

2019 Nutrition Survey

Sahrawi Refugee Camps, Tindouf, Algeria

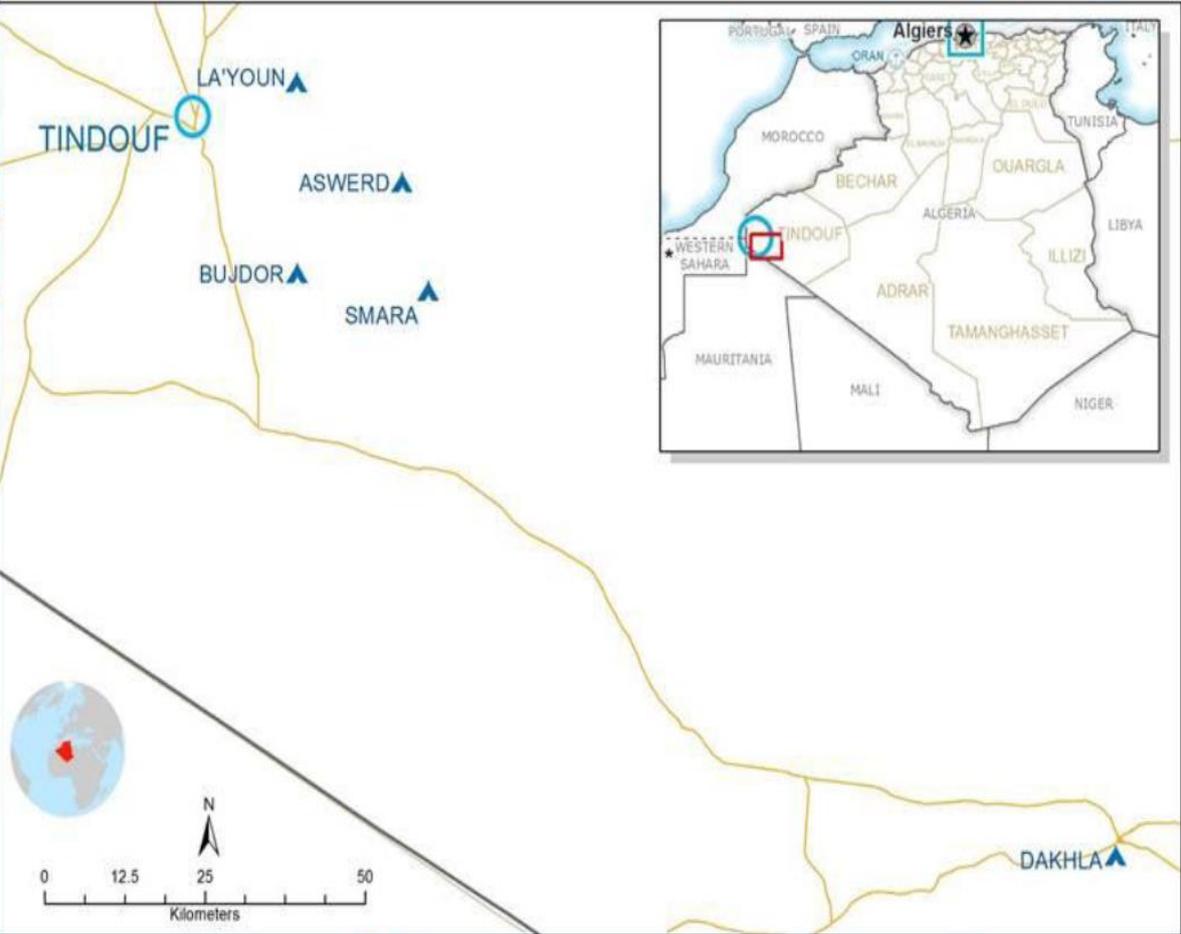
Survey Conducted: April-May 2019

Report Finalised: October 4th, 2019

Last revision: December 18th, 2019



ALGERIA
Tindouf Refugee Camps - March 2016



Date Created: March, 2016
 Contact: ehab.elkhatib@wfp.org
 Website: www.wfp.org
 Prepared by: RBC, VAN GIS

- Refugee Camp
- Country Office
- National capital
- International Boundaries
- Road
- Sub Office
- Population Size
- Contested territory
- Port
- State Boundary

Data sources: WFP, UN/FAO, GeoNames, GADM
 The information published and the conclusions of material in this report do not constitute the endorsement of any opinion or the act of WFP assuming the legal or constitutional status of any country, territory, city or state, or assuming the delineation of its borders or boundaries.
 © World Food Programme 2015

ACKNOWLEDGEMENTS

The author would like to acknowledge the involvement and support from the Sahrawi Refugee Health Authorities. Special thanks go to the Responsible of Health, Muhammad Lamine Ould Dadi, and to the Director of Cooperation for Health, Alien Abdulah Chej.

