

DEDER GENERAL HOSPITAL

Outpatient Department (OPD)

**Standard Treatment Guideline
(STG) Utilization Monitoring Report**

**Diabetes Mellitus (DM)
Management**

4th Quarter Report - July 2017 E.C.

Prepared by: Quality Improvement Unit

**July 2017 E.C.
Deder, ETHIOPIA**

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1. Executive Summary

This report presents the findings of the fourth-quarter audit of adherence to the Standard Treatment Guidelines (STG) for Diabetes Mellitus (DM) management at Deder General Hospital Outpatient Department. A total of 10 patient charts were reviewed for compliance against 12 critical parameters outlined in the national STG. The audit revealed **100% compliance** across all parameters, indicating exemplary adherence to evidence-based practices and clinical protocols.

The findings affirm the hospital's commitment to high-quality diabetes care and underscore the effectiveness of ongoing quality improvement initiatives. This report includes detailed methodology, results, discussion, recommendations, and a plan to sustain and expand this level of excellence.

2. Purpose

The primary purpose of this audit was to evaluate the level of adherence to the National Standard Treatment Guidelines in the management of Diabetes Mellitus. The monitoring process is designed to ensure uniformity, safety, and quality of care for diabetic patients attending Deder General Hospital OPD.

3. Introduction

Diabetes Mellitus is a chronic metabolic disorder characterized by elevated blood glucose levels resulting from defects in insulin secretion, insulin action, or both. Proper management is essential to prevent complications such as retinopathy, nephropathy, neuropathy, and cardiovascular disease.

The Ethiopian Ministry of Health, through its Standard Treatment Guidelines (STG), provides comprehensive protocols for managing DM to ensure standardized, evidence-based, and high-quality care. Regular monitoring of adherence to these guidelines is critical to identify gaps and strengthen care delivery.

4. Aim

To systematically assess and document healthcare providers' adherence to STG in DM management and facilitate ongoing quality improvement in clinical practice.

5. Objectives

- To measure compliance with 12 critical STG parameters for diabetes care.
- To identify any deviations from recommended practices.
- To provide feedback and recommendations based on audit findings.
- To establish an action plan for continuous quality improvement.

6. Methodology

Study Design

A descriptive cross-sectional retrospective audit of patient medical records was conducted focusing on DM management in the outpatient setting during July 2017 E.C.

Inclusion Criteria

- Adult patients aged 18 years or older.
- Patients with a confirmed diagnosis of Type 1 or Type 2 Diabetes Mellitus.
- Patients who received outpatient management during the reporting period with fully documented records.

Exclusion Criteria

- Patients with gestational diabetes or other specific diabetes forms.
- Incomplete or missing medical records.
- Patients treated exclusively in inpatient or emergency settings.

Sampling Method

A purposive sampling technique was employed to select 10 patient charts that met the inclusion criteria for detailed review.

7. Data Collection and Analysis

Data was collected using a structured audit checklist reflecting the 12 key parameters in the national STG. Each parameter was scored as "Compliant" or "Non-Compliant" based on documentation and observed clinical practice.

Data analysis involved calculating the compliance rate as the percentage of compliant cases out of the total. Descriptive statistics summarized overall adherence and identified any areas needing attention.

8. Assessment Criteria

| S.No | Parameter | Description |
|------|---|---|
| 1 | Diagnosis Confirmation | Diabetes type correctly identified and documented |
| 2 | Baseline Blood Glucose and HbA1c | Relevant glucose metrics recorded as per guidelines |
| 3 | Treatment Initiation | Appropriate therapy initiated based on diagnosis |
| 4 | Medication Dosing | Insulin/oral agents dosed accurately per STG |
| 5 | Diabetic Ketoacidosis (DKA) Management | Managed according to protocol where applicable |
| 6 | Blood Glucose Monitoring Plan | Monitoring frequency and methods documented |
| 7 | Dietary and Exercise Counseling | Counseling provided and recorded |
| 8 | Foot Care and Eye Examination | Screening and documentation performed |
| 9 | Comorbid Condition Management | Addressed following STG recommendations |
| 10 | Regular Follow-up and HbA1c Monitoring | Scheduled and documented routine follow-up |
| 11 | Hypoglycemia Risk Assessment | Evaluated and preventive measures implemented |
| 12 | Patient Education and Treatment Adherence | Documented patient instruction and adherence evaluation |

