

Essential Nutrition Actions and Essential Hygiene Actions

Reference Manual: Health Workers and Nutrition Managers

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Contents

Acronyms and Abbreviations	V
Global Nutrition Efforts	1
About the Essential Nutrition Actions Operational Framework	2
The Essential Nutrition Actions	3
The Framework to Integrate, Communicate and Harmonize	6
2015 Updates, Compared to ENA 2011	7
Reference Documents	8
About The Reference Manual	9
About Adapting the Reference Manual	10
Document #1: Learning Objectives for the ENA&EHA Training	11
Document #2: Pre-assessment	12
Document #3: Role of Health Workers in Improving Nutrition	14
Document #4: Helping Health and Community Workers Use All Available Platforms and Contact Points	16
Document #5: Stages of Change Model Steps to Change Practices and behaviors, and Role of the Support Person	17
Document #6: Stages of Change and Interventions	18
Document #7: Conceptual Framework for Nutrition	19
Document #8: Implementing the ENA & EHA to Prevent Undernutrition	20
Document #10: Interventions to Break the Intergenerational Cycle of Malnutrition	22
Document #11: Practices provided by Health Workers to Adolescent Girls, Non-Pregnant Women, and Pregnant and Lactating Women	25
Document #12: Essential Nutrition Actions in the Context of HIV Pregnant and Lactating Women and Their Children Who Are HIV Negative or of Unknown Status	28
Document #13: The Benefits of Breastfeeding for Infants and Young Children and the Risks of Formula Feeding	30
Document #14: Breastfeeding Practices from Birth up to Six Months	32
Document #15: How Health Workers Can Support Maternal and Child Health	34
Document #16: Proper Breastfeeding Positioning and Attachment	37
Document #17: Feeding Recommendations for HIV positive mother	40

Document #18: How to Transition to Replacement Feeding after 12 months	42
Document #19: Replacement Feeding with Commercial Infant Formula	43
Document #20: Family Planning, Nutrition, and Breastfeeding	45
Document #21: Messages on the Lactation Amenorrhea Method	46
Document #22: The Diarrhea Transmission Cycle: The Fecal–Oral Route	48
Document #23: Building a Hand Washing Device	49
Document #24: Discussion Using an Illustration	51
Document #25: Listening and Learning Skills, and Building Confidence and Giving Support Skills	52
Document #26A: GALIDRAA Negotiation Checklist	53
Document #26B: Observation Checklist of GALIDRAA Counselling Steps	54
Document #26C: Initial Visit Negotiation Record	56
Document #27: Negotiation Checklist for Follow-Up Visits	57
Document #28: Practice Case Studies: Adolescents and Women's Nutrition	59
Document #29: Practice Case Studies: Infants from Birth up to Six Months	61
Document #30: Preventing and Controlling Vitamin A Deficiency	64
Document #31: Preventing and Controlling Anemia	67
Document #32: Preventing and controlling Zinc and Calcium deficiencies, and Iodine Deficiency Disorders	70
Document #33: Complementary Feeding Practices for Children Aged 6 up to 24 Months	73
Document #34: Active Feeding	79
Document #35: What Health Providers Can Teach Parents or Caregivers about Complementary Feeding	81
Document #36: Seasonal Food Calendar	85
Document #37: Illness, Feeding, and Recovery	86
Document #38: Nutritional Care during and After Illness	87
Document #39: What Health Providers Can Teach Parents or Caregivers about Feeding During and After Illness	89
Document #40A: Practice Case Studies: Complementary Feeding for Children 6 up to 24 Months	91
Document #40B: Practice Case Studies: Feeding the Sick Child	96
Document #41: About Support Groups	100

Document #42: Support Group Observation checklist	103
Document #43: What is Integrated Management of Acute Malnutrition	104
Document #44: Signs of Marasmus, Kwashiorkor, and Bilateral Edema	105
Document #45: Acute Malnutrition Management and	107
Inpatient Treatment Admission Criteria	107
Document #46: Food and Counseling for Outpatient Therapeutic Programs	108
Document #47: Child MUAC Measurement	109
Document #48: Antenatal Care in Fourth, Sixth or Seventh, Eighth, and Ninth Months	111
Document #49: Delivery and Perinatal Care	114
Document #50: Postnatal Care and Family Planning on the 7th and 45th Days after Delivery	117
Document #51: Expanded Program on Immunization	120
Document #52: Growth Monitoring and Well-Child Visits	123
Document #53: Sick-Child Visits and Integrated Management of Neonatal and Childhood Illnesses	126
Document #54: Community Management of Acute Child Malnutrition in an Outpatient Therapeutic Program	129
Document #55: Comparison of Training Guides for Health Workers and Community Workers	132
Document #56: Supervision Guidelines for Community Health Workers	136
Document #57: Action Plan Template for Implementation of ENA & EHA Program	138
Document #58: Post-Assessment	139
Document #59: Pre- and Post-Assessment: Answers	141
Document #60: FNA&FHA: Course Evaluation	1/12

Acronyms and Abbreviations

ANC antenatal care ARV antiretroviral BF breastfeeding body mass index BMI

CV community volunteer **EBF** exclusive breastfeeding **EHA Essential Hygiene Actions ENA Essential Nutrition Actions**

F75/F100 Formula 75 and Formula 100: Therapeutic milk to treat severe acute malnutrition

FADDUA Frequency, Amount, Density, Diversity, Utilization, Active feeding

GALIDRAA Greet, Ask, Listen, Identify, Discuss, Recommend, Agree, set follow-up Appointment

GMP growth monitoring and promotion

HFP homestead food production IDD iodine deficiency disorder

IFA iron-folic acid

IMAM integrated management of acute malnutrition

IMNCI integrated management of neonatal and childhood illnesses

IPT intermittent preventive treatment ITN insecticide-treated mosquito net

IU international units

IYCF infant and young child feeding lactation amenorrhea method LAM moderate acute malnutrition MAM

mother-to-child transmission (of HIV) MTCT

MUAC mid-upper arm circumference OTP outpatient therapeutic program

PMTCT prevention of mother-to-child transmission (of HIV)

RUTF ready-to-use therapeutic foods

SAM severe acute malnutrition

SBCC social behavior change communication

SC stabilization Center

SFP supplementary feeding program STI sexually transmitted infection

training of trainers TOT TT tetanus-toxoid

Global Nutrition Efforts

Around the world some 162 million children under five were stunted in 2012. 'At current trends, the number of stunted children under five is projected to be 128 million in 2025, against a target of 100 million. The current prevalence of anaemia in women of reproductive age is 29.4%, against the 2025 target of 14.7% (WHO, 2014)". Beyond the scourge of the lack of food is the even more pervasive problem of "hidden hunger," or deficiencies in key micronutrients like vitamin A, iron, zinc and iodine. Children affected by stunting and micronutrient deficiencies are more susceptible to sickness, fare poorly in school, enter adulthood more prone to non-communicable diseases, and at work often earn less than non-stunted coworkers. Children suffer, families suffer and nations suffer.

The world community is reacting with increasing urgency to the gravity of this situation and its effects for the long term, focusing on global undernutrition, especially among pregnant women and children under two years of age. It is also aligning and increasing resources and building partnerships to combat suffering caused by undernutrition. Since 2010, more than 100 government, civil society, and university groups have endorsed the framework and roadmap for the Scaling-Up Nutrition (SUN) Movement. There is also broad recognition that a well-defined set of essential nutrition actions has proven effective in combating malnutrition during the critical first 1,000 days.⁶

The landmark Lancet Series on Maternal and Child Undernutrition published in 2008 and updated in 2013^{7 8 9} estimates that maternal and child undernutrition is the cause of 45 percent of under-five deaths. 1 These series reviewed global data from randomized control trials and confirmed that if implemented at scale during the window of opportunity (from conception up to 24 months of age) this package of nutrition-specific and nutrition-sensitive interventions can significantly reduce mortality and related morbidity and disability.

In 2013, the World Health Organization (WHO) released a guide entitled, Essential Nutrition Actions: improving maternal, newborn, infant and young child health and nutrition¹⁰, which also draws on the findings of systematic reviews such as those of the Lancet to highlight the proven actions that need to be taken to scale within the health sector.

⁵ http://www.who.int/nutrition/en/

⁶ http://www.thousanddays.org/

⁷ The Lancet. Maternal and Child Undernutrition. The Lancet, 2008, http://www.thelancet.com/series/maternal-and-child-undernutrition; and 2013, http://www.thelancet.com/series/maternal-and-child-nutrition. This landmark series estimated that effective, targeted nutrition interventions to address maternal and child undernutrition exist, and if implemented at scale during the 1,000-day-long window of opportunity, could reduce nutrition-related mortality and disease burden by 25 percent

⁸ Black, R. E., C. G. Victora, et al. (2013). "Maternal and child undernutrition and overweight in low-income and middle-income countries." The Lancet

⁹ Bhutta, Z. A., J. K. Das, et al. (2013). "Evidence-based interventions for improvement of maternal and child nutrition: what can be done and at what cost?" Lancet.

¹⁰ World Health Organization. 2013. "Essential Nutrition Actions: Improving Maternal, Newborn, Infant and Young Child Health and Nutrition." Geneva: World Health Organization. http://www.who.int/nutrition/publications/infantfeeding/essential_nutrition_actions/en/.

About the Essential Nutrition Actions Operational Framework

The Essential Nutrition Actions (ENA) framework was originally developed with the support of USAID, WHO and UNICEF, and has been implemented across Africa and Asia since 1997.11 The full ENA framework is an approach for managing the advocacy, planning and delivery of an integrated package of interventions to reach near universal coverage (>90%) in order to achieve public health impact.

It promotes a "nutrition through the life cycle" approach to deliver the right services and messages to the right person at the right time using all relevant program platforms. It provides an operational framework for reducing "missed opportunities" both within12 and outside the health system for delivering nutrition messages and services.

The recommended practices are multiple and potentially complex. However, over years of experience the program has evolved to distill the most important and practical aspects, and to organize delivery mechanisms that refresh and reinforce the knowledge of implementers. In addition, in each setting users can select priority elements from the full package for their context, and/or phase in components over time to avoid overloading health agents, community workers and other cadres helping to roll out nutrition strategies.

¹¹ Guyon AB, Quinn VQ, Hainsworth M, Ravonimanantsoa P, Ravelojoana V, Rambeloson Z, and Martin L. (2009) Implementing an integrated nutrition package at large scale in Madagascar: The Essential Nutrition Actions Framework. Food & Nutrition Bulletin 30(3):233-44.

¹² Hampshire, R. D., V. M. Aguayo, et al. (2004). "Delivery of nutrition services in health systems in sub-Saharan Africa: opportunities in Burkina Faso, Mozambique and Niger." Public Health Nutr 7(8): 1047-1053.

The Essential Nutrition Actions

Women's Nutrition

For adolescents and women: the importance of the healthy timing and spacing of pregnancy, consumption of diversified diet and/or of fortified foods (commercial and/or in-home fortification).

During pregnancy and lactation: increased protein, caloric and micronutrient (Vitamin A, Iron, Calcium, Zinc) intake, dietary change to increase iron absorption, rest during pregnancy, and the lactation amenorrhea method (LAM) of contraception.

Breastfeeding

Early initiation of breastfeeding (immediately after birth), exclusive breastfeeding for the first 6 months, continued breastfeeding with complementary foods up to 2 years or beyond, and HIV and infant feeding.

Complementary Feeding

From 6 months (age-appropriate frequency, amount, density, diversity, utilization) with continued breastfeeding for up to two years or beyond, consumption of fortified foods (commercial and/or in-home fortification), responsive feeding, food hygiene.

Nutritional Care of Sick and Malnourished Children

Feeding more during and after illness, provision of vitamin A, and treatment of diarrhea with lowosmolarity ORS and zinc supplements, and the integrated management of acute malnutrition (IMAM) for moderate and severe acute malnutrition.

Prevention and Control of Anemia

Among women: increased dietary intake of iron-rich or enhancing foods, iron-folic acid supplementation during pregnancy, post-partum and more routinely by women of childbearing age, intermittent preventive treatment (IPT) for malaria and de-worming treatment during pregnancy, use of insecticide-treated bed nets (ITNs), and delayed cord clamping at birth.

Among children: delayed cord clamping at birth, implementation of the Integrated Management of Neonatal and Childhood Illness (IMNCI) algorithm and integrated Community Case Management (iCCM) of malaria, diarrhea, pneumonia, anemia and acute malnutrition, use of ITNs, de-worming from age 12 months, increased dietary intake of iron-rich or enhancing foods from age 6 months, and iron supplementation where indicated.

Prevention and Control of Vitamin a Deficiency

Among children and women: through breastfeeding, high dose supplementation of children ages 6-59 months and of women post-partum where appropriate, low dose supplementation during pregnancy where indicated, and promoting the regular consumption of vitamin A-rich, fortified or bio-fortified foods.

Prevention and Control of Iodine Deficiency

Among children and women: through promotion of iodized salt or through supplementation in the absence of scaled up iodized salt programs.

In addition, mounting evidence suggests it is necessary to give more emphasis to the Essential Hygiene Actions previously embedded within complementary feeding and feeding the sick child. These actions include: household treatment and safe storage of drinking water (such as utilizing chlorine solution and storing water in closed container with tap), hand washing at five critical occasions (after defecation; after cleaning child who has defecated; before preparing food; before feeding child; before eating), safe storage and handling of food, the safe disposal of feces through the use of latrines and promotion of open defecation free communities, and creating barriers between toddlers and soiled environments and animal feces.

The 2013 Lancet Maternal and Child Nutrition series emphasized that nutrition-sensitive programs, such as those shown in the box below, can improve nutritional outcomes by addressing many of the underlying determinants of malnutrition especially those related to food security, caregiving practices and adequate health services, water and sanitation. These nutrition-sensitive programs also offer an opportunity to integrate nutrition-specific interventions, such as the Essential Nutrition Actions (ENA) and Essential Hygiene Actions (EHA), which in turn leads to their increased coverage and effectiveness. As the Lancet authors note, "...nutrition-sensitive programs can help scale up nutrition-specific interventions and create a stimulating environment in which young children can grow and develop to their full potential". 13

The ENA & EHA training materials aim to provide skills on how to effectively implement nutritionspecific ENA & EHA interventions during the first 1,000 days, as well as emphasizes how to integrate these into a range of nutrition-sensitive programs including health services and community level interventions in other sectors.

^{13 (}Ruel M, Alderman H, and the Maternal and Child Nutrition Study Group. Nutrition-sensitive interventions and programmes. Lancet 2013; published online June 6. http://dx.doi.org/10.1016/S0140-6736(13)60843-0)

Nutrition Sensitive Interventions

Health and Family Planning Services

- Family planning
- Adolescent and women health
- **Immunization**
- Management of childhood illnesses

Food Security and Livelihoods

- Agricultural interventions
- Addressing seasonal food insecurity
- Early warning and resilience
- Social protection and safety nets
- Conditional and unconditional cash transfers
- Dietary quality and diversity

Water, Sanitation and Hygiene (WASH) interventions

- **Environmental enteropathy**
- Promotion of hygiene behaviors and practices
- Hygienic and sanitary environment
- Drinking water quality, distance and source
- Improved sanitation facilities
- Reduction and elimination of open defecation

Early Childhood Development (ECD) and Positive Caregiving

Women's Empowerment and Gender Equality

Maternal Mental Health

Child Protection

Classroom Education

The Framework to Integrate, Communicate and Harmonize

The ENA Framework includes ensuring that priority messages and services from this comprehensive list are integrated into all existing health sector programs, in particular those that reach mothers and children at critical contact points in the first thousand days of the life cycle: maternal health and prenatal care; delivery and neonatal care; postpartum care; family planning; immunizations; well child visits (including growth monitoring, promotion and counseling); sick child visits (including facility and community IMCI and CCM); and IMAM.