We are also grateful for the involvement and support from the Sahrawi Red Crescent. Special thanks go to the President of the Sahrawi Red Crescent Buhobeini Yahia, and all the Sahrawi Red Crescent teams who facilitated the work at the Wilaya level

We are grateful for all the logistical support we received from all the team at UNCHR Geneva, Algiers and Sub-Office Tindouf, especially Agostino Mulas, Abdel Halim Osman Ali Elfaki and Caroline Wilkinson for their encouragement and support to facilitate the implementation of the survey and for comments to this report. We also thank all the team at WFP Algiers and Sub-Office Tindouf, especially Armand Ndimurukundo for his support in the implementation of the survey. In addition, we acknowledge the support of UN agencies and NGOs.

We are grateful for the support of the Algeria Red Crescent for the successful completion of this work, especially the support of Mohammed Lamine Senouci, without which this work would not have been possible.

Without the dedication of the survey's team members, logistical support teams and drivers, the implementation of the survey would not have been possible (*see next page for the full list of the survey staff*); we fully thank them.

Finally, the author is extremely grateful to all the Sahrawi refugee families who took part in this Nutrition Survey and welcomed us into their homes.

LIST OF SURVEY STAFF

Survey Management

Carlos Grijalva-Eternod (UNHCR)

Survey Technical Coordination

Chafik Meziani (UNHCR), Yvant Doret Nguetimo (WFP)

Data Management

Carlos Grijalva-Eternod (UNHCR)

Report preparation

Carlos Grijalva-Eternod (UNHCR)

Field Coordination

Mahdjoub Boulanouar (UNHCR), Mohamed Lamine Bujars (CRS), Mohamed Lamine Senouci (CRA), Hamadi Mahfoud (CISP), Samir Zemouchi (CISP)

Field Supervision

Sidi Omar, Mariam Aliyen, Zaura Lahbab, Abdo Mohamed

Field Support

Bentahar Yamina (UNHCR), Leila Abidi (UNHCR), Kentouli Souad (UNHCR), Tarouadada Karim (UNHCR), Djoudi Yamina (UNHCR), Bilal Harfouchi (WFP), Hasiba Banmeni (CISP)

Enumerators

Aglana Mohsen, Aicha Abdallahi, Aza Bachi, Dahba Najem, Douli Ahmedsalem, Engia Lud, Jalida Saleh, Jatri Salek, Maima Abdallahi, Minatu Badi, Nagma Barka, Taslem Yahdih, Abdalahi Brahim, Baibaha Chej, Barakatu Abd Elbarka, Dahba Moh, Fatimatu Moh, Galia Ahmed, Jira Said, Mahmuda Moh Maulud, Mariam Salma Ahmed, Mohamed Ali Salem, Mula Bachar, Najat Houssein, Salka Azman, Agaila Moh Ahmad, Chaba Moh Said, Fatimetu Abdarham, Fatma Shrif, Galuha Ali, Jiyada (Meyada) Moh Lamin, Lahdiya Ali, Lala Sidi Azman, Mariam Moh Yahya, Mariam Mustafa, Mujtara Moh, Nana Abd Shakur, Nana Moh Nafee, Salambuha Amberik, Salka Moh Embarek, Salma Moh Mojtar, Saluka Waliyo, Suelma Salama, Sukeina Abdalahi, Tekbar Albachir Hama, Tfarah Ahmed, Zahra Husein, Zania Bara Zaidan

Drivers

Hamdi Najib, Achij Moh Ali, Lahbib lasiad, Abdalahe , Athman, Mohamed Mahmud, Maruf Abdo, Majedi Abdalahi, Albachir , Mohamed Salah , Hosain Madjoub, Elasri Habib (UNHCR), Sadgui Slimane (UNHCR), Argub Othmane (UNHCR), Hamdaoui Amara (UNHCR), Hamada Mahmoud (UNHCR), Hassan (WFP)

