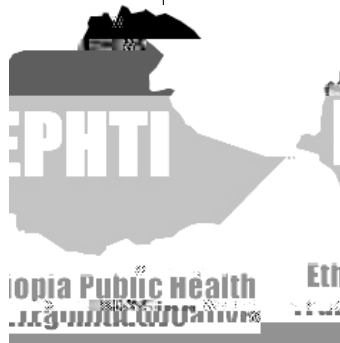


M

Former Ethiopian Health Center Team



Anwar Yibrie (MD, MSc, MPH), Sisay Yifru (MD+), Desalegn Tigabu (MD), Yifokir Tefera (BSc), Takele Tekelu (BSc), Taddis Birhane (BSc)

University of Gondar

In collaboration with the Ethiopia Public Health Training Initiative, The Carter Center, the Ethiopia Ministry of Health, and the Ethiopia Ministry of Education

2007



Funded under USAID Cooperative Agreement No. 663-A-00-00-0358-00.

Produced in collaboration with the Ethiopia Public Health Training Initiative, The Carter Center, the Ethiopia Ministry of Health, and the Ethiopia Ministry of Education.

Limited permission is granted free of charge to print or photocopy all pages of this publication for educational, not-for-profit use by health care workers, students or faculty. All copies must retain all author credits and copyright notices included in the original document. Under no circumstances is it permissible to sell or distribute on a commercial basis, or to claim authorship of, copies of material reproduced from this publication.

ACKNOWLEDGMENT

We would like to express our deep appreciation to The Carter Center for financial support of the activities in the development of this module. We want to acknowledge the School of Public Health, Department of Paediatrics and Child Health, Department of Nutrition, Department of Environmental Health, Department of Nursing, and Department of Medical Laboratory Technology of University of Gondar for allowing the team to work on the module.

TABLE OF CONTENTS

Acknowledgement.....	i
Table of Contents	ii
1. UNIT ONE: INTRODUCTION.....	1
1. Purpose and Use of the Module	1
2. Directions for Using the Module	2
2. UNIT TWO: CORE MODULE.....	3
1. Pre-test.....	3
2. Significance and Brief Description of the Problem	8
3. Learning Objectives.....	9
4. Case Study; Learning Activity.....	10
5. Definition.....	11
6. Epidemiology.....	11
7. Aetiology and Pathogenesis	12
8. Clinical Features (Signs and Symptoms)	12
9. Diagnosis	15
2. 10. Management	17
2.11. Prevention and Control of IDD	19
3. UNIT THREE: SATTELITE MODULES.....	24
1. Satellite Module for Health Officer	24
2. Satellite Module for Nurse	26
3. Satellite Module for Medical Laboratory Technician	32
4. Satellite Module for Environmental Health	39
4. BIBLOGRAPHY	49
5. ACCRONYMES/ABBREVIATIONS	50
6. ANSWER KEY.....	51

Initiative • Ethiopia
Pub
ing

UNIT ONE

INTRODUCTION

1. Purpose and use of the Module



2. Directions for Using the Module



UNIT TWO CORE MODULE

.1 Pre-and Post Test

Directions:



Initiative • Ethiopia's
Pub... ing



Initiative • Ethiopia
Pub

3

2

4

3

4

3 4

3 501800

Initiative • Ethiopia
Pub
ing

.2 Significance and Brief Description of the Problem



Initiative • Ethiopia's
Pub... ing



.3 Learning Objectives



Initiative • Ethiopia's
Pub... ing



.7 Aetiology and Pathogenesis

.8 Clinical Features (Signs and Symptoms)

- **Fetus**

- **Neonate**

- **Child and adolescent**

- **Adult**

-
-
-
-
-

All consequences of iodine deficiency stem from associated hypothyroidism

i. Goiter

-
-
-

N.B



Initiative • Ethiopia
Pub
ing

iii. Cretinism

a) Neurological cretinism



.10Management

Management of Iodine deficiency disorder

-

-

-

A) General Medical Care

- **Correction of an iodine deficiency**

- Supportive care



"

N.B - Using iodized salt is the simplest and least expensive modality of management

Treatment of Hypothyroidism

-
-
-
-
-

!

!

