Roche Diabetes



Recommended algorithm for screening hyperglycemia in patients admitted to hospital during these times by Ministry of Health & Family Welfare, Government of India.

A suggested algorithm for screening of hyperglycemia in patients admitted to a special care facility

Step 1







Do a random capillary blood glucose (CBG) at time of hospital admission

Step 2







Perform a pre-meal and 2-hr post-meal CBG with the first major meal in the hospital

Step 3







Send blood for FPG and HbA1c next morning if lab facilities are available

Step 4

Monitor (CBG), BBF, BL, BD and AD for at least 2 days for underlying hyperglycemia if any of the test values are high

Random CBG ≥ 180 mg/dl Pre-meal ≥140 mg/dl Post-meal ≥180 mg/dl FPG ≥110 mg/dl HbA1 ≥6.0%

Step 5

Initiate pharmacotherapy if any of the test values meets the given glycemic thresholds

Random CBG ≥ 250 mg/dl Pre-meal ≥150 mg/dl Post-meal ≥200 mg/dl FPG ≥126 mg/dl HbA1 ≥6.5%

Diabetic Diet (if Values above cut-off range of Step 4)

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If BG level is ≥250 mg/dl check urine/blood ketone levels if positive, immediately consult endocrinologist/physician.

Consider repeating monitoring (even when initial blood glucose monitoring is normal) when:

- a) steroids or drugs with a potential to affect glycemic status are initiated
- b) there is an increase in severity of illness (to account for stress hyperglycemia)

Blood glucose monitoring strategy for individuals with no evidence of stress hyperglycemia or undiagnosed diabetes at the initial screen

No hyperglycemia at admission





Severity of illness increases





Patient is initiated on steroids

Re-initiate blood glucose monitoring BBF, BL, BD, AD for at least 2 days, which can be decreased to twice a day if values are normal

High Risk individuals



Cardiovascular

disease



Obese



Age > 50 years

Monitor blood glucose twice a day every 3-4 days

A patient with normal initial glycemic profile may develop stress hyperglycemia during the course of illness. Glucocorticoids as a treatment of primary disease may also contribute to hyperglycemia in such an individual.

Glycemic assessment using blood glucose monitors should be an ongoing dynamic process and not a one-time event.

Clinical guidance on diagnosis and management of diabetes in COVID-19 patient management facility (version 2.0). Available at https://www.mohfw.gov.in/pdf/ClinicalGuidanceonDiagnosisandManagementofDiabetesatCOVID19 PatientManagementfacility.pdf. Last accessed on 16th June 2021.

Abbreviations: BBF: Before breakfast, BL: Before lunch, BDN: Before dinner, ADN: After dinner