Contents

ACRONYMS AND ABBREVIATIONS	7
EXECUTIVE SUMMARY	8
Table 1. Summary of key indicators	11
I. INTRODUCTION	12
1.1 GENERAL CONTEXT	12
1.2. LOCAL ORGANISATION	12
1.3. NUTRITIONAL STATUS OF WOMEN AND CHILDREN	12
II. SURVEY DESIGN AND METHODS	14
2.1. AIM	14
2.2. TARGET POPULATION	14
2.3. OBJECTIVES	14
2.4. SAMPLE SIZE, NUMBER OF HOUSEHOLDS, AND NUMBER OF CLUSTER INCLUDED	14
2.5. SAMPLING PROCEDURE: SELECTING CLUSTERS, HOUSEHOLDS, CHILDREN AND WOMEN	14
2.6. NUTRITIONAL STATUS: DATA COLLECTION, AND INDICATORS	15
2.6.1. <i>Biological Data Obtained for individual level indicators</i>	15
2.6.2. <i>Nutritional Status Indicators</i>	17
2.6.3. <i>Infant and Young Child Feeding (IYCF) Indicators</i>	17
2.6.4. <i>Food Security Indicators</i>	18
2.6.5. <i>Case definitions and calculations on other relevant indicators</i>	19
2.7. TRAINING OF SURVEY TEAMS	20
2.8. THE SURVEY TEAM, FIELD DATA COLLECTION AND SUPERVISION	20
2.8.1. <i>Survey Teams</i>	20
2.8.2. <i>Data collection</i>	21
2.8.3. <i>Field Supervision and quality control checks</i>	21
2.9. DATA ANALYSIS	21
2.10. ETHICS AND INFORMED CONSENT	21
2.11. SURVEY SCHEDULE	21
III. SURVEY RESULTS	23
3.1) SURVEYED HOUSEHOLD CHARACTERISTICS	23
3.2) PHYSICAL STATUS IN CHILDREN AGED 6-59 MONTHS	25
3.2.1) <i>Global acute malnutrition in children aged 6-59 months</i>	25
3.2.2) <i>Underweight in children aged 6-59 months</i>	27
3.2.3) <i>Stunting in children aged 6-59 months</i>	28
3.3.4) <i>Malnutrition age distribution in children aged 6-59 months</i>	29
3.3) INFANT AND YOUNG CHILD FEEDING (IYCF) PRACTICES	31
3.4) NINE-YEAR PREVALENCE TRENDS OF IYCF INDICATORS	40
3.5) ANAEMIA IN CHILDREN AGED 6-59 MONTHS	44
3.6) ANAEMIA IN WOMEN OF REPRODUCTIVE AGE (15-49 YEARS)	47

3.7) PHYSICAL STATUS IN WOMEN OF REPRODUCTIVE AGE (15-49 YEARS)	50
3.8) FOOD SECURITY INDICATORS	52
3.9) NON-COMMUNICABLE DISEASES (NCDs)	59
3.10) DIARRHOEA IN CHILDHOOD AND DIARRHOEA MANAGEMENT	62
3.11) MEASLES VACCINATION	65
3.12) COVERAGE OF ANTENATAL AND POSTNATAL CARE FOR PREGNANT AND LACTATING WOMEN ..	66
3.13) COVERAGE OF ACUTE MALNUTRITION CARE	67
3.14) WATER, SANITATION & HYGIENE.....	68
IV. NUTRITION INDICATORS TRENDS 1997-2019	70
4.1) GLOBAL ACUTE MALNUTRITION PREVALENCE IN CHILDREN AGED 6-59 MONTHS	70
4.2) STUNTING PREVALENCE IN CHILDREN AGED 6-59 MONTHS	71
4.3) ANAEMIA PREVALENCE IN CHILDREN AGED 6-59 MONTHS	72
4.4) ANAEMIA PREVALENCE IN WOMEN OF REPRODUCTIVE AGE (15-49 YEARS)	73
4.5) UNDER-, OVER-WEIGHT AND OBESITY PREVALENCE IN WOMEN OF REPRODUCTIVE AGE (15-49 YEARS)	75
4.6) FOOD CONSUMPTION SCORES.....	76
V. RECOMENDATIONS	77
5.1) FOOD SECURITY AND NUTRITION ADEQUACY	77
5.2) INFANT AND YOUNG CHILD FEEDING (IYCF) PRACTICES	77
5.3) ACUTE MALNUTRITION	78
5.4) STUNTING AND ANAEMIA IN CHILDREN AND WOMEN	79
5.5) OBESITY AND NON-COMMUNICABLE DISEASES AMONG WOMEN.....	80
5.6) WATER, SANITATION AND HYGIENE.....	80
5.7) POPULATIONAL ASSESSMENTS	80
VI. ANNEXES	81
Annex 1) RESULTS TABLES	82
Annex 2) CLUSTER ALLOCATION.....	124
Annex 3) TERMS OF REFERENCE.....	126
Annex 4) SAMPLE SIZE CALCULATION	130
Annex 5) PLAUSIBILITY REPORTS.....	132