-
-

Follow up

Prognosis

.11 Prevention and Control of IDD



STRATEGIES

1. Universal Iodization



1. Strengthen Legislation

-
-
-
-

2. Training and advocacy

-
-
-
-
-

3. Strengthen Laboratories

-
-

MONITORING AND EVALUATION

1. Monitoring Quality of Iodated Salt

Initiative • Ethiopia's
Pub



UNIT THREE

SATELLITE MODULES

.1 Satellite Module for Health Officers

.1.1 Purpose and use of the module

.1.2 Directions for Using the Satellite Module

.1.3 Pre-test

.1.4 Significance and brief description of the Problem

.1.5 Learning objectives

.1.6 Case study

.1.7 Epidemiology

.1.8 Aetiology and pathogenesis

.1.9 Clinical features

.1.10 Diagnosis

.1.11 Management

.1.12 Prevention and control of IDD

.2 Satellite Module for Nurses

.2.1 Introduction

.2.2 Purpose and use of the module

.2.3 Directions for Using the Satellite Module

-
-
-
-

-
-
-
-
-

.2.7 Learning activity



.2.10 Clinical features

.2.11 Diagnosis

.2.12 Management

.2.12.1 Client care using the Nursing procedure

.2.12.2 Nursing Assessment

Subjective data

-
-

-
-

.2.12.3 Nursing Diagnosis

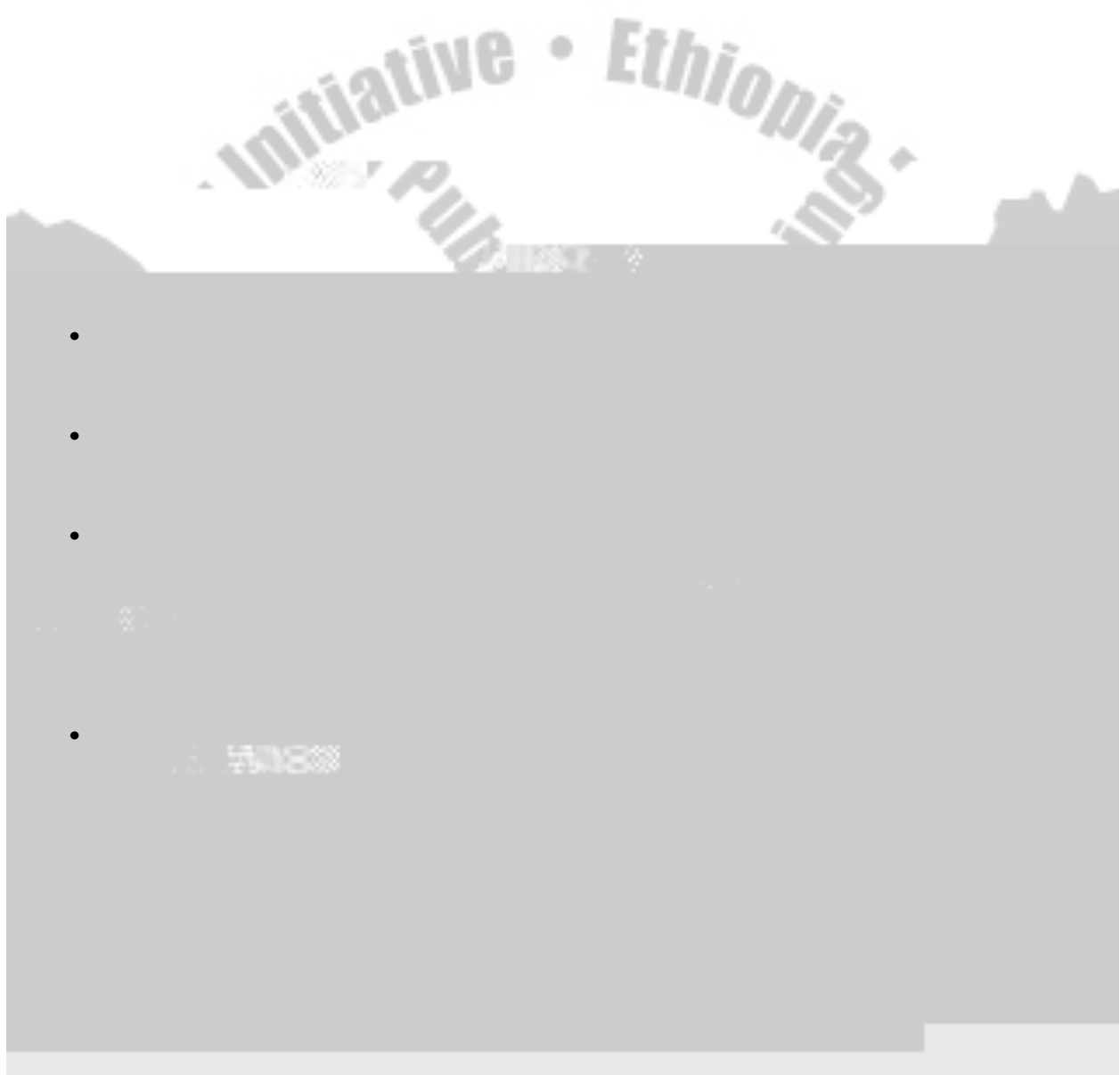


Initiative • Ethiopia's
Pub
ing



6

7



.2.12.6Evaluation

-
-

-
-
-
-
-
-
-
-

.2.13 Prevention and control of IDD

.3 Satellite Module for Medical Laboratory Technicians

.3.1 Purpose and use of the module

“
“
“
“

.3.4 Case study



Initiative • Ethiopia's
Pub
ing



Initiative • Ethiopia's
Pub
ing



Initiative • Ethiopia's
Pub
ing



4 2 2 8 2

2 3

2 4

2 4 2

2

2 4

2 4

3 2



Initiative • Ethiopia
Pub

Initiative • Ethiopia's
Pub
ing



.4 Satellite Module for Environmental Health

.4.1 Purpose and use of the module



.4.7 Occurrence of IDD

3

2



.4.11 Management

.4.12 Prevention and control of IDD

1. Universal salt iodization



Initiative • Ethiopia's
Pub



3

Main losses

3

Initiative • Ethiopia
Pub

3

Advantage of salt iodization

Food fortification

•

-

Advantage

Disadvantage



-

-

Iodization of water supplies

Initiative • Ethiopia's
Pub
ing



“
“
“

Initiative • Ethiopia
Pub
ing



ii) Rapid-test kits/ Spot testing -

Area of monitoring

Factory level:

Additional monitoring needs at intermediate levels



Monitoring and evaluation

4. BIBLIOGRAPHY

6.

Answer key