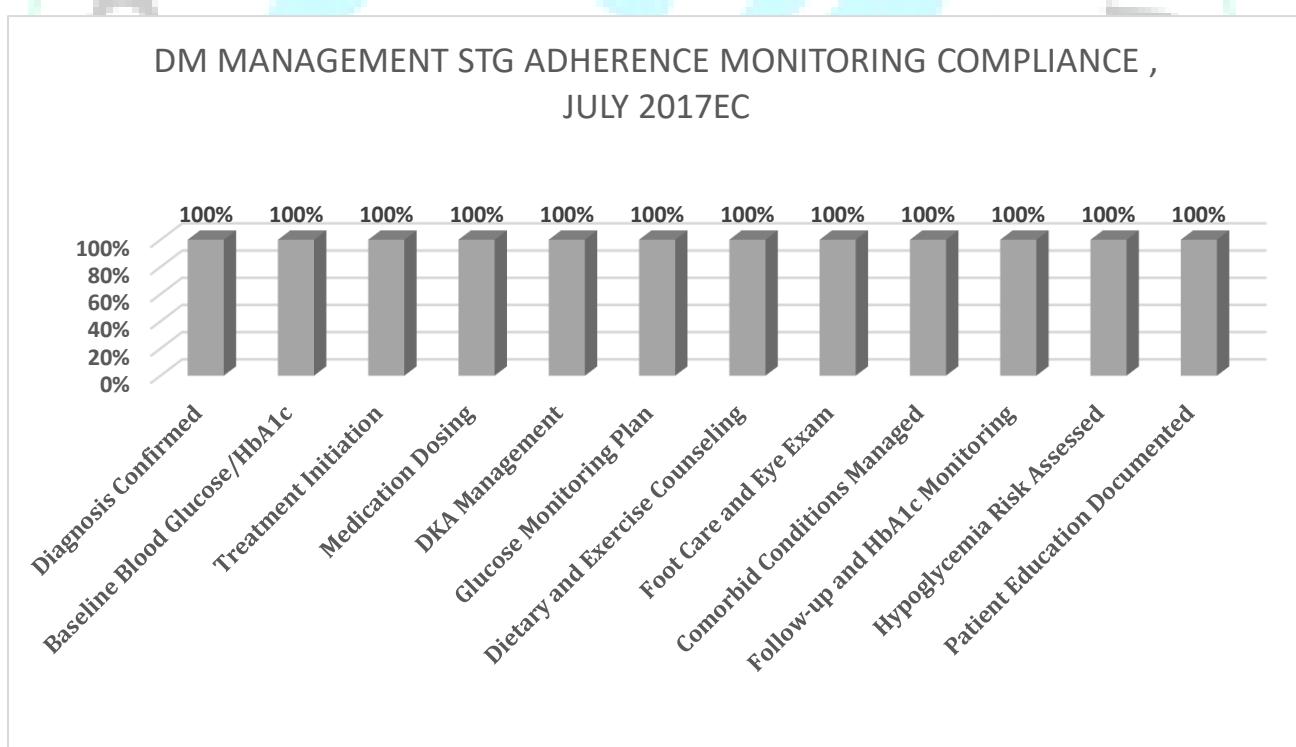
9. Results

All 10 charts met every parameter indicating **100% compliance** for the quarter. This includes critical aspects such as diagnosis confirmation, appropriate treatment initiation, blood glucose monitoring, and patient education.