ACRONYMS AND ABBREVIATIONS

ARC	Algerian Red Crescent
BMI	Body Mass Index
BSF	Blanket Supplementary Feeding
CI	Confidence Interval
CISP	Comitato Internazionale per lo Sviluppo dei popoli
ENA	Emergency Nutrition Assessment
FCS	Food Consumption Score
GAM	Global Acute Malnutrition
HAZ	Length/Height-for-Age Z-score
HDDS	Household Dietary Diversity Score
IYCF	Infant and Young Child Feeding Practices
LNS	Lipid-based Nutrient Supplement
MAM	Moderate Acute Malnutrition
MDD-W	Minimum Dietary Diversity for Women
MNP	Micronutrient Powder
MUAC	Mid-Upper Arm Circumference
N/A	Not available
NCD	Non-Communicable Diseases
NCHS	National Centre for Health Statistics
NGO	Non-Governmental Organisation
OTP	Outpatient Treatment Program
PISIS	Integrated Sahrawi Child Health Programme
PLW	Pregnant and Lactating Women
rCSI	Reduced Coping Strategy Index
SAM	Severe Acute Malnutrition
UN	United Nations
UNHCR	United Nations High Commissioner for Refugees
UNICEF	United Nations Children's Fund
WASH	Water, Sanitation and Hygiene
WAZ	Weight-for-Age Z-score
WFP	World Food Programme
WHO	World Health Organisation
WHZ	Weight-for-Length/Height Z-score

EXECUTIVE SUMMARY

INTRODUCTION

A stratified, cluster nutrition survey was conducted in the Sahrawi refugee camps (Wilayas: Laayoune, Awserd, Smara, Dakhla and Boujdour) located near Tindouf, Algeria. The survey took place in March to May 2019, with the overall aim of establishing a detailed mapping of the current nutritional profile of the population. Findings of the survey were used to produce recommendations to improve the nutritional status and health of the Sahrawi refugees.

METHODS

The surveyed used a stratified two-stage cluster sampling design. A total of 42¹ clusters were randomly allocated to each stratum using probability proportional to size based on available estimates used for humanitarian programming and using the quarter (barrio) as the sampling unit in this first stage. In the second stage, nine households² were randomly selected from within each cluster, following the updated EPI method of proximity selection.

Two population groups were included in each survey; children aged 0-59 months and women of childbearing age (15-49 years). For all children surveyed, standard anthropometric, measles vaccination status, presence of diarrhoea in the previous two weeks and feeding practices, as well as health-seeking behaviours, during diarrhoea episodes were collected. Infant and young child feeding indicators were collected for children 0-35 months. For women, Body Mass Index (BMI) was obtained to assess the risk of chronic metabolic diseases. Peripheral blood was obtained in children and women, to assess haemoglobin using a portable photometer (HemoCue® 201+). At the household level the Food Consumption Score (FCS) and the Household Dietary Diversity Score (HDDS) -both food security indicators-, as well as coping mechanisms, were obtained in all surveyed households. In addition, we obtained reported Non-Communicable Diseases (NCDs) and household water and sanitation data.

RESULTS

A total of 1,728 households were visited. Most households agreed to be surveyed 97.2% (1,944 children and 2,463 women). Key indicators obtained in these surveys are summarised in Table 1 below.

Nutritional status in children 6-59 months– Anthropometric indicators and anaemia

The overall prevalence of Global Acute Malnutrition (GAM), assessed using weight-for-length/height z-score (WHZ) <-2 and/or oedema, was 7.6%, ranging from 3.8% in Laayoune to 11.5% in Smara. The GAM prevalence in Smara was significantly higher than all other strata. Similar prevalence estimates were found when GAM was defined as Mid-Upper Arm Circumference (MUAC) <12.5 cm and/or oedema. GAM prevalence has significantly worsened since 2016. The stunting prevalence was 28.2%, ranging from 27.4% in Smara to 30% in Dakhla. Stunting prevalence has significantly worsened since 2016.

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_4063