The appropriate messages and services are also integrated to the greatest extent possible into programs outside the health sector: agriculture and food security activities; education (pre-service for health, primary and secondary schools for general education) and literacy programs; microcredit and livelihoods enhancement; and water, sanitation, and hygiene (WASH). ENA messages and behavior change communications are also delivered and reinforced by community groups.

Implementing the ENA framework entails building the widest possible network of partnerships across sectors so that interventions, practices and messages are harmonized and all groups use similar materials and jobs aids. Ideally, ministries and partners are brought together at the regional and/or national levels to agree on these harmonized approaches. Such fora can also serve as a platform for advocacy with policy leaders on the importance of nutrition to the nation's economic as well as social development.

Implementing the ENA Framework Entails Three Interconnected **Strategies**

Develop a multi-channel social and behavior change communication (SBCC) plan to promote and support the adoption of "small do-able" actions. Special emphasis is given to interpersonal counseling (supporting individual mothers, especially in the context of their daily routines, to adopt optimal practices) reinforced by group discussions, mass media, community festivals and other social mobilization events. Health workers, other agents, and community workers are trained to employ the counseling technique of "negotiation for behavior change," to help mothers anticipate and overcome barriers to carrying out new practices. Health workers can use these approaches with clients at clinics, while community workers apply them during home visits or at community meeting places (markets, chores, women groups meetings, etc.).

Tailor a capacity building strategy to enable program managers, health workers, other agents (agriculture extension workers, teachers, credit groups, etc...) and community workers to acquire knowledge and skills in delivering services and counseling through all relevant existing platforms and contacts, therefore decreasing missed opportunities to deliver ENA and EHA.

Strengthen delivery systems (health, agriculture, water & sanitation, education, finance) to secure the regular supply of nutrition related products, to include the monitoring of nutrition actions into information systems, and to incorporate nutrition into supportive supervision and quality improvement schemes.

2015 Updates, Compared to ENA 2011

The updated ENA-EHA training builds on the ENA 2011 training Trilogy keeping the overall format of the materials. The 2015 revised version also:

- Includes the latest ENA recommendations from WHO¹⁴ across the life cycle; in particular, nutrition for adolescents, non-pregnant and non-lactating women, revised micronutrient protocols, and the importance of working beyond the health sector.
- Serves as an operational and practical tool for translating 2013 Lancet recommendations and SUN aspirations into action on the ground
- Gives central focus to moving beyond nutrition education to promotion of social and behaviour change. Includes exercises throughout to build participants' skills in counselling and negotiation to support caregivers to adopt improved practices, including role plays, field practicums, using illustrations to animate group discussions and individual counselling, facilitating community support groups, and applying these skills across both ENA and EHA.
- Equips health workers at health facilities to **better deliver nutrition** services and messages at each health contact.
- Guides nutrition managers through practical exercises to build their training skills and provides
 them with a tool to train community workers across all sectors to promote high impact
 nutrition and hygiene.
- Includes the promotion of the Essential Hygiene Actions as inextricably linked to improved
 nutrition, going beyond hand washing to food hygiene, animal hygiene, safe water, and
 introduction to simple hand washing stations.
- Incorporates suggestions for ways that **Homestead Food Production** can contribute to improved nutrition and how agriculture in general can be made nutrition-sensitive.

Reference Manual: Health Workers and Nutrition Managers 7

¹⁴ World Health Organization. 2013. "Essential Nutrition Actions: Improving Maternal, Newborn, Infant and Young Child Health and Nutrition." Geneva: World Health Organization. http://www.who.int/nutrition/publications/infantfeeding/essential_nutrition_actions/en/.

Reference Documents

Lancet References (2008 -2013)

Lancet Series on Maternal and Child Undernutrition (2008) Lancet Series on Maternal and Child Nutrition (2013)

WHO References (2013)

WHO Essential Nutrition Actions Guide

ENA Training Materials (2015)

- ENA & EHA Training Guide Health Workers and Nutrition Managers
- ENA & EHA Reference Manual Health Workers and Nutrition Managers
- ENA & EHA Training Guide Community Workers (all sectors)
- ENA & EHA Reference Materials on Key Practices Community Workers (all sectors)

ENA State of the Art Training for Managers (English & French, 2006)

Includes nine modules on rational for the essential nutrition actions and large scale implementation

Technical Capacity Assessment tools (JSI, 2013)

These tools are designed to help an organization assess its ability to implement various nutrition programs, looking holistically at personnel, documents, and systems in place at the organizational and implementing partner levels.

- Essential Nutrition Actions Framework within the Health system
- Community-based Management of Acute Malnutrition
- Essential Nutrition Actions Framework within the context of HIV & AIDS

Quality Assessment of Nutrition Services-A How-To Guide (HKI. inielsen@hki.org)

Surveying Nutrition-Related Services Offered to Pregnant Women, Postpartum Women, and Caregivers of Children Under Five in Health Facilities

Supportive Supervision Tools

Quality Improvement Verification Checklists Partnership Defined Quality (Save the Children) Integrated **MNCH Supportive**

Supervision (JSI) Supportive Supervision at key health contact points (JSI)

Care Group Guidance for Community

- Care Group Difference: Guide to Mobilizing Community-Based Volunteer Health Educators (World Relief/CORE Group, 2004)
- Care Groups: A Training Manual for Program Design and Implementation (TOPS; Food for the Hungry, 2014)

Formative Research Tools

- ProPAN 2.0 (PAHO, CDC, 2013)/Optifoods Focused Ethnographic Study Guide (GAIN, 2012)
- Designing for Behavior Change (CORE Group & Food Security & Nutrition Network, 201

About The Reference Manual

The goal of this Reference Manual is to provide information to health workers and nutrition managers to conduct Community Workers training and to support the delivery of nutrition and hygiene practices. This reference manual provides key information on the conceptual framework of nutrition, on contact points to deliver essential nutrition actions and essential hygiene actions, on adolescents and women nutrition, infant and young child feeding, nutrition in the context of HIV, protocols to prevent and control micronutrient deficiencies, integrated management of acute malnutrition, guidelines to conduct counseling and negotiation with mother and caregivers, facilitation skills to conduct community support groups and guidelines to carry out supportive supervision at community level. Messages and additional information for each of the ENA and EHA practices are targeted to improve health workers' performance in delivery of nutrition (and hygiene) during each health contact.

The Essential Nutrition Actions and Essential Hygiene Actions Reference Manual - Health Workers and Nutrition Managers is distributed during the ENA & EHA training for health workers and nutrition managers. It is to be used by health workers after the training, as it provides a summary of the fundamental concepts of nutrition and hygiene in the health sector. Similarly it is to be used by nutrition managers to build their capacity in carrying participative and quality training based on the principles of adult learning.

In addition, complementary materials can be also provided:

The Essential Nutrition Actions and Essential Hygiene Actions Reference Materials on Key Practices -Community Workers (all sectors) provides messages and information on each of the recommended ENA and EHA practices, identifying "who is doing the action", "what is the action", and "the benefit of the intended action." Information about Homestead Food Production (HFP) that can support nutrition practices in the first 1,000 days is also included in this reference handbook.

About Adapting the Reference Manual

Two training guides have been developed to strengthen the nutrition capacity of health workers and community workers. Both include sessions introducing technical content while also enabling the practice of counseling and negotiations skills through role plays and field practice and guiding providers in how to deliver nutrition and hygiene through existing contacts using a life cycle approach.

While the content of the training guides remain generally fixed, the approach for communicating the rationale and benefits of the practices may need to be adapted through formative research or testing of the messages to ensure they fit specific country and regional cultures and contexts. Such research will identify key behavioral determinants to be addressed, local terms and social norms to be taken into account, and other strategies to tailor the general training modules and communications strategies to the specific needs of each unique area. Similarly, protocols related to micronutrient supplementation and treatments will have to be aligned with country recommendations.

Document #1: Learning Objectives for the ENA&EHA Training

At the end of the training, participants will be able to:

- Describe the **key nutrition practices** and messages relating to:
 - women's nutrition (adolescents, and during pregnancy and lactation)
 - breastfeeding from birth up to 6 months, including infant feeding and HIV 0
 - complementary feeding from 6 up to 24 months: BF + FADDUA 0
 - prevention and control of micronutrient deficiencies (vitamin A, anemia zinc, iodine, and calcium).
 - Assessment, treatment and referral of acute malnourished children
 - Essential Hygiene Actions (use of latrines, handwashing, clean water, clean environment and utensils)
- Explain which nutrition actions to deliver at each contact (facility and community)
- Perform the following skills:
 - negotiate with mothers/fathers/caregivers to encourage them to try one improved practice and reinforce correct behaviors
 - facilitate participatory group discussions and community support groups that will stimulate problem solving to overcome barriers to behavior change
 - train and supervise community workers to strengthen their performance in promoting optimal nutrition and hygiene actions

Document #2: Pre-assessment

Please read through the following statements. Select **Yes** if you agree with the statement or select **No** if you disagree with the statement.

#	PRE ASSESSMENT	YES	NO
1.	When breastfeeding, the baby's chin needs to touch the mother's breast.		
2.	Vitamin A supplementation is necessary only for children under 1 year.		
3.	Even if a mother believes she does not have enough breastmilk, she can still be able to adequately breastfeed her baby.		
4.	A mother can prevent sore and cracked nipples by correctly positioning and attaching her baby at the breast.		
5.	Watery food is a better food for a 6-month old baby than soft porridge.		
6.	The mother or caregiver needs to play with the baby to encourage the baby to eat all the food given.		
7.	Animal products, beans and legumes are the foods that help a child grow.		
8.	Young children should be breastfed for at least 1 year.		
9.	Mothers need support from the family or the community in order to feed their children.		
10.	When a young child over 6 months has diarrhea, the mother needs to decrease the frequency of breastfeeding, frequency of other liquids, and the frequency of foods to give child's stomach a rest,		
11.	A pregnant woman needs to eat more than a woman who is lactating.		
12.	Red meat, liver, and green leafy vegetables contain iron.		
13.	A malnourished mother is likely to give birth to a low birth weight child.		
14.	Breastfeeding benefits only the baby.		
15.	It is important to sleep under an ITN to prevent anemia in women and children.		
16.	Pregnancy and lactation are the only points in the lifecycle of females where nutrition should be improved.		
17.	It is important to focus on pregnant and lactating women and children under two year of age to improve nutrition outcomes.		
18.	When a mother is HIV-positive, she cannot breastfeed.		

#	PRE ASSESSMENT	YES	NO
19.	Integration of nutrition into other sectors means reaching mothers, their babies and children at critical contact points in that sector.		
20.	In traditional complementary foods, iron is almost always deficient.		

Document #3: Role of Health Workers in Improving Nutrition

WHO	WHEN/WHERE/CONTACT	NUTRITION AND HYGIENE PRACTICES
Adolescent	SchoolsCommunity-wide events	 Adolescent nutrition Micronutrient supplementation and treatment WASH
Woman	 Discussion groups Community Support Groups Care groups Family planning 	 Woman's nutrition Micronutrient supplementation and treatment WASH
Pregnant Woman	 Antenatal and postnatal care Family planning Community support Groups Care Groups 	 One extra meal per day Micronutrient supplements/treatment (or protein-energy supplements for undernourished mothers) Discuss the following: Importance of skin-to-skin with newborn Good positioning and attachment Early initiation of breastfeeding (give colostrum) Exclusive breastfeeding from birth up to 6 months (avoid other liquids and food, even water) Breastfeeding on demand – up to 12 times day and night WASH
Newborn	Delivery	 Place baby skin-to-skin with mother Good positioning and attachment Early initiation of breastfeeding (give colostrum, avoid water and other liquids)
Lactating mother	Postnatal careFamily planningCommunity support	 Two extra meals per day Micronutrient supplements/treatment Vitamin A supplementation (from birth to 6 weeks post-

WHO	WHEN/WHERE/CONTACT	NUTRITION AND HYGIENE PRACTICES
	Groups • Care Groups	delivery according to national protocol) • WASH
Infant 0 up to 6 months	Postnatal visits Immunization Sessions Growth Monitoring Promotion (GMP) Family planning sessions Sick Child clinic Community follow-up	 Good positioning and attachment Exclusive breastfeeding from birth up to 6 months Breastfeeding on demand – up to 12 times day and night Ensure mother knows how to express her breast milk Breastfeeding difficulties (plugged ducts which can lead to mastitis, and not enough breast milk) Increase breast milk supply Maintain breast milk supply Continue to breastfeed when infant or mother is ill WASH
Infant & young child from 6 up to 24 months	 GMP Sick child Clinic Community follow-up 	 BF + FADDUA: Frequency, Amount, Density, Diversity, Utilization, Active or Responsive feeding At 6 months, begin to offer foods 2 to 3 times a day - gradually introduce different types of foods (animal foods, staple, legumes, vegetables, and fruits) and continue breastfeeding WASH
Infant & young child	Health facilityIMAM programCommunity outreach	 Screen for MAM and SAM Refer to in-patient if necessary WASH
Family	 Discussion groups Community Support Groups Care groups Homestead Food Production for dietary diversity Community-Led Total Sanitation for clean environments 	 Safe water Hand washing Sanitation Clean environment

Document #4: Helping Health and Community Workers Use All Available Platforms and Contact Points

Opportunities in Health Facilities

- · At antenatal care clinics
- At delivery and post delivery
- During postpartum/family planning sessions
- During well-baby clinic sessions
- In immunization clinics
- During growth monitoring and promotion
- At sick-child visits
- During outpatient care for malnutrition

Opportunities at the Community Level

- During home visits
- During outreach for immunization
- During nutrition screening
- During market days
- While fetching water and working
- During visits to neighbors
- Around religious, cultural, social, or business-related gatherings (e.g., festivals, family celebrations, savings and loan meetings, literacy groups, talks by religious leaders)
- During traditional gatherings for men or women
- Support Groups

Opportunities at School

- During health classes
- At parent–teacher association activities

Opportunities with Agriculture Platforms

- Conversations with extension or agricultural workers
- At farmers' schools
- Discussions with seed traders
- Lectures or talks about Household Food Production (HFP): gardens, agroforestry or about small husbandries

Encourage brainstorming to find as many platforms as possible in volunteers' communities.

Document #5: Stages of Change Model Steps to Change Practices and behaviors, and Role of the Support Person



Changing behavior is VERY DIFFICULT! It is not a linear process.

Not knowing: Doesn't know, has no knowledge of the problem, thus doesn't think at all about making a change. Or, maybe knows something and is aware of the problem, but is fixed not to change.