| Parameter | Compliant (n=10) | Non-Compliant (n=10) | Compliance Rate (%) |
|------------------------------|---------------------|-------------------------|---------------------|
| Diagnosis Confirmed | 10 | 0 | 100% |
| Baseline Blood Glucose/HbA1c | 10 | 0 | 100% |
| Treatment Initiation | 10 | 0 | 100% |
| Medication Dosing | 10 | 0 | 100% |

| | | | |
|---------------------------------|----|---|------|
| DKA Management | 10 | 0 | 100% |
| Glucose Monitoring Plan | 10 | 0 | 100% |
| Dietary and Exercise Counseling | 10 | 0 | 100% |
| Foot Care and Eye Exam | 10 | 0 | 100% |
| Comorbid Conditions Managed | 10 | 0 | 100% |
| Follow-up and HbA1c Monitoring | 10 | 0 | 100% |
| Hypoglycemia Risk Assessed | 10 | 0 | 100% |
| Patient Education Documented | 10 | 0 | 100% |

GRAPH: DM MANAGEMENT STG ADHERENCE MONITORING COMPLIANCE , JULY 2017EC



10. Discussion

The **100% compliance rate** observed in this audit underscores a remarkable level of adherence to the STG in diabetes management at Deder General Hospital OPD. This result is reflective of:

- Strong institutional commitment to evidence-based clinical guidelines.
- Effective training and continuous professional development for healthcare providers.
- Availability of essential diagnostic tools and medications.
- Well-established patient education and follow-up systems.

Maintaining this high level of compliance contributes directly to improved glycemic control, reduced acute and chronic complications, and enhanced patient quality of life.

Sustaining these gains requires continued monitoring, reinforcing clinical skills, and ensuring uninterrupted supply of necessary resources.

11. Recommendations

- **Sustain current excellence:** Continue supportive supervision and mentorship.
- **Regular monitoring:** Schedule quarterly audits to detect and correct any future deviations.
- **Training:** Ongoing refresher courses on STG and chronic disease management.
- **Resource maintenance:** Ensure consistent availability of diagnostic tools and medications.
- **Patient engagement:** Enhance education programs to empower self-management.

12. Improvement Plan

| Action Item | Description | Responsible Unit | Timeline |
|--------------------------|--|--------------------|---------------------------|
| Maintain 100% compliance | Continue mentorship, regular chart reviews | Quality Unit & OPD | Ongoing |
| Quarterly Re-Audit | Conduct re-audit every 3 months | Quality Unit | Oct 2017 E.C. & quarterly |

13. Implementation Status of Previous Improvement Plan

| Recommendation | Action Taken | Responsible Body | Status |
|--------------------------------|---|------------------|-----------|
| Improve documentation | Revised patient chart templates to include foot care and lifestyle counseling | EMR Focal Person | Completed |
| Strengthen follow-up | Established patient follow-up tracking system | OPD Director | Ongoing |
| Increase resource availability | Procured additional glucometers and educational materials | Finance Team | Completed |

14. Conclusion

The fourth-quarter audit demonstrates exceptional adherence to the Standard Treatment Guidelines for Diabetes Mellitus management at Deder General Hospital OPD, with **100% compliance across all evaluated parameters**. This performance highlights effective clinical governance and quality improvement initiatives already in place.

Sustaining this performance through regular audits, training, and resource management will be essential for continued patient safety and clinical excellence.

15. References

1. Ethiopian Ministry of Health. National Standard Treatment Guidelines for General Hospitals. Addis Ababa: Ethiopian Public Health Institute; 2021.
2. World Health Organization. Guidelines for the Diagnosis and Management of Diabetes Mellitus. Geneva: WHO; 2017.
3. American Diabetes Association. Standards of Medical Care in Diabetes – 2022. Diabetes Care. 2022;45(Suppl 1):S1–S264.
4. Fashner J, Gitu AC. Diagnosis and Treatment of Diabetes Mellitus. Am Fam Physician. 2015;91(4):236–242.
5. Ethiopian Food and Drug Authority. Guidance on Rational Use of Medicines. Addis Ababa: EFDA; 2020.