: safe and effective transitions of the inpatient with hyperglycemia. *J Hosp Med.* 2008;3:55-65.
22. Underwood et al. *Diabetes Care* 2014 Mar; 37(3):611-616.
23. Cancienne et al. *Spine J.* 2017 Aug;17(8):1100-1105.
24. Rationalization, Development, and Implementation of a Preoperative Diabetes Optimization Program Designed to Improve Perioperative Outcomes and Reduce Cost. Setji et al. *Diabetes Spectrum.* Vol 30. Num 3, Summer 2017. 217-223.
25. Umpierrez, *Schwartz Endo Practice* 2014 Sep;20(9):933-44
26. Schwartz, DeFronzo, Umpierrez *Postgraduate Medicine* 2015;127(2):251-257
27. Umpierrez, Gianchandani, *Diabetes Care* 2013 Nov;36(11):3430-5
28. Heise, Kaplan, Haahr. *J Diabetes Sci Technol.* 2017 Sep 1. E pub.
29. Heise, Norskov et al. *Diabetes Obes Metab.* 2017 Jul;19(7):1032-1039
30. Russell-Jones, Gall, et al. *Nutr Metab Cardiovasc Dis* 2015 Oct;25(10)898-905
31. Rodbard, Gough et al. *Endocr Pract.* 2014 Apr;20(4):285-92
32. Mathieu, Bode et al. *Diabetes Obes Metab.* 2018 Jan 8.
33. Centers for Disease Control and Prevention. National Diabetes Statistics Report, 2017.
34. Umpierrez GE, Hellman R, Korytkowski MT, et al. Management of hyperglycemia in hospitalized patients in non-critical care setting: an endocrine society clinical practice guideline. *J Clin Endocrinol Metab.* 2012;97(1):16-38.
35. Umpierrez GE, Endocrine Society. Management of hyperglycemia in hospitalized patients in non-critical care setting: an endocrine society clinical practice guideline
36. Umpierrez GE, Reyes D, Smiley D, et al. Hospital discharge algorithm based on admission HbA1c for the management of patients with type 2 diabetes. *Diabetes Care.* 2014;37(11):2934-2939.

37. Martin ET, Kaye KS, Knott C, et al. Diabetes and Risk of Surgical Site Infection: A Systematic Review and Meta-analysis. *Infect Control Hosp Epidemiol*. 2016;37(1):88-99
38. Schuster JM, Rehtine G, Norvell DC, Dettori JR. The influence of perioperative risk factors and therapeutic interventions on infection rates after spine surgery: a systematic review. *Spine (Phila Pa 1976)*. 2010;35(9 Suppl):S125-137.
39. Godoy DA, Di Napoli M, Biestro A, Lenhardt R. Perioperative glucose control in neurosurgical patients. *Anesthesiol Res Pract*. 2012;2012:690362.
40. Han HS, Kang SB. Relations between long-term glyceimic control and postoperative wound and infectious complications after total knee arthroplasty in type 2 diabetics. *Clin Orthop Surg*. 2013;5(2):118-123.
41. ADA. Diabetes Care in the Hospital. In. Vol 39: Diabetes Care; 2016:(Suppl. 1): S99-S104.