Knowing: Is aware of the problem. Thinks a bit about making the change; recognizes the importance of changing, but is not sure that s/he will or can change; has doubts about the results, the approval of other people.

Intention: Has decided to do something. Maybe has tried in the recent past without succeeding. Planning to make a change, but only thinking about doing it.

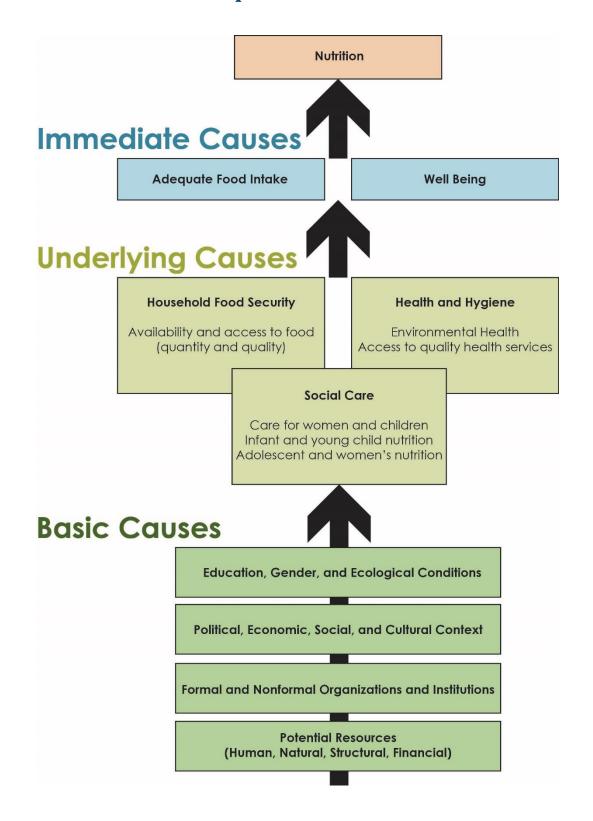
Action: Changing but has not arrived at a permanent state of practicing the behavior.

Maintenance: The new behavior is now a habit.

Document #6: Stages of Change and Interventions

STAGE	APPROPRIATE INTERVENTIONS	
At each stage, the goal is to encourage the target audience to try a new practice—to provide support for a mother's choice and to change community norms.		
Never Heard About the	Build awareness and provide information.	
Behavior	Stage skits and plays; participate in fairs.	
(Not Knowing)	Give talks for community groups.	
	Participate in radio broadcasts.	
	Offer individual counseling.	
	Form and promote support groups.	
Heard About the New	Encourage the behavior and discuss its benefits.	
Behavior Or Know What it is	Hold group discussions or talks.	
(Knowing)	Disseminate information via the spoken or printed word.	
(Kilowilig)	Hand out counseling cards.	
	Form and promote breastfeeding and young child feeding support groups.	
Thinking About the	Negotiate with community members and help them overcome obstacles.	
New Behavior	Make home visits, and use visuals.	
(Intention)	Create activities for families and the community.	
	Create structures for peer-to-peer support.	
	Negotiate with husbands, mothers-in-law, or other influential family members to support the mother.	
Trying Out the	Praise the behavior and reinforce its benefits.	
New Behavior	Congratulate the mother and other family members as appropriate.	
(Action)	Suggest support groups to visit or join to provide encouragement.	
	On radio programs and in other forums, encourage community members to provide support.	
Continuing the New Behavior	Reinforce the benefits of the behavior.	
or Maintaining It	Praise the individual for making the change.	
(Maintenance)	Tell others about adopting the new practices.	

Document #7: Conceptual Framework for Nutrition



Document #8: Implementing the ENA & EHA to Prevent Undernutrition

The focus is on preconception and during the 1,000-day window of opportunity from pregnancy to a child's second birthday.

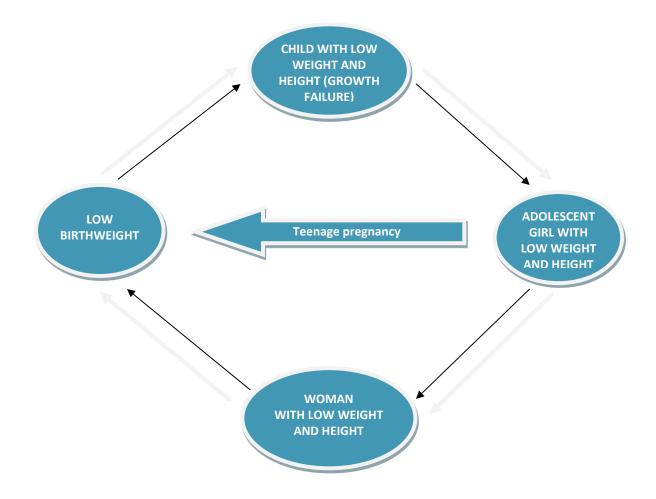
Focus on Essential Nutrition Actions

- Promote adolescent's nutrition.
- Promote women's nutrition during pregnancy and lactation
- Promote and support breastfeeding practices.
- Advocate feeding child 6 up to 24 months complementary foods ("family foods") while breastfeeding.
- Urge nutritional care of sick or malnourished children.
- Control vitamin A deficiency.
- Control anemia.
- Control iodine deficiency disorders.

Focus on Essential Hygiene Actions

- Promote the use of sanitary latrines, including by children.
- Promote hand washing with soap and water after going to the bathroom and after cleaning baby's feces.
- Promote hand washing with soap and water before preparing food, before eating food, and before feeding young children.
- Promote the installation of a tippy tap or other hand washing station next to the cooking area and another next to the toilet.
- Encourage keeping all cooking containers and utensils clean, as well as water and food containers clean and covered.
- Encourage reheating and sufficient cooling of any stored foods to ensure safety.
- Encourage families to keep animals away from homestead and child play areas clean and protected.

Document #9: The Intergenerational Cycle of Malnutrition



THE CYCLE

When a woman is malnourished, the next generation may also suffer from malnutrition and poor health. Malnourished women are more likely to have been:

Low birthweight babies.

Underweight and stunted as girls.

Girls whose first pregnancy occurred during their adolescence.

Women whose pregnancies have been closely spaced.

Women who had heavy workloads during pregnancy and breastfeeding.

Consequences of malnourished mother:

Increased infection due to weakened immune system

Weakness, tiredness

Decreased productivity

Difficult labor

Increased risks of complications during labor and delivery Increased risk of death if mother hemorrhages Decreased ability to care for children

Document #10: Interventions to Break the Intergenerational Cycle of Malnutrition

Child survival initiatives must start before conception by improving the health of adolescent girls and women, addressing their economic and social problems.

Prevent Growth Failure (Low Weight and Height in a Child)

- Initiate breastfeeding early (immediately after birth).
- Practice exclusive breastfeeding from birth up to six months of age.
- Start complementary feeding at six months; continue to breastfeed until at least age two.
- Continue adequate complementary feeding 6 up to 24 months (Breastfeeding + FADDUA)
- Feed sick children more than usual while they are ill and for two weeks after recovery.
- Obtain vitamin A supplementation and consume a diet rich in vitamin A.
- Control anemia via iron–folic acid (IFA) supplementation, deworming, and consuming iron-rich
- Control iodine deficiency by consuming iodized salt.
- Obtain all needed immunizations.
- Practice family planning.

Prevent Low Weight and Height in Adolescent Girls

- Increase adolescents' food intake.
- Delay first pregnancies until after age 20.
- Prevent and treat infections via:
 - complete anti-tetanus immunizations for pregnant women (five injections in all)
 - education on prevention of sexually transmitted infections (STIs) and HIV 0
 - use of insecticide-treated nets (ITN)
- Prevent iron, vitamin A, and iodine deficiencies via consumption of:
 - iron-rich foods (e.g., meat and liver, dark green leafy vegetables, beans, fortified foods)
 - vitamin A-rich foods (e.g., liver, butter, milk, papaya, mangoes, carrots, pumpkins and orange-flesh sweet potatoes)
 - iodized salt and iodine-rich foods (e.g., fish and seafood)
- Prevent vitamin A and anemia via supplementation of:
 - IFA supplementation and deworming
- Encourage parents to give girls and boys equal access to education. (Malnutrition drops when girls and women receive more education.)

Prevent low weight and height in women.

- Assure women's access to nutrient dense foods at every stage of life, especially during adolescence, during pregnancy, and while breastfeeding. They should receive an additional meal, more food than usual, and a varied diet.
- Prevent iron, vitamin A, and iodine deficiencies via consumption of:
 - iron-rich foods (e.g., meat and liver, dark green leafy vegetables, beans, fortified foods)
 - vitamin A-rich foods (e.g., liver, milk, butter, papaya, mangoes, carrots, pumpkins and orange-flesh sweet potatoes)
 - iodized salt and iodine-rich foods (e.g., fish and seafood)
- Prevent and treat infections via:
 - complete anti-tetanus immunizations for pregnant women (five injections in all)
 - use of insecticide-treated nets
 - IFA supplementation, deworming and presumptive treatment of malaria for pregnant women
 - education on STIs and HIV transmission and prevention
- Prevent low birth weight (LBW) through good nutrition during pregnancy
 - eat iron-rich foods
 - eat vitamin A-rich foods
 - use iodized salt
 - 0 eat one additional meal daily
 - prepare for early initiation of breastfeeding and exclusive breastfeeding

Implement Family Planning

Women need to visit a family planning center offering multiple contraceptive options to

- Space pregnancies (3 years).
- Delay the first pregnancy until after age 20.

Decrease Energy Expenditure

- Encourage couples to use family planning for optimal birth spacing.
- Decrease the workload of pregnant and breastfeeding women.
- Allow women to rest more during pregnancy.

Encourage Men's Participation

- Involve men in birth spacing and following up on pregnancy and delivery.
- Obtain husbands or partners' involvement for a more nutritious diet and lighter workload for their wives.
- Involve fathers in providing nutrient-rich foods for young children.

Document #11: Practices provided by Health Workers to Adolescent Girls, Non-Pregnant Women, and Pregnant and Lactating Women

Nutrition for Adolescent Girls and Non-pregnant Women

Girls between the ages of 10 and 20 years are still growing and need different types of food and an Iron Folic Acid (IFA) supplement to fully develop their bodies. Non-pregnant women also need to build strong bodies to prepare for future pregnancies and to take care of their families.

- Advise an adolescent girl to eat at least three meals daily; eating fish, chicken, eggs, or meat at least once a day will help an adolescent girl develop strong bodies and help them develop into healthy adults and prepare them for healthy future motherhood.
- Advise adolescent girls and non-pregnant women to eat many different types of colorful foods to develop and maintain strong bodies. Some examples are amaranth and red amaranth, country bean, yard-long bean, soybeans, peanuts, black beans, orange-flesh sweet potato, pumpkin, African eggplants, moringa, okra, papaya, and spinach.
- Provide adolescent girls and non-pregnant women weekly IFA supplementation and twice yearly deworming medicine to prevent anemia or weak blood. IFA and deworming medicines may be available to adolescent girls at schools.
- Advise an adolescent girl to delay her first pregnancy until after age 20 to allow her body to fully develop. A fully developed body will enable her to deliver a strong baby. Work to convince the entire family of this fact.

Nutrition for Pregnant Women

Pregnant women need to eat more food than usual (one extra bowl of food every day) to give birth to healthy and strong babies.

- Counsel a pregnant woman to get vitamins by eating a varied diet that consists of many different types of colorful foods, to have healthy and strong babies. Examples of these foods are amaranth and red amaranth, country bean, yard-long bean, potato greens, soybeans, peanuts, black beans, orange-flesh sweet potato, pumpkin, African eggplants, moringa, okra, papaya, and spinach. Pregnant women should also consume chicken, crayfish, eggs, fish, meat, peanuts, or snails daily if possible.
 - The list of nutritious foods will change with regions and seasons.
- Encourage husbands and partners to support their pregnant wives in these practices
- Urge a pregnant woman to rest and avoid carrying heavy loads. Husbands and partners should support their pregnant wives to take these steps, so they can deliver strong, healthy babies.
- Counsel that to allow the body to rest, pregnancies need to be spaced by a minimum of three years

Nutritional Supplements, Medicines, and Vaccines during Pregnancy Iron-Folic Acid Supplements during Pregnancy

Anemia ("low or weak blood") is a condition where the number of red blood cells in the body is too low. This causes a person to feel very sick and very weak. Not getting enough iron will lead to anemia, and pregnant women need extra iron.

- Provide IFA tablets to pregnant women to maintain their strength and health and to prevent anemia.
 - Pregnant women need to take IFA medicine throughout the pregnancy and after delivery.
 - Depending on the country protocol, IFA tablets are consumed daily or two to three times weekly.
 - Husbands need to make sure their pregnant wives obtain IFA tablets as soon as possible to keep them healthy and strong, and to have strong babies.
- Inform pregnant women that IFA tablets should be taken with food to avoid nausea and vomiting, stomach pain, or constipation. Also, recommend they drink a lot of water to avoid becoming constipated.
 - Black stools are normal when taking iron medicine.
- Encourage the consumption of fish, meat, eggs, liver, and dark green leafy vegetables: good sources of iron, daily if possible.
- Depending on the country protocol, provide low dose vitamin A consumed daily or two to three times weekly.

Deworming Medicines during Pregnancy

Worms can cause anemia.

- Provide deworming medicine to pregnant women two times during a pregnancy to keep them from becoming anemic.
 - Husbands need to make sure their pregnant wives get deworming medicine.

Tetanus-Toxoid Vaccines during Pregnancy

- Give to pregnant women tetanus-toxoid immunization at the health facility.
 - Husbands need to make sure their pregnant wives get these vaccinations.

Preventing Malaria during Pregnancy

Malaria causes anemia, which can be harmful for the unborn baby.

- Provide malaria medicine (intermittent preventive treatment [IPT]) to pregnant women at each scheduled antenatal care visit after the first trimester. The dose should not be taken at the same time as IFA.
- Advise pregnant women to sleep under an insecticide-treated mosquito net (ITN) to protect herself from malaria and to keep her unborn baby healthy.

- Husbands need to make sure their pregnant wives get IPT at the clinic and that they sleep under an ITN to prevent malaria and to keep the unborn baby healthy.
- Test and immediately treat a pregnant woman (or family member) who has fever.

Iodized Salt during Pregnancy

A pregnant woman needs to consume iodized salt to make sure her new baby is born healthy and will be able to learn at school when they are older.

- Recommend that all family food be cooked using iodized salt, so all family members remain
- The iodized salt has to be added to the pot at the end of the cooking.
- The iodized salt should be stored in a covered container or jar and away from heat.

Nutrition for Breastfeeding Mothers

Diet Quantity and Quality

- Counsel breastfeeding women to eat more food than usual and consume many different types of colorful foods to remind strong and get vitamins, including amaranth and red amaranth, country bean, yard-long bean, potato greens, soybeans, peanuts, black beans, orange-flesh sweet potato, pumpkin, African eggplant, moringa, okra, papaya, and spinach. They also have to eat chicken, crayfish, eggs, fish, meat, peanuts, or snails.
- Advise breastfeeding women to eat two extra bowls of food each day to maintain her strength and health.

Vitamin A Supplementation Postpartum

Taking vitamin A enriches breastmilk, which helps babies fight illness.

Give vitamin A supplement (200,000 IU) to a post-partum woman, as soon as possible after the delivery, no later than eight weeks afterwards (check country protocol).

Document #12: Essential Nutrition Actions in the Context of HIV Pregnant and Lactating Women and Their **Children Who Are HIV Negative or of Unknown Status**

OPTIMAL BREASTFEEDING (< SIX MONTHS)	ADEQUATE COMPLEMENTARY FEEDING WITH CONTINUED BREASTFEEDING (6 UP TO24 MONTHS)	NUTRITIONAL CARE OF SICK OR MALNOURISHED CHILD	CONTROLLING VITAMIN A DEFICIENCY	CONTROLLING ANEMIA	CONTROLLING IODINE DEFICIENCY DISORDERS	WOMEN'S NUTRITION DURING PREGNANCY AND LACTATION
Early initiation of breastfeeding — within one hour of birth. Keep newborn warm and dry (skin to skin). Exclusive breastfeeding during first six months.	Complementary feeding starting at six months with mashed foods. Continued breastfeeding to 24 months or beyond. Increased feeding frequency with age. Increased amount of food with age. Increased density or thickness of foods with age. Enriched diet with a variety of foods and fortified foods. Active feeding. (Encourage and play with the baby while eating. Hand washing before feeding. Food hygiene.	 Increased frequency of breastfeeding during and after illness. Increased frequency of complementar y feeding during and after illness for children aged 6 up to 24 months. Zinc supplementation for children with diarrhea. Vitamin A supplementation as recommended. Special care for malnourished child, depending on severity. Kangaroo care for low birth weight newborns. 	Diversified diet with vitamin Arich foods (e.g. ripe orange and yellow vegetables and fruits, liver) and fortified foods. Vitamin A supplementation for woman after delivery (as per national protocol). Vitamin A supplementation twice a year for children between 6 and 59 months of age.	 Delayed cord clamping. Diversified diet with iron-rich foods (red meat and dark green, leafy vegetables) and fortified foods. Supplementatio n with IFA daily for six months for pregnant women and continuing after delivery, if needed. Deworming for pregnant women and for children between 12 and 59 months of age, twice a year. In malariaendemic areas: sleep under ITN, IPT for pregnant women. In areas where malaria is not endemic but anemia prevalence is > 50 percent: IFA supplementation daily for children aged six months and above. 	lodized salt, when available.	One additional meal daily during pregnancy. Two additional meals daily during lactation. Breast health during lactation. Less workload and more rest during pregnancy.

KEY CONCEPTS OF ESSENTIAL NUTRITION ACTIONS

Delay of first pregnancy. Child spacing. Immunization. Clean water, hygiene, and sanitation.

Developed by Agnes Guyon, Victoria Quinn, and Robert Mwadime. Revised 2013.

Additional Essential Nutrition Actions for HIV-Positive Adults, Pregnant and Lactating Women, and Their Children

breastfeeding or exclusive formula feeding. • Encourage exclusive breastfeed for at least 1 year. • Encourage exclusive breastfeed for at least 1 year. • Energy intake increased by 10 percent if suspected HIV-positive and not losing weight (one extra feeding per day). • Energy intake increased by 10 percent if suspected HIV-positive and not losing weight (one extra feeding per day). • Supplementary or therapeutic feedings or child. • Assess health and growth of child. • Dietary management of increased by 20 to 30 percent if symptomatic or losing weight (double the daily feedings). • Supplementary or therapeutic feeding per international guidelines. • Diet management of increased by 10 percent if suspected HIV-positive and not losing weight (double the daily feedings). • Assess health and growth of child. • Dietary management of nutrition-related symptoms. • Counsel and	OPTIMAL BREASTFEEDING (< SIX MONTHS)	ADEQUATE COMPLEMENTARY FEEDING WITH CONTINUED BREASTFEEDING (SIX UP TO 24 MONTHS)	NUTRITIONAL CARE OF SICK OR MALNOURISHED CHILD	CONTROLLING DEFICIENCIES OF VITAMIN A AND OTHER MICRONUTRIENTS	CONTROLLING ANEMIA AND IODINE DEFICIENCY DISORDERS	WOMEN'S NUTRITION DURING PREGNANCY AND LACTATION	ADULT'S HEALTH
PMTCT and ART.	feeding option: exclusive breastfeeding or exclusive formula feeding. • Encourage exclusive breastfeeding for 6 months for infants confirmed to be HIV-positive. • Energy intake increased by 10 percent if suspected HIV-positive and not losing weight (one extra feeding per day).	of breastfeeding when breastmilk can be replaced by other milks (animal or commercial); otherwise breastfeed for at least 1 year. • Energy intake increased by 10 percent if suspected HIV-positive and not losing weight (one extra feeding per day). • Use fortified, blended foods, when available. • Assess health and growth of child.	testing child (depending on test availability). Immediate treatment of sickness. Diet management of nausea, vomiting, and oral sores, etc. Energy intake increased by 50 to 100 percent if losing weight (double the daily feedings). Supplementary or therapeutic feeding for moderate or severely malnourished child, per international guidelines.	at one recommended daily allowance with multiple micronutrients if diet is not adequately diverse.	for HIV- negative individuals.	increased by 10 percent if non-symptomatic; add one extra feeding daily. • Energy intake increased by 20 to 30 percent if symptomatic or losing weight; add two extra feedings daily. • BMI for nutritional monitoring or MUAC for pregnant women. • Breastfeeding stopped on affected breast if encounter breast problems. • Dietary management of nutrition-related symptoms. • Importance of malaria prevention and deworming. • Counsel and refer for PMTCT and ART.	diet. Energy intake increased by 10 percent in adults if not symptomatic; add one extra meal daily. Energy intake increased by 20 to 30 percent if symptomatic or losing weight; add two extra feedings daily. Evaluation of interaction of nutrition and ARVs. Monitor weight and BMI. Dietary management of vomiting, nausea, and other nutrition-related symptoms. Physical exercise to build muscle mass.
Be sure to assess the household food security situation and to treat all illnesses immediately. Developed by Agnes Guyon, Victoria Quinn, and Robert Mwadime, Revised 2013	Ве						

Developed by Agnes Guyon, Victoria Quinn, and Robert Mwadime. Revised 2013.

Document #13: The Benefits of Breastfeeding for Infants and Young Children and the Risks of Formula Feeding

How Breastmilk Helps Infants and Young Children **Breastmilk:**

- saves infants' lives
- is a complete food for infants because it contains balanced proportions and a sufficient quantity of all the nutrients babies need during their first six months of life
- contains antibodies that protect against diseases, especially against diarrhea and respiratory infections
- Infants benefit from colostrum, the yellowish "first milk," which protects them from diseases. The colostrum acts as a laxative, cleaning the infant's stomach
- promotes adequate growth and development, preventing stunting
- is always clean
- is always ready and at the right temperature
- is easy to digest; its nutrients are well absorbed
- protects against allergies
- has antibodies that protect the baby's gut, preventing harmful substances from passing into the blood
- contains the right amount of water to meet a baby's needs (up to 88 percent of breastmilk is water)
- helps jaw and teeth development; suckling develops facial muscles

Frequent skin-to-skin contact with the mother improves the baby's psychomotor, emotional, and social development

How Breastfeeding Helps the Mother Breastfeeding:

- reduces risks of bleeding after delivery
- immediately after birth stimulates breastmilk production
- is economical
- stimulates the bond between mother and baby
- reduces the mother's workload. She does not have to spend time gathering fuel, boiling water, or preparing milk to feed her baby, and
- reduces risks of breast and ovarian cancer.
- The baby's suckling stimulates uterine contractions, so putting the baby to the breast immediately after birth facilitates expulsion of the placenta.

- Immediate and frequent suckling prevents engorgement.
- Exclusive breastfeeding is more than 98 percent effective as a contraceptive method during the first six months, provided that periods do not return.

How Breastfeeding Benefits the Family

- No money needs to be spent to buy formula, firewood, or other fuel to boil water or milk. The money saved can be used to meet the family's other needs.
- No medical expenses are incurred due to sickness that could be caused by formula. Breastfeeding mothers and their breastfed children are healthier.
- With fewer illnesses, the family encounters fewer emotional stresses.
- Breastfeeding's contraceptive effect spaces births.
- Breastfeeding saves time and reduces the family workload—breastmilk is always available and ready.

How Breastfeeding Is Good for the Community

- With no need to import formula and the utensils necessary for its preparation, hard currency is saved and can be used elsewhere.
- Healthy babies make a healthy nation.
- Savings are made in the health sector. Decreased child illnesses reduce the national cost of treating them.
- Breastfeeding improves child survival and reduces child morbidity and mortality.
- Breastfeeding benefits the environment—no trees need to be used for firewood to boil water or milk. Breastmilk is a natural renewable resource.

Risks of Formula Feeding

- Risk of mortality increases for formula-fed children.
- Risk of gastrointestinal infections and acute respiratory disease increases for formula-fed children.

Formula-fed children:

- are at increased risk for infection. Infant formula can become contaminated in the factory with heat-resistant, pathogenic, and highly contagious bacteria such as Enterobacter sakazakii.
- are more likely to suffer from asthma
- are at increased risk for allergies
- cognitive development and educational attainment are reduced
- are at increased risk for childhood cancers such as leukemia and for chronic diseases
- are at increased risk for obesity, Type 1 and Type 2 diabetes, and cardiovascular disease

Document #14: Breastfeeding Practices from Birth up to Six Months

Early Initiation of Breastfeeding

- At delivery, put the newborn on the breast immediately after birth (even before expelling the placenta) to help the mother expel the placenta.
 - The first yellowish milk (colostrum) is rich in vitamins and is important for babies' health: It makes the babies strong. It cleans their stomachs, and helps them get rid of their first dark stool (meconium). Also, it acts as an infant's first vaccination, which helps keep the baby from getting sick and protects from infection.
 - Breastfeeding right away helps milk come in and helps mothers expel the placenta, reduce postpartum bleeding, and avoid swollen breasts.
- Help the mother to support her breast with her whole hand; explain that putting fingers around the nipple in a scissors-like position risks stopping the milk flow.
- Feeding the baby sugar water, honey, water, palm oil, butter, powdered milk, cow's milk, or goat's milk instead of breastfeeding may interfere with establishing good breastfeeding practices. It also could lead to diarrhea, pneumonia, or other illness in the baby. Only feed the baby breastmilk.
- If a mother thinks the baby is thirsty, advise mother to drink water; breastmilk will quench her baby's thirst.

Exclusive Breastfeeding from Birth up to Six Months of Age

- Advise a new mother to feed her baby only breastmilk. The baby should not be given water or other liquids or food, so she can grow healthy and strong during first six months of life.
 - Explain that frequent breastfeeding helps milk flow and keeps the baby growing big and strong. When a mother gives her baby water or other liquids, the child will suck less on the breast. This may hinder the baby's growth
 - Breastmilk contains all the food and water the baby needs for the first six months. It is clean and safe. It also protects babies from diarrhea, colds, and coughs.
- Counsel that it is important to empty one breast before switching to the other to enable the baby to get the water and the nutrients of breastmilk. The breastmilk at the beginning of the feeding is full of water and helps quench the baby's thirst. Later during the feeding the milk is richer, thicker, and full of nourishment. It will satisfy the baby's hunger.
- During first six months breastmilk sufficiently satisfies the baby's thirst—even in hot weather. An important part of the breastmilk is water, so the mother needs to always drink enough water.
 - Giving babies sugar water, traditional medicine, infant formula, milk powder, or other liquids or other foods can make them sick.

Recommend not to use a bottle to feed the baby. Bottles are hard to keep clean and may become contaminated and cause illness.

How Often to Breastfeed

- The more a baby suckles, the more milk is made. Mothers need to breastfeed as often as the baby wants—at least 10 to 12 times over a 24-hour period. Breastfeeding often helps milk production and gives the baby enough food to grow healthy and strong. One breast needs to be emptied before the mother offers the other breast.
- Assure the mother that if she allows her baby to suckle frequently, she should not worry about having enough breastmilk.
 - At around three months, the baby is likely to have a rapid growth spurt; therefore, the baby may cry more or want to feed more often. This is normal and temporary. Be sure that the baby suckles frequently and longer
- While a woman is breastfeeding, she is also practicing family planning, i.e., the lactation amenorrhea method (LAM). This is effective as long as she is not having her menses and the baby is less than six months old and only breastfeeds.

How to Express Breastmilk

- Explain and demonstrate with the mother:
- Put her thumb on the breast above the areola, the dark area around the nipple, and the first finger below the nipple and areola. She can support her breast with her other fingers.
- Gently press toward her chest wall with her thumb and finger.
- To continue to compress the breast while moving her hand away from the chest wall. This should not hurt. If it does, she is not doing it right.
- Press the same way on each side of the dark area around the nipple to empty all parts of the breast.
 - She should not squeeze the nipple or rub her fingers over the skin.
- She can express one breast for between three and five minutes until the flow slows down; she then switches to the other breast. Finally, do both breasts again. Change hands when one hand gets tired. It usually takes 20 to 30 minutes to express all the milk.
- The breastmilk is stored in a clean, covered container in a cool place (up to 8 hours) until she is ready to warm it and feed it to the baby.
- Advise to feed the baby using an open cup; never feed the baby with a bottle. (Bottles are hard to clean and can give baby diarrhea.)

Document #15: How Health Workers Can Support Maternal and Child Health

Help Mothers to Achieve Breastfeeding Practices

- Discuss the benefits of breastfeeding and birth spacing with mother, husband, and family.
- Help the mother breastfeed immediately after delivery (whether done by a midwife, at the hospital, or at home) to give the baby colostrum.
- Explain the benefits of giving colostrum.
 - Colostrum will protect the infant from disease by providing first vaccine.
 - Suckling will aid the mother in expelling the placenta more rapidly, helping her reduce blood loss.
 - Colostrum will help the baby expel meconium, the infant's first stool.
 - Giving colostrum will stimulate production of breastmilk. 0
 - Giving colostrum requires skin-to-skin contact, which will keep the baby warm.
- Promote EBF from birth to six months. Inform the mother about the following:
 - Breastmilk contains all the water and nutrients infants' need to grow and satisfy their hunger and thirst.
 - Give no other foods or liquids during the babies' first six months because their immature systems cannot digest them.
 - Exclusively-breastfed infants likely have fewer diarrheal, respiratory, and ear infections.
 - Exclusive breastfeeding helps space births by delaying the return of fertility (LAM).
- Mention the importance of introducing complementary foods at six months while breastfeeding at least until the baby's second birthday. Inform the mother about the following:
 - After six months, breastmilk alone cannot meet all of the baby's nutritional needs.
 - Complementary foods can include available, affordable, local foods.
 - Giving breastmilk to children for two years will continue to protect them from illness.
- Congratulate and encourage the mother (or caregiver); answer her questions.
- Urge her to seek out community support group meetings for breastfeeding support.
- For family planning help, provide appropriate methods and counseling or refer her to Family Planning consultation.
- Remind her to immunize the child (see below).

Ask Pregnant Women Nutrition-Related Questions

- How will you feed your baby? (If she does not plan to breastfeed, ask why not.)
- Have you heard of exclusive breastfeeding and why it is essential? (Reinforce key messages on EBF from birth to six months of age).
- Did you encounter difficulties breastfeeding other children? If so, what were they?
- Have you been to a health facility for prenatal (antenatal) care?
- Did you get iron-folic acid (IFA) supplements at the health facility? Do you take them daily?
- Did you get your tetanus vaccination? Did you get your deworming medicine?
- If malaria is endemic in the area: Do you sleep under an insecticide-treated mosquito net? Did you get the intermittent preventive treatment?
- If HIV testing is available nearby: Have you been tested for HIV?

When is the best time for clamping the baby umbilical cord?

- The clamping of the baby umbilical cord needs to be done when the pulsations have stopped (two to three minutes).
- It helps to prevent mother's heavy bleeding.
- It increases blood flow to the newborn and builds infant's body iron storage, preventing infant anemia.
- There is no risk for HIV transmission.

Encourage Iron-Folic Acid Supplementation after Delivery

- Mothers need IFA supplementation for three months after delivery to prevent iron-deficiency anemia. All together the pregnant woman needs IFA supplementation for 6 months, no matter when she starts (including post-partum).
- Because mothers lose blood during delivery, they need to increase their iron stores for their own health and that of their babies. (Iron passes into breastmilk.)
- Breastfeeding mothers need to eat food rich in iron, including dark green leafy vegetables, meat, liver, and legumes.

Give Mothers of Three-Month-Olds the Information They Need

- Breastfeeding frequency needs to be increased because the baby is growing fast.
- The mother needs to empty one breast before switching to the other. (Milk at the beginning is full of water to quench the baby's thirst; milk at the end is richer, thicker, and full of nutrients and fat content.)
- No food or drink should be given to the infant—the child's system is not mature enough.
- A mother will have enough milk if she gives the baby no other food or drink. The more the baby sucks, the more breastmilk the mother will produce.

Explain the Care of a Sick Child under Six Months of Age

 Counsel the mother to breastfeed more often when her baby is sick to help the child gain strength and weight. She should continue breastfeeding more often for two weeks after baby recovers. She should give the baby no other liquids.

Provide Immunizations for Babies before Their Six-Month Birthday

BCG + Polio 0 Polio 2 + Penta 2 + Pneumococcus + Rota

Vaccines Polio 1 + Penta 1 + Pneumoccocus + Rota

Vaccines Polio 3 + Penta 3 + Pneumococcus + Rota

Vaccines

Remind the mother to come back at six months for vitamin A supplementation (IU 100,000) and at nine months for measles and yellow fever (if applicable) vaccines.

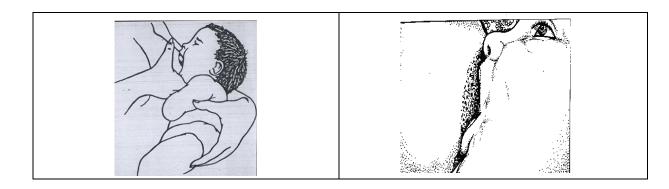
Document #16: Proper Breastfeeding Positioning and Attachment

Positioning

- The mother is comfortable.
- The mother holds the infant so the child's face is at her breast level, with nose pointing straight toward mother's nipple. The baby should have a direct view of the mother's face, not her chest or abdomen. The infant should be close to the mother, and the child's stomach should be against the mother's stomach. The infant's head, back, and buttocks should be in a straight line.
- The mother brings the infant's body to her breast and supports the child's whole body, not just the head and shoulders.
- The mother holds her breast with her fingers in a C shape, with the thumb above the dark part of the breast (the areola) and the other fingers below. Fingers are not in a scissor hold around the nipple (i.e., with two fingers on either side of it); this method puts pressure on the milk ducts and can stop the milk flow and pull the nipple out of the baby's mouth.
- To stimulate the infant to open the mouth wide, the mother teases the infant's lower lip with her nipple.

Good Attachment

Good attachment enables the infant to suckle effectively, to remove the milk efficiently, and to stimulate an adequate supply.



- The baby's mouth covers a large part of the areola; more of the areola shows above the nipple than below. The infant's chin touches the breast.
- Baby's lower lip is turned outwards.
- The areola and the nipple stretch and become longer in the infant's mouth. (If attachment is not good, milk will not be completely removed, which can lead to sore nipples, inflammation of the breast, and mastitis.)

Signs of Efficient Suckling

- Slow and regular sucking is good, with one swallow following each two sucks.
- The infant's sucks are slow and deep with occasional pauses.
- Suckling is comfortable and pain free for the mother.
- The mother hears her baby swallowing.
- The breast is softer after the baby has finished feeding.

Common Breastfeeding Positions

Regardless of position, the mother must be comfortable. In every position, she should draw the infant toward her rather than leaning toward the child.

Sitting

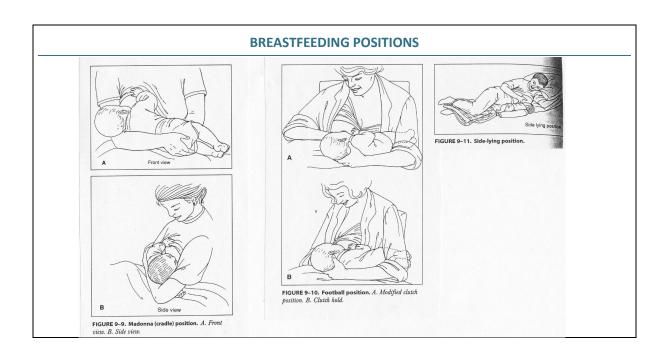
- This is the position most breastfeeding mothers use. The mother's back may be resting on the chair's back and her feet crossed or raised on a stool.
- Make sure infant's and mother's stomachs are facing each other.

Side-Lying

- More comfortable for the mother after delivery, this position enables her to rest while breastfeeding.
- Both mother and infant are lying on their sides, facing one another.

American Football

- This position is best used:
 - after a Caesarean section
 - when the nipples are painful
 - to breastfeed twins
- The mother is comfortably seated with the infant under her arm. The infant's body passes by the mother's side and the child's head is at breast level.
- The mother supports the infant's head and body with her hand and forearm.



Document #17: Feeding Recommendations for HIV positive mother

- Mothers exclusively breastfeed their infants for the first 6 months, introduce appropriate complementary foods thereafter, and continue breastfeeding for the first 12 months of life.
- The recommendation is for 12 months breastfeeding (instead of 24 months for the general population) because in the first 12 months of a baby's life breastfeeding provides major protection against death from diarrhea, pneumonia and malnutrition, in the same way as it does for babies of HIV negative mothers. After this time the risk of the baby dying from these conditions is lower, but the risk of being exposed to HIV still remains.
- Continued breastfeeding beyond 12 months may be recommended if a woman is not able to provide a safe replacement for breast milk or is unsure of her HIV status. In this case feeding recommendations are the same as for the general population. Mothers in these situations may need reassurance that breastfeeding is the safest option for their babies
- When mothers stop breastfeeding at or before 12 months, it is recommended to be done gradually over the course of one month. (Stopping breastfeeding abruptly is NOT advisable.)
- If infants and young children are known to be HIV positive or are of unknown status, mothers are strongly encouraged to exclusively breastfeed for the first six months of life and continue breastfeeding, as per the recommendations for the general population; that is, up to two years or beyond. It is recommended that infants and young children known to be HIV positive should all be started on lifelong antiretroviral treatment as soon as possible after testing positive for HIV.
- The risk of transmission is greater if a baby is given other foods or drinks at the same time as breastfeeding during the first months of life. This is known as mixed feeding. Other food or drinks may cause diarrhoea and damage the gut, which might make it easier for the virus to enter the baby's blood.

Note: Where wet-nursing is acceptable, an HIV positive mother could consider this as long as a set of criteria are met.

FEEDING RECOMMENDATIONS FOR HIV-POSITIVE MOTHERS

Following the recommendation of the National Health Authority, an HIV-positive mother either breastfeeds exclusively or exclusively uses replacement feeding.

HIV transmission is increased by mixed feeding—that is, breastfeeding plus replacement feeding. She introduces complementary feeding at six months.

After six months, if she has been breastfeeding, she continues to breastfeed up to 12 months.

At Each Visit

- Ask the mother how she is feeding her baby.
- Check on the baby's growth and health.
- Ask how the mother is coping with her health and whether she has any difficulties.

Follow Breastfeeding Practices

- Ask the mother what other foods and liquids, including milk or water, she is giving her baby.
- Ask how often she feeds the baby during the day and during the night.
- Ask whether she uses both breasts at each feeding.
- Ask how often the baby urinates each day (should be at least six times).
- Observe the mother breastfeeding, check the mother's breasts and suggest any needed improvements in technique.

Document #18: How to Transition to Replacement Feeding after 12 months

The infant's well-being is the most important factor in deciding whether to keep breastfeeding or to transition to replacement feeding. Replacement feeding means that the infant is no longer exposed to HIV through the mother's breastmilk. If the mother cannot replace breastmilk with another type of milk (animal or formula), she should continue breastfeeding to make sure her child gets enough food to grow, develop, and be healthy.

Transitioning

- If suitable breastmilk substitutes are not available or not provided appropriately, the infant risks becoming malnourished.
- If breastmilk substitutes are not prepared safely, the infant may be at increased risk of diarrhea.
- If breastfeeding cessation is too rapid and infants are not prepared for the transition, they can become dehydrated, anxious, disoriented, and unhappy. They may cry excessively or refuse food, making the transition more difficult for themselves and their families.
- Infants need to learn to cup feed before breastfeeding cessation. Cup feeding requires the caregiver's patience and time.
 - Teach the baby to drink from a cup while you are still breastfeeding.
 - Start by replacing one breastfeeding with a cup of formula; increase the frequency of cup feeding every few days.
 - Stop breastfeeding completely once the baby can drink from a cup.
 - Gradually replace the breastmilk with formula or animal milk.
- To avoid breast engorgement, express and discard milk when your breasts feel too full.
- Early breastfeeding cessation is not recommended for HIV-infected infants.
- Do not dilute animal milks or add sugar. However, special preparation is still required for fresh and powdered milk.
 - Fresh animal's milk must be boiled to kill any bacteria.
 - To powdered or evaporated milk, add clean, boiled water, following the directions on the 0

Breastmilk Substitute Requirements after 12 Months

AGE	AVERAGE AMOUNT OF MILK PER DAY
12 up to 24 months	500 ml

Document #19: Replacement Feeding with Commercial Infant Formula

- If replacement feeding from birth is necessary, commercial infant formula milk should be used for the first six months because it provides appropriate nutrients for the baby's growth and development. After that boiled cow's milk or commercial infant formula can be given until 12 months, and thereafter un-boiled cow's milk can be given.
- The negative aspects, concerning the higher risk of infection or malnutrition, could be reduced by ensuring that the recommended conditions to safely formula feed are fully met.
- For the mother who is switching from breastfeeding to replacement feeding, it is important that she stops breastfeeding gradually while introducing her baby to replacement feeding.

Commercial infant formula must be prepared carefully according to the instructions on the label, and given in quantities appropriate for the child's weight and age. Information about the volume of feeds is also included on the label.

Formula is expensive, and a continuous supply is needed to prevent malnutrition.

Commercial Infant Formula Requirements during the First Six Months

монтн	500G TINS NEEDED PER MONTH	450G TINS NEEDED PER MONTH
First month	4 tins	5 tins
Second month	6 tins	6 tins
Third month	7 tins	8 tins
Fourth month	7 tins	8 tins
Fifth month	8 tins	8 tins
Sixth month	8 tins	9 tins

How to Prepare Commercial Infant Formula for Feedings

- Using soap and clean water, wash hands as well as all utensils, containers, and cups.
- Read or have someone read directions for mixing the formula given on the formula tin.
- Boil water for five minutes then let it cool.
- Measure the milk powder needed for one feed; mix it with the correct amount of cooled boiled water; use a cup to offer the infant an appropriate amount of formula.

Daily Formula Amounts: Six Months

AGE IN MONTHS	# DAILY FEEDS X FEED QUANTITY	DAILY TOTAL
0 to <1	8 feeds x 60 ml/feed	480 ml
1 to <2	7 feeds x 90 ml/feed	630 ml
2 to <3	6 feeds x 120 ml/feed	720 ml
3 to <4	6 feeds x 120 ml/feed	720 ml
4 to <5	6 feeds x 150 ml/feed	900 ml
5 to <6	6 feeds x 150 ml/feed	900 ml

At Each Visit

- Ask the mother how she is feeding her baby.
- Check on the baby's growth and health.
- Ask how the mother is coping with her health and whether she has any difficulties.

Follow how Mother Is Using Replacement Feeding

- Ask what kind of milk she is feeding her baby.
- Ask to see the tin to learn whether she is using a commercial formula or canned milk.
- Ask how many tins of formula or milk she buys each month.
- Ask how much the milk or formula costs per month and whether she has money for the next month's supply. If she expresses concerns, find an appropriate referral of support services.
- Ask her to show you how she prepares a serving of formula or milk.
- Observe the quantity used and the cleanliness.
- Ask how often she feeds the baby during the day and during the night.
- Ask her what container she uses to feed the baby with the replacement feeding.
- Ask whether she is breastfeeding, and how often.
- If the mother is preparing infant formula incorrectly, demonstrate the proper method.

Document #20: Family Planning, Nutrition, and **Breastfeeding**

Timing Pregnancy to Improve Nutritional Status of Women and Child **Survival**

- Delaying first pregnancies gives adolescents and young women the opportunity to reach their full adult growth before becoming pregnant, protecting their health and that of their children.
- Spacing children at least three years apart allows each baby to grow well and the mother to recover fully before she undergoes another pregnancy.
- Spacing the next pregnancy at least 36 months after the last birth reduces the risk of stunting and child mortality.
- Spacing also permits the mother to give her full attention and care to a young child until the child is three years old.
- Having fewer children means better access to more food for the entire family.

Other Family Planning Methods

Prior to Six Months Post Delivery

LAM

After Six Weeks Post Delivery

- Minipills
- Progesterone-only injectables
- Implants

After Six Months Post Delivery

Combined oral contraceptives

At Any Point

- Barrier methods
- Intrauterine devices
- Sterilization of either partner
- Natural family planning methods

Document #21: Messages on the Lactation Amenorrhea Method

Introducing the Lactation Amenorrhea Method

- The lactation amenorrhea method uses breastfeeding to space births.
- Birth spacing by three years or more is vital for maternal and child health and survival. It:
 - helps save lives
 - gives the mother's body time to replenish its nutritional stores
- The lactation amenorrhea method is more than 98 percent effective at preventing pregnancy, if three criteria are met:
 - Amenorrhea—that is, a woman has no menstrual periods.
 - Exclusive breastfeeding. (The mother must breastfeed at least every four hours, with an interval of no longer than six hours at night.)
 - The infant is under six months of age.
- When a woman no longer meets one of the three criteria, she needs to use another family planning method to prevent pregnancy.

Benefits

- The lactation amenorrhea method is universally acceptable.
- It is more than 98 percent effective.
- It is started immediately after delivery.
- It promotes maternal and child health.
- It does not require products or devices.
- It is accepted in most cultures.
- It acts as a preliminary step to using other contraceptive methods.

Disadvantages

- The method can only be used during a limited period of time (six months after birth).
- It does not protect against HIV or other STIs.
- It can only be used by breastfeeding women, and exclusive breastfeeding may be difficult to maintain.

Who Can Use the Lactation Amenorrhea Method

- All breastfeeding women up to six months postpartum can use LAM.
- Working women can use LAM, however, LAM's effectiveness is reduced if between-feeding intervals extend more than four hours during the day or more than six hours at night. Expressing milk (up to 10 percent of nursing time) counts as feeding. Mothers who are separated from their babies during the day may try more frequent feeding at night.

Messages on the Lactation Amenorrhea Method and Other Family **Planning Options**

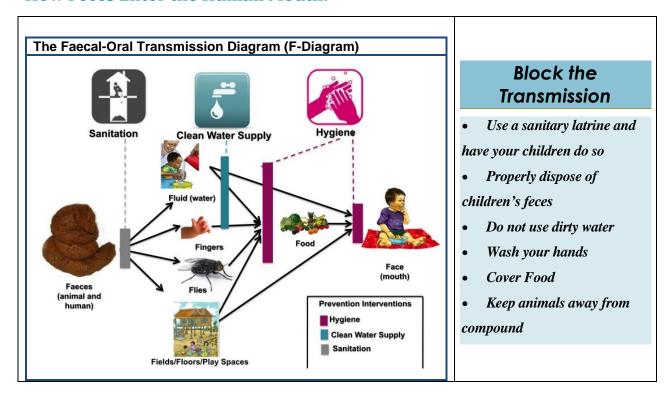
For Mothers and Fathers

- When the baby is older than six months or if the mother does not meet one of the LAM criteria, wives and their husbands should visit the health facility or a community-based reproductive health agent to obtain another family planning method.
- Do not wait until the baby is six months old to decide on a family planning method

Document #22: The Diarrhea Transmission Cycle: The Fecal-Oral Route

Pathogens and parasites found in human excreta, if ingested, can result in illness, including diarrhea. Diarrhea leads to **both** malnutrition and death, particularly in small children.

How Feces Enter the Human Mouth:15



- **Fluid/water.** When you drink water that has been contaminated by feces.
- **Fingers.** By direct transmission: when hands are not washed after defecation or after contact with feces on the ground (e.g., when small children are crawling) and then are put into the mouth. Or by indirect transmission, as when food is prepared or eaten with contaminated, unwashed hands or using dishes, cups, or utensils handled with contaminated, unwashed hands.
- **Flies.** Because flies sit on feces and then sit on food.
- **Food.** When people eat food that flies have been sitting on.
- Field. When soil contains feces due to direct defecation or other means; unwashed hands that have worked the soil and improperly cleaned and cooked crops from the fields can enable feces to be ingested.

¹⁵ Preventing Moderate Acute Malnutrition (MAM) through nutrition-sensitive interventions. CMAM Forum Technical Brief, Dec 2014.







Document #23: Building a Hand Washing Device

A tippy tap helps you wash your hands when you should—even with scarce water. And making one is easy:

- 1. **Decide on the design** of your hand washing station: Will it sit, hand, or hang and tip?
- 2. Find a vessel and spout—a hollow tube such as a pen casing or pawpaw stem. Wash vessel and spout.
- 3. **Poke a hole in the vessel for the tube.** Use a sharp knife, nail, or screw driver, heating it first. Make the hole small (a bit smaller than the tube) and as low on the container as you can (about two finger widths from the bottom). Slowly and carefully push the tube into the hole. Be careful not to push the hole so big that it leaks.
- 4. **Test the water flow.** When using a Highland bottle: Water flows when the cap is unscrewed and stops when the cap is tightly shut. With a Jerry can or gourd: Water flows when the cap on the pen or plug in the tub is removed. If you don't have the original cap, just find an old stick to plug up the flow.
- 5. **Set up the washing station.** Put one tippy tap by the latrine and another near where you cook and eat; tie a string around its neck and hang. Or set on a stable shelf. Hang or place an old shallow can or plastic bowl for soap or ash for washing.





How To Wash

- 1. Wet hands with running water.
- 2. Rub with soap or ash for the time it takes to sing "Happy Birthday" (about 30 seconds).
- 3. Clean between fingers, under fingernails, up to wrists. Scrubbing and soap or ash dislodges and remove germs.
- Rinse hands with water poured from jug or tippy tap. Then air-dry—don't pick up germs from a dirty towel!

IMPORTANT! You can wash your hands with "dirty" water and still get them cleanas long as you use soap and *pour* water over your hands—no dipping into a bowl! The soap or ash lifts the dirt; water flushes off germs







Document #24: Discussion Using an Illustration

Why Use Picture Stories?

- They permit impersonal discussions of issues that may be personal.
- They open the door for indirect questions—and more accurate answers—about behaviors. They are particularly useful in sensitive situations where, if asked a direct question, the mother or caregiver may answer what she thinks that person wants to hear.
- They make it easier to probe for more information: You can ask what might happen next.

Representative Questions to Ask to Open a Dialogue

ORPA

Ask for Observations

- What is happening in the picture? How old do you think the baby is?
- What are the characters in the picture doing?
- How does the character feel about what he was doing? Why did she do that?

Ask for Reflections

- Who do you agree with? Why?
- Who do you disagree with? Why?
- Are there other behaviors that the character(s) should be sure to do or not do?
- What is the advantage of adopting the practice shown in the picture?

Personalize

- What would people in this community do in the same situation? Why?
- What would you do in the same situation? Why?
- What difficulties might you experience? Would you be able to overcome them? How?

Repeat Key Messages, Then Explore Actions

- If you were the mother (or another character), would you be willing to try the new practice?
- Can you tell me what difficulties that character might have? What would you recommend to remove these difficulties? How would you overcome any barriers to trying the new practice?
- What doable actions can you try? (Together with the mother or caregiver, explore the person's ideas.)

Document #25: Listening and Learning Skills, and **Building Confidence and Giving Support Skills**

Use helpful nonverbal communication

- Keep your head level with the mother's.
 - Pay attention.
 - Nod your head.
 - Take your time.
 - Use appropriate touch.
- Ask open-ended questions—that is, ask questions that start with what, why, how, or where rather than questions that require merely a yes or no answer.
- Use responses and gestures that demonstrate your interest.
- Reflect back on what the mother said—that is, repeat her ideas back to her using your own words.
- Empathize: Demonstrate that you understand how she feels.
- Do not use words that sound judgmental (e.g., words that suggest you believe what she is doing is wrong or bad).

Building Confidence and Giving Support skills

- Accept what a mother/father/caregiver thinks and feels (to establish confidence, let the mother/ father/caregiver talk through her/his concerns before correcting information)
- Recognize and praise what a mother/father/caregiver and baby are doing correctly
- Give practical help
- Give brief, relevant information
- Use simple language
- Use appropriate counselling card or cards
- Make one or two suggestions, not commands

Document #26A: GALIDRAA Negotiation Checklist

Greet the mother and be friendly. Establish her confidence.

Ask the mother about feeding practices, her children's ages, and their feeding status.

Listen to the mother.

Identify feeding challenges and their causes. With the mother, choose one challenge to overcome.

Discuss different feasible options with the mother.

Recommend and negotiate doable actions. Present options and negotiate with the mother to help her choose one practice to try.

Agree on which practice the mother will try; ask her to repeat the agreed-upon practice back to you.

Appointment made for follow-up visit.

Document #26B: Observation Checklist of GALIDRAA Counselling Steps

Na	Name of Counsellor:				
Na	Name of Observer:				
Da	Date of visit:				
Dic	for yes and × for No) I the Counsellor It Listening and Learning skills:				
	Keep head level with mother/parent/caregiver Pay attention (eye contact) Remove barriers (tables and notes) Take time Use appropriate touch Ask open questions Use responses and gestures that show interest Reflect back what the mother said Avoid using judging words				
	Allow mother/parent/caregiver time to talk				
	Accept what a mother thinks and feels Listen to the mother/caregiver's concerns Recognize and praise what a mother and baby are doing correctly Give practical help Give brief, relevant information Use simple language Make one or two suggestions, not commands				
GALIDRAA Counselling Steps					
Dic	the counsellor GREET the mother/caregiver ASK and LISTEN to mother/caregiver				
	c mother or caregiver: Child's age Checking child's growth curve (if GMP exists in area) Checking recent child illness				

Bre	astfeeding (with mother):
	Not breastfeeding
	Assess the current breastfeeding practice
	Check for breastfeeding difficulties
	Observe a breastfeed
Flu	ids:
	Assess 'other fluid' intake
Foc	ods:
	Assess 'other food' intake
Act	ive Feeding:
	Ask about whether the child receives assistance when eating
Ну	giene:
	Check on hygiene related to feeding
Did	the counsellor?
	IDENTIFY any feeding difficulty
	Prioritize difficulties (if there is more than one)
Red	cord prioritized difficulty:
DIS	CUSS, RECOMMEND
Did	the counsellor?
	Praise the mother/caregiver for doing recommended practices
	Address breastfeeding difficulties e.g. poor attachment or poor breastfeeding pattern with prac-
tica	ıl help.
	Discuss age-appropriate feeding recommendations and possible discussion points
	Present one or two options that are appropriate to the child's age and feeding behaviours
	Help the mother/caregiver SELECT AGREED UPON BEHAVIOUR that she or he can try to address feeding challenges
☐ tion	Discuss appropriate practices from <i>Reference Materials</i> relevant to the mother or child's situa-
	Ask the mother/caregiver to repeat the agreed-upon new behaviour
Red	cord agreed-upon behaviour:
	Ask the mother/caregiver if she or he has questions/concerns
	Refer as necessary
	Suggest where the mother/caregiver can find additional support
	Agree upon a date/time for a FOLLOW-UP APPOINTMENT
	Thank the mother/caregiver for her or his time

Document #26C: Initial Visit Negotiation Record

	COMMENT
Name	
Age	
Feeding Difficulty(ies) Identified	
Options Suggested	
What Mother Agreed To Try	

Document #27: Negotiation Checklist for Follow-Up Visits

The full process of negotiation requires at least two visits: the initial visit and a follow-up visit a week or two after the first one. If possible, schedule a third visit to maintain the practice or to negotiate another practice.

Second Visit: Questions to Ask

- For visits after the initial one, cover these topics:
- Ask whether the mother tried the agreed-upon practice or continued it. (If she did not try the practice, ask why not.)
- Congratulate the mother for trying or continuing the new practice.
- Ask what happened when she tried or continued the new practice. What did she think of it?
- Ask whether she made any changes to the new practice, and if so, why and what?
- Ask what problems or difficulties she had and how she solved or overcame them.
- Listen to the mother's questions, concerns, or doubts.
- Ask whether she likes the practice and whether she thinks she will continue it.
- Praise the mother; motivate her to continue the practice.
- Remind the mother to take the child to be weighed (i.e., to attend the well-baby clinic).
- Tell the mother where she can get support from community-based health workers, health centers, and mother groups.
- If necessary, encourage her to try a new practice and agree on the one she will try; have her repeat the agreement in her own words.
- Agree on a date for the next visit.

Third Visit: Questions to Ask

Before making the visit, check on the age of the child. Based on that information, decide whether the mother should continue the current practice or try a new one.

Maintain the New Practice

- Ask the mother whether she has continued the new practice.
- Congratulate her if she has.
- If she has not, ask why not.
- Did she make any changes to the new practice, why, and what?
- Find out what difficulties she had and how she solved them.

- Listen to the mother's questions, concerns, or doubts.
- Discuss the recommendations made during the second visit. For example, if the new practice was exclusive breast feeding, remind the mother that when her baby reaches the age of six months, she must give the child other foods besides breastmilk.

Negotiate a New Practice

- Encourage the mother to try another new practice.
- Ask her which recommendation she thinks she can carry out.
- Find out whether she thinks she can practice it every day.
- If she thinks she can implement this new practice twice a week and the previous for the rest of the week, encourage her to give it a try.

Document #28: Practice Case Studies: Adolescents and Women's Nutrition

Case Study 1

The Situation: Kebbet is four months pregnant but has not yet visited the health clinic.

The Visit: The health worker asks Kebbet about her pregnancy and listens carefully. The fact that Kebbet has not attended the antenatal clinic is a problem. (A participant should explain that visiting the prenatal clinic is important to ensure the pregnancy is going well and to receive tetanus-toxoid vaccines and iron-folic acid [IFA] supplementation.) The health worker also reminds Kebbet that is important for her to eat well—one additional meal each day, including as much meat as possible, as well as colorful fruits and vegetables. Kebbet should also use iodized salt to season not only her own food but also the family's food.

Case Study 2

The Situation: Hawa is a recently married 18-year-old woman.

The Visit: The health worker has to find out about Hawa's eating habits and overall nutrition. The health worker also has to listen carefully to Hawa to identify problems and their causes. Specifically, Hawa needs to understand her body is still developing and she has to eat well to allow her body to develop more. At each meal, she needs to eat animal-source foods, as well as brightly colored fruits and vegetables. The health worker should urge her to delay her first pregnancy while her body continues to develop. Finally, the health worker should suggest that Hawa go the health facility for advice on family planning and to be checked for anemia.

Case Study 3

The Situation: Queta has three daughters between the ages of 12 and 16.

The Visit: The health worker needs to ask questions about the nutrition practices of the mother and her daughters, listen carefully, and then identify problems and their causes. After deducing that Queta's children were spaced closely, the health worker should explain the importance of good nutrition. Queta should eat well and encourage her daughters to do so as well. Queta needs to learn that this means eating animal-source foods as much as possible, dark green leafy vegetables, and orange and yellow fruits and vegetables. The health worker needs to explain how important it is that Queta's daughters delay pregnancy until after age 20 and to space their own pregnancies at least three years apart. Birth spacing ensures bodies are strong enough to have healthy infants. Finally, the health worker should urge Queta and her daughters to go to the health clinic to be checked for anemia.

Case Study 4

The Situation: Thirty-five-year-old Betty has five children and is breastfeeding her youngest, who is 18 months of age.

The Visit: The health worker should ask Betty questions about her nutrition practices and should listen carefully to understand any problems and their causes. The main problem is that Betty, having had many children, is probably weak from the many pregnancies and many months of breastfeeding. The health worker needs to explain to Betty the importance of eating well. Betty should have two additional meals each day that contain meat and animal-source products as often as possible, as well as colorful fruits and vegetables. The health worker should also urge Betty to use iodized salt when preparing her food and her family's. She should also counsel her (and her husband if possible) on the importance of using contraception to defer or prevent additional pregnancies for her health and that of her family, and advise her on appropriate choices.

Case Study 5

The Situation: Faith is in her last month of pregnancy and does not know where she will give birth.

The Visit: The health worker should ask Faith questions about her plans for delivering and feeding her baby. The health worker should then listen carefully and identify any problems that may affect Faith's nutritional status and their causes. The main challenge is to convince Faith to deliver her baby at a health facility. Faith also needs to be checked for anemia and to be given IFA supplementation. Faith should also be counseled on early initiation of breastfeeding (within an hour of birth, before the placenta is expelled) and should be advised on the advantages of breastfeeding exclusively until the baby is six months old.

Case Study 6

The Situation: Queta, 21, has three daughters between the ages of two and six.

The Visit: The health worker should learn about community practices regarding pregnancy and child rearing, listen carefully to Queta, then identify the potential problems in Queta's situation, as well as their causes. The main issue is that Queta's pregnancies were too close to one another and started when she was very young. The health worker should stress the importance of eating well to help her body recover from the pregnancies, and suggest she try to eat red meat as often as possible. She should check Queta for anemia. The health worker should suggest Queta wait at least three years before having her next child so her body can fully recover. The health worker should also recommend that Queta speak with her husband about family planning to delay another pregnancy.

Document #29: Practice Case Studies: Infants from Birth up to Six Months

Case Study 1

The Situation: You make a home visit to a new mother, Betty, who has a newborn son. She is breastfeeding, and her mother-in-law insists that she give water to her grandson.

The Visit: In visiting mothers, the first job of the health worker is to find out what practices are common among other mothers in the community; to listen carefully to the mother being visited; and then to identify any problems current and potential and their causes. Here, the main problem is the mother-inlaw's insistence that Betty give water to the baby. The health worker has to ask why the grandmother thinks that the baby should take water and if Betty also thinks so. The health worker needs to explain that if Betty breastfeeds correctly and feeds every two or three hours the baby will have all the liquid he needs. One way for her to know is that he will pass urine six or more times in 24 hours, but she should be assured that breastmilk has everything the baby needs, including water. Betty needs to understand that feeding water puts her baby at risk for diarrhea or potential weight loss: That's because water will carry germs that can make the baby sick. In addition, with a stomach full of water, he may feed less. Less feeding will lower breast-milk production, leading to more weight loss.

The health worker should negotiate with Betty and persuade her to agree to practice exclusive breastfeeding for two to three days, and make an appointment to meet again soon after that. The health worker also needs to talk to the grandmother. The health worker should be sure to praise the mother and thank her for her time.

Case Study 2

The Situation: Yamah is breastfeeding her 10-week-old daughter but has decided to give her some porridge to accustom her to eating food.

The Visit: Giving food to a baby before her six-month birthday puts her at risk for malnutrition, diarrhea, and other illnesses; and puts Yamah at risk for too-soon pregnancy and reduced breast-milk production. But before making recommendations, the health worker needs to gently probe about local practices and listen carefully to Yamah. The fact that Yamah wants to give her daughter complementary food before she has reached six months of age is the main issue. The health worker needs to stress that this complementary feeding of porridge before the age of six months is not only risky but is also inappropriate because the baby's body is not ready for family foods. And Yamah needs to understand that for a baby of ten weeks of age, breastmilk alone is sufficient to meet all her needs for food and water. Moreover, EBF brings the baby many health benefits, including resistance to diseases.

The health worker needs to negotiate with Yamah to get her to agree to EBF for several days to see the effect. The health worker should praise Yamah and fix a time for a follow-up visit.

Case Study 3

The Situation: Queta does not think she has enough milk for her four-month-old baby. She and her husband are seeking advice on what they should give to their baby.

The Visit: Why do the parents believe that Queta's milk is not sufficient for the baby? The health worker should ask about: breastfeeding frequency; on-demand feeding, night feeding, emptying one breast before switching to the other, and any additional feedings; the baby's health and weight; frequency of passing urine over 24 hours; and other issues related to Queta's health or concerns. The health worker should also find out about community practices, and then identify potential problems and their causes. The health worker should definitely explain the role of frequent suckling in breast-milk production: The breast is like a factory: The greater the demand for milk, the greater the supply will be. The health worker should also make sure that Queta and her husband understand all the benefits of exclusive breastfeeding until six months of age. The health worker should recommend that Queta continue EBF until her baby is six months old and should arrange a follow-up visit after few days.

Case Study 4

The Situation: Massa works very hard and does not always have time to breastfeed her three-month-old son by day but does breastfeed him at night.

The Visit: As a working mother, Massa has many stresses. The health worker should find out more about these as well as about how other mothers in the community with similar challenges handle the stress. Massa's nighttime breastfeeding should be recognized and praised, and she should be encouraged to keep it up. Further, the health worker needs to recommend that Massa breastfeed before leaving the house in the morning; look into the feasibility of someone else bringing the baby to her workplace; and negotiate with her employer for breastfeeding breaks.

The health worker can also suggest that Massa express her breastmilk so that it can be given to her baby in a cup while she is at work if bringing the baby to her during the day is impossible. The health worker will need to explain how to express breastmilk and how to store it safely. If the health worker cannot teach Massa how to express her milk, she should provide a referral to a place where Massa can learn the techniques.

Case Study 5

The Situation: Mercy says she gives only breastmilk to her four-month-old daughter. But in visiting Mercy, the health worker sees her give the daughter some water. When that observation is mentioned to Mercy, she explains that water is not food or milk. The health worker should address the issues mentioned in practice case study #1, above.

The Situation: HIV-positive Orphelia, living in a village and nine months pregnant, is confused about what to feed her baby after delivery.

The Visit: Orphelia is uncertain about how to feed her child in the context of her HIV status. The health worker should find out more about what Orphelia is thinking and what she knows about how other mothers in her community handle the situation. The health worker should listen carefully to Orphelia. The health worker knows that where Orphelia lives, access to safe water is difficult. For that reason, the health worker advises Orphelia to exclusively breastfeed her baby—to start immediately after birth and give only breastmilk until the baby is six months old. The health worker must emphasize that EBF is very important; that is because mixed feeding—mixing breastfeeding with other drinks or foods—is very dangerous for the baby of an HIV-positive mother and will increase the risk of HIV transmission.

Document #30: Preventing and Controlling Vitamin A Deficiency

Background

Among the serious public health problems of developing countries is deficiency in vitamin A, one of six vitamins (the others being A, D, E, K, B, and C). The impact of avitaminose A is most profound during the first three years of life and during a pregnancy, as women need more vitamins and minerals for themselves and the fetus.

Causes

- Low consumption of vitamin A
- High burden of infections, which burn up vitamin A

Multisystem Effects of Vitamin A Deficiency

Vision: The most common manifestation is night blindness: people have trouble seeing at night. Another disease is xerophthalmia: a dry, thickened, lusterless condition of the white part of the eye. Bitop's spot, a spot-like, white foam, is one of the symptoms. Dryness affects the cornea that eventually starts to "melt, and permanent vision loss follows. Milder forms of deficiency are invisible but also damaging to the health.

Immunity: Lowered immunity puts vitamin A-deficient children at higher risk of infection and thus higher mortality.

Physical Growth: Vitamin A deficiency retards children's physical growth

Anemia: Vitamin A-deficient patients suffer from iron deficiency and anemia.

Reproductive System: Its effectiveness is maintained by vitamin A.

Strategies to Prevent Vitamin A Deficiency

1. Promote Breastfeeding as Source of Vitamin A

Vitamin A in the mother's body passes into the breastmilk, so breastfeeding women must obtain vitamin A supplementation and eat a vitamin A-rich diet. (Women should also get enough vitamin A prior to pregnancy.)

2. Promote Consumption of Vitamin A-Rich Foods

This is especially important in pregnant and lactating women and in children under five. Animal sources are the richest and most fully absorbed by the body.

Representative Vitamin A-Rich Foods

LEAFY VEGETABLES		OTHER VEGETABLES	FRUIT	ANIMAL-SOURCE FOODS
Spinach	Coriander leaves	Pumpkin	Jackfruit	Liver
Water spinach	Halencha leaves	Sweet potato	Mango	Fish oil
Mint leaves	Gourd leaves	Carrot	Ripe papaya	Egg yolk
Sweet potato leaves	Radish leaves			Butter

3. Provide High-Dose Vitamin A Supplements to Lactating Women and Children **Under Five**

AGE OR STATUS	QUANTITY	DOSE
Pregnant woman*	1 capsule 10,000 IU 1 capsule 25,000 IU	Daily Weekly
Aged 6–11 months	1 capsule 100,000 IU	Once
Aged 12 months and above	1 capsule 200,000 IU	Every four to six months
Postpartum mother*	1 capsule 200,000 IU	Within 42 days of delivery

^{*}Refer to country protocol

Supplementation may be provided during routine health services, national immunization days, child health days, or micronutrient days.

4. Treat Conditions and Diseases with Vitamin A

Guidelines for Treatment with Vitamin A*

CONDITION	PATIENT AGE	DOSAGE AND FREQUENCY
Severe and Moderate Acute Malnutrition	Children 6–11 months	100,000 IU on Day1, Day 2 and Day 14
Acute Mamutition	Children 12–59 months	200,000 IU on Day 1, Day 2 and Day 14
HIV Infection	Children 6–59 months	Every 6 months
Persistent Diarrhea	Children 6–11 months	100,000 IU once
	Children 12–59 months	200,000 IU once
Measles	Children 6–11 months	100,000 IU on Day 1, Day 2, and Day 14
	Children 12–59 months	200,000 IU on Day 1, Day 2, and Day 14
Xerophthalmia	Children birth to 6 months	50,000 IU on Day 1, Day 2, and Day 14
	Children 6–11 months	100,000 IU on Day 1, Day 2, and Day 14
	Children 12–59 months	200,000 IU on Day 1, Day 2, and Day 14

^{*} Refer to national integrated management of childhood illnesses guidelines.

5. Fortified Foods

Populations in industrialized countries get an abundant supply of vitamin A, not just in the natural diet, but also through industrial fortification of foods, such as margarines and vegetable or canola oil. Many Central American countries, including Guatemala and Honduras, have fortified sugar. West African countries are fortifying cooking oil and wheat flour.

Document #31: Preventing and Controlling Anemia

Background

Anemia is a condition in which the red cells in the blood are too few in number to meet the body's physiological needs (which vary by age, sex, altitude, and smoking and pregnancy status). Almost 2 billion people globally—over 30 percent of the world's population—are anemic; all anemia contributes to an estimated 20% of maternal deaths (WHO), and that IDA is the third ranking cause of global DALYs (Global Burden of Disease 2010). The most vulnerable, the poorest, and the least educated—including women and children—are affected disproportionately. According to the World Health Organization, the health consequences are "steady but devastating."

Hemoglobin Values Defining Anemia for Population Groups

AGE OR SEX GROUP	HEMOGLOBIN VALUE DEFINING ANEMIA (G/DL)
children 6–59 months	<11.0
children 5–11 years	<11.5
children 12–14 years	<12.0
nonpregnant women older than age 15	<12.0
pregnant women	<11.0
men older than age 15	<13.0

Types and Causes

- Iron deficiency due to inadequate iron intake or poor iron absorption is a major cause of anemia. Deficiency of vitamin B12, folic acid, zinc, and vitamin A and eating foods that are poor sources of iron are also associated with iron deficiency.
- Iron deficiency resulting from infection—specifically by hookworm or from schistosomiasis or malaria—is the second major cause of anemia. Almost 80 percent of children in rural areas of less developed countries have hookworm.

Signs and Symptoms

- physical weakness, poor mental concentration at work
- burning and pain in upper and lower limbs
- dizziness, drowsiness, and a high rate of palpitation when standing from sitting or lying position
- pale appearance, especially in the hands, whites of the eye, and underneath tongue

- sores in the corner of the mouth and cracks in the tongue
- tiredness and loss of appetite

Consequences

During Pregnancy: The baby's birth weight may be low. The risk of maternal death from excessive bleeding increases. Delay in delivery may result in the newborn's death. Twenty percent of all maternal deaths are associated with anemia.

Children: Anemia impairs physical and cognitive development in children; the World Health Organization estimates that 40 percent of preschoolers are anemic. School performance suffers.

Adults and Older People: Decreased productivity and lowered immune capacity are consequences in adults. Severe anemia causes deposition of water in lower limbs and heart attack.

Strategies to Prevent Iron Deficiency

1. Increase Iron Intake

Advocate for consumption of iron-rich foods, particularly among pregnant and lactating women and children under the age of five.

Encourage iron-folic acid (IFA) supplementation and treatment. In malaria endemic areas supplementation of children under 5 years should be implemented in conjunction with measures to prevent, diagnose and treat malaria.

Iron Supplementation and Treatment Dosage and Duration by Vulnerable Group

TARGETS	DOSAGES	DURATION	
PREVENTIVE SUPPLEMENTATION			
pregnant and lactating women	Iron: 60 mg/day Folic acid: 400 mcg/day	At least six months. Take IFA from conception until three months postpartum	
	TREATMENT		
children under 2	Iron: 25 mg/day Folic acid: 100–400 mcg/day	Three months	
children aged 2–12	Iron: 60 mg/day Folic acid: 400 mcg/day	Three months	
adolescents and adults	Iron: 120 mg/day Folic acid: 400 mcg/day	Three months	

2. Control Infection

Helminthiasis Control and Deworming

TARGETS	TREATMENT	WHEN
pregnant women	Mebendazole 500 mg <u>OR</u> Albendazole 400 mg	One dose in the second trimester of pregnancy and another dose in the third trimester
children older than 12 months	Mebendazole 500 mg <u>OR</u> Albendazole 400 mg	Routine dose every six months

Document #32: Preventing and Controlling Zinc and Calcium Deficiencies, and Iodine Deficiency Disorders

Preventing and Controlling Zinc Deficiency

Background

According to Lancet 2013, 17% of the world population is at risk of deficiency on the basis of analysis of dietary intake. Pregnant women and young children are at higher risk of zinc deficiency. Zinc deficiency is very hard to assess and there are very limited data for global estimates.

Causes

- low consumption of zinc
- high burden of infections, which use up zinc
- high zinc needs during growth

Consequences

Children may be vulnerable to zinc shortages during infancy and adolescence; these shortages may be associated with deficits in cognitive development. Mild to moderate deficiency accounts for some 16 percent of lower respiratory tract infections, 18 percent of malaria infections, and 10 percent of diarrheal disease.

Strategy

Advocate for consumption of zinc-rich foods, such as animal source products, particularly among pregnant and lactating women and children under the age of five.

Treat all cases of diarrhea with zinc in addition to low osmolarity oral rehydration therapy.

Zinc Treatment for Diarrhea

GROUPS	DOSING	DURATION
children under six months	10 mg	10–14 days
children older than six months	20 mg	10–14 days

Preventing and Controlling Calcium Deficiency

Background

In pre-eclampsia there are often problems with the placenta, along with increased blood pressure, that can reduce blood flow and therefore oxygen and nutrient supply to the baby. These conditions may result in intra-uterine growth retardation and possibly early delivery, which represents, in lower-income settings, a leading cause of infant mortality.

Pre-eclampsia may also pose serious risks to the mother, such as kidney and liver problems, potentially progressing to stroke or seizures (eclampsia). Hypertensive disorders of pregnancy are associated with preterm birth, low birth weight and maternal mortality.

Causes

- low consumption of calcium
- Calcium is an essential mineral that assists with many of the body's processes, such as maintaining cell membranes in nerve as well as muscle contraction

Consequences

Pre-eclampsia is a hypertensive disorder that develops in approximately 5% of all pregnancies, usually after about 20 week gestation. Low calcium intake is thought to cause high blood pressure.

Strategy

During pregnancy and lactation calcium supplementation is often recommended to meet the body's increased demands and for the overall health of mother and child.

Calcium Supplementation during pregnancy

GROUPS	DOSING	DURATION
pregnant woman	1.5 g (3 tablets, 3 times daily with meals)	Entire pregnancy

Preventing and Controlling Iodine Deficiency

Background

Globally, more than 1.9 billion people (Lancet 2013) may be at risk for iodine deficiency; recent estimates point to more than 1 billion people experiencing some degree of goiter, one of iodine deficiency's effects. Pregnant women and young children are most at risk of iodine deficiency.

Causes

Inadequate intake of iodine causes iodine deficiency disorder (IDD), particularly in regions where quantity of iodine in the soil is low.

Consequences

lodine deficiency is one of the most common preventable causes of mental retardation and brain damage, with "endemic cretinism"—a profound mental retardation—at the severe end of the spectrum of IDDs. Lower mean birthweight, higher infant mortality, hearing impairment, impaired motor skills, and neurological dysfunction are also associated with IDD.

Other Effects of Iodine Deficiency Disorder

IN CHILDREN	IN WO	OMEN
Impaired physical growth Chilling Apathy	Goiter Irregular menstruation Fatigue, dementia, and apathy	Delay in pregnancy Stillbirths

Strategies

- Make available iodized salt for entire population.
- Encourage the consumption of iodized salt for the entire family and of foods rich in natural iodine, such as seafood.
- In regions where the access to iodized salt is less than 20 percent, iodized capsules may be distributed to pregnant women and children under five.

USE AND PRESERVATION OF IODIZED SALT

Preserve iodized salt in a covered glass jar in a darkened place or in a covered clay or plastic pot. Keeping iodized salt in a wet container or brightly lit place may reduce its iodine content.

Use the salt within six months of the iodine's addition to the salt.

Add the iodized salt after cooking the food.

Document #33: Complementary Feeding Practices for Children Aged 6 up to 24 Months

Complementary feeding means giving other foods in addition to breast milk.

About Complementary Feeding

Introduce Complementary Food

- At six months of age, breastmilk alone is not enough for a young child to continue to grow and stay healthy and strong.
- Advise the mother or caregiver to introduce pureed or mashed food twice a day when the baby is six months.
 - Porridge can be made from rice, plantain, cassava, corn, sorghum, sweet potatoes, eddo, or
 - The baby's food should be put in a separate bowl, so the mother or caregiver knows how much the child is eating.
 - Do not add pepper or chili to the baby's food. The pepper kills the appetite and discourages the baby from eating.
 - At 12 months, the baby may start to feed himself or herself; the child needs help to eat all the food served.
- Recommend her to wash her hands and the baby's hands with soap before each meal and snack.
- Encourage the mother or caregiver to help the baby learn how to eat by taking the time and feeding the child patiently. Explain to the mother that she should play with and sing to the child and encourage easting all the food offered. Force feeding or stuffing may discourage the baby from eating and can be harmful.
- Explain that the porridge is just right and good for the baby when it is thick enough to slowly fall off the spoon. A watery or thin porridge is not healthy for the baby; it does not provide enough nutrients for the baby to grow strong and healthy.
 - A sticky porridge is difficult for the baby to swallow, making it unhealthy for the child.
 - Porridge should get thicker as the baby grows older; making sure the child is still able to easily swallow it without choking. To thicken porridge, add more flour or paste.

Continue Breastfeeding—and Space Your Pregnancies

Breast milk supplies ALL of the 'energy needs' of a child from birth up to 6 months, about 60% of 'energy needs' of a child from 6 up to 12 months and 40% of 'energy needs' of a child from 12 up to 24 months. (This fact can be posted throughout the training.)

- Counsel the mother to continue breastfeeding until the baby is two years old to make sure the baby grows strong and stays healthy.
 - From 6 up to 24 months of age, give the child breastmilk as often as he or she wants (at least eight times) during the day and night.
- Advise the mother to space pregnancies at least three years apart for her health and the health of the baby.
 - When the baby is six months old, the mother can no longer use LAM and needs to adopt another family planning method.
 - Mothers should not wait until the baby is six months old to decide on which family planning method to use.
 - Having sex will not spoil breastmilk. A pregnant woman can breastfeed safely.

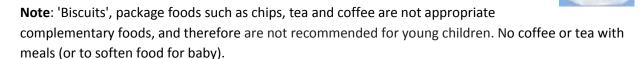
Consume a Varied Diet

- For women, children, and other family members to get the vitamins they need, their diet needs to be varied.
- Counsel the mother to enrich the baby's food at each meal with two to three different types of colorful foods to help the baby grow and get strong.
 - Colorful foods enrich the baby's diet. They include vegetables and fruits that are orange and red, such as carrots, orange-fleshed sweet potatoes, and ripe mango and papaya; dark green leafy vegetables, such as kale and chard; and avocado, beans, eggs, peanuts, and peas or lentils.
 - Animal-source foods such as fish, eggs, chicken, liver and other meat, and milk should be mashed as needed and added to the diet whenever they are available. Animal-source foods are especially important to allow babies and children to grow healthy and strong.
 - A little butter, spoon oil, palm oil, vegetable oil, sesame seed, or peanut paste can be added to the baby's food.
 - Advise giving the baby a little bit of fruit every day. In addition to fruit listed above, babies can have bananas, butter pears, plum mangoes, or watermelons. Fruit needs to be well washed and, for younger babies, well mashed or squeezed into juice.
 - Advise that calcium-rich foods such as milk and dairy products, legumes and dark green leafy vegetables can be consumed daily.
 - Other family foods need to be mashed to make them easy for the child to chew and swallow.

Feeding Frequency and Quantity for Children between 6 - 11 Months

- Young children have small stomachs and can eat only small amounts at each meal, so feed young children frequently throughout the day.
- Advise the mother or caregiver to wash hands before feeding the child, and to wash the child's hands, to avoid diarrhea.
- For children between the ages of six and 11 months, explain that the baby needs to eat two to three times each day plus have one or two nutritious pureed or mashed snacks. This will help the baby grow healthy and strong.

- Tell the mother to encourage the baby to eat everything that is given to the child. All foods should be mashed, so the baby can swallow without choking.
- Every day, the baby needs to eat a variety of different foods along with porridge to make sure the child gets all the nutrients he or she needs to grow well.
- Start by giving a 6 up to 9month-old baby half of a 250 ml bowl of colorful food twice daily (three times daily as the baby gets older).
- If the baby is 6 up to 9 months old, mix two tablespoons of porridge with one tablespoon of other foods.
- If the baby is 9 up to 12 months old, mix three tablespoons of porridge or family staple with three tablespoons of other foods.
- Inform the mother/caregiver that by eight months, the baby is usually able to begin eating with his or her hands, thus it is necessary to wash the baby's and mother's hands before feeding. The child should be given small pieces of finger foods, e.g., soft-cooked vegetables or soft ripe fruit, such as bananas, papaya, ripe plum mango, avocado or butter pear; or bread, . Calcium-rich foods like dairy are also important. Caregivers need to remember to help the baby eat all the food that it is served to him or her.
- Tell the mother not to use a baby bottle to feed the baby, as it is difficult to clean and the baby can get diarrhea.
- Recommend using iodized salt to prepare food for the whole family, including the baby.
- Offer 1 to 2 snacks: between meals offer extra foods that are easy to prepare, clean, safe and locally available and can be eaten as finger foods. Snacks can be pieces of ripe mango, papaya, banana, avocado, other fruits and vegetables, fresh and fried bread products, boiled potato, sweet potato





Morning Meal	 Serve rice porridge. Add an egg, oil, or small piece of butter and avocado or papaya, if available.
Morning Snack	Give child one half of a mashed ripe mango or an equivalent amount of mashed papaya, banana, or mango; bread,; or roasted or fried plantain or yam.
Midday Meal	 Serve yam porridge. Add a tablespoon of vegetable oil, a tablespoon of mashed beans, and one-half tablespoon of green leafy vegetables.

Afternoon Snack	Same as the morning snack.
Evening Meal	 Serve cassava porridge. Add a piece of cooked sweet potato or roasted soft plantain, a tablespoon of palm oil, a tablespoon of dried fish or mashed chicken, and mashed vegetables (e.g., carrots, pumpkins, or okra).

Feeding Frequency and Quantity for Children Aged 12 up to 24 Months

- Young children have small stomachs and can eat only small amounts at each meal, so feed the baby frequently throughout the day.
- Always wash hands with soap before feeding and eating.
- Counsel the mother that to ensure healthy growth, the baby needs be fed a meal of family foods plus one or two snacks at least three to four times a day.
 - At 12 months, the baby can begin to eat family foods, such as rice, yam, plantain, cassava, or sweet potato.
 - From the family bowl, a portion can be kept for the baby and be enriched with one or two additional foods—for example, sesame seeds or cassava leaves or other dark leafy vegetables; and milk, meat, fish, egg, mashed beans, peanuts, or other nuts.
 - Whenever available, animal-source foods (e.g.., fish, eggs, chicken, liver and other meat, and milk) should be included for the child to get strong. Calcium-rich foods are also important.
 - At each meal, mix a cup of staple or family foods with three tablespoons of other foods.
 - To support the baby's growth, the child can be given more food if he or she asks for it.
- Advise that the baby also be given snacks at least twice a day between main meals, such as bread, banana, roasted or fried plantain, or yam; the child is growing and needs more food.
- Recommend iodized salt to cook all family food.

Representative One-Day Menu for Children Aged 12 up to 24 Months

Morning Meal	•	Serve rice porridge.
	•	Add half a small butter pear and a banana.
Morning Snack	•	Give child half a plum mango or fried plantain.
Midday Meal	•	To family food, add a tablespoon of palm oil and dried fish.
Afternoon Snack	•	Give child one banana
Evening Meal	•	Add an egg and a small piece of pumpkin to family food.

About Vitamin A and Medicine for Malaria and Worms

Vitamin A

- Vitamin A is important for the baby's eyesight and to help the child fight illness.
- Remind the mother to obtain vitamin A supplementation for the child when he or she turns six months old (and every six months after that until fifth birthday).
 - To obtain child's vitamin A supplementation, look for vitamin A supplementation sessions on national immunization days or at similar events
- Recommend that everyone in the family, including the baby, needs to eat foods rich in vitamin A, such as papaya, mango, and other orange and yellow fruits, as well as orange-fleshed sweet potatoes, dark green leafy vegetables, red meat, liver, and milk.
 - Vitamin A-rich foods enrich breastmilk with vital nutrients to keep babies healthy and strong.
 - Pregnant and breastfeeding women in the household, as well as children aged six months to two years, should get as much animal-source food (i.e., fish, eggs, chicken, liver and other meat, and milk) as possible.
- Advise the mother/caregiver that fortified foods should be eaten when they are available for purchase in stores.

Malaria Prevention

- Malaria causes anemia ("low blood"), which makes family members weak and sick.
- Recommend that all members of the family, especially pregnant women and young children sleep under an insecticide-treated mosquito net to prevent malaria.
- Children and any family member with fever should be brought to the health center to be tested for malaria and treated as early as possible.

Deworming

- In young children, worms cause anemia, which makes them weak and sick.
- Remind the mother that when the child is a year old, he or she needs to be treated with worm medicine every six months until the fifth birthday to maintain healthy growth and prevent anemia.
 - Deworming medicine can also be obtained during national immunization days or similar events.

Hygiene

 Good hygiene and sanitation is important to prevent a runny stomach, worms, and other sickness. It also keeps families healthy.

- Explain that the mother has to wash her hands with soap and water before cooking, handling food, eating, and feeding her child.
- Hands should be washed with soap and water after visiting the toilet or cleaning a child.
- The home and its surroundings should be kept clean.
- Keep the Animals away from living quarters as their manure can cause illness.
- If possible, Give to the child a safe and clean place to play, protected from dirt, animal feces and objects that could be put into the mouth.
- Shoes should be worn to prevent worms.
- A clean cup or bowl should be used to feed the baby. Bottles are hard to clean and germs may cause diarrhea.

Document #34: Active Feeding

What does it mean for mothers, fathers, or caregivers to "actively feed" a young child?

- Active or responsive feeding is a method that encourages the child to eat and to finish his or her meals.
- When feeding himself, a child is easily distracted. Distractions may lead to the child not eating enough, putting him or her at risk for malnutrition
- Let the child eat from his or her own plate, so you will know how much he or she has consumed.
- Sit down with the child and encourage him or her, if needed.
- Offer the child food he or she can hold; young children often want to feed themselves. Encourage self-feeding, but make sure most of the food goes into the child's mouth.
- After washing your hands and your child's hands, use your fingers to feed the child, if that is your preference.
- Feed the child as soon as he or she starts to get hungry.
- Have the child eat in his or her usual mealtime or snack time setting.
- As much as possible, have the child eat with the family to create an atmosphere promoting his or her social and emotional development.
- Do not insist on feeding the child if he or she does not want to eat; wait a bit or put eating off until later.
- Talk to the child or play with him or her while he or she eats.
- Congratulate the child when he or she eats.
- Be sure to involve parents, older children and other family members, and child caregivers in active feeding.







Early Childhood Development

In addition to good nutrition and hygiene, a child needs loving care and communication to grow up strong and happy and smart.

Message for Mothers and Fathers

Children have many things to learn in their first two years: to talk, to walk, to run, to feed themselves. Even newborns are ready to use their eyes and ears and develop loving bonds with their families. Be sure you play and communicate with your baby even before she has words to reply, as this will help her learn and develop.

More Information

- Babies need clean and safe places to explore and play, as they often put things into their mouths. Putting them on a clean mat will help protect them. Remove dirty objects and replace them with clean things they can explore and cannot swallow.
- Pots and cups and spoons are all toys for small children, who learn by grabbing, banging, stacking and watching and copying others.
- When they are ready, children should be allowed to feed themselves although they also need to be encouraged with patience and good humor to eat a variety of different foods.
- At each age children need the opportunity to learn new things, and as they grow and develop they will be able to build on what they know to gain more advanced skills.
- Give your child affection and show love.
- Be aware of your child's interests and respond to them.
- Praise your child for trying to learn new skills.

Document #35: What Health Providers Can Teach Parents or Caregivers about Complementary Feeding

Which questions should be asked of mothers whose babies will soon be six months old?

- Do you know why it is important to wait until your baby is six months old before feeding the child anything besides from breastmilk?
- How often will you need to feed your six- to eight-month-old child?
- How much food should you give your child aged six to eight months?
- What should be the consistency of your baby's first foods?
- What should you feed your child?
- Where can you obtain vitamin A supplements that your child needs when he or she is six months old?
- After your baby has his or her first vitamin A supplementation at the age of six months, when will you return for the second supplementation?
- What immunizations has your child received?

Why encourage mothers, fathers, or caregivers to use iodized salt for the whole family, including children who have begun complementary feeding?

- To ensure the physical and intellectual development of not only the child but also the whole family.
- To prevent goiters and their complications.
- To prevent poor work performance in adults.
- In pregnant women: to prevent miscarriage, stillbirth, low birth weight, and cretinism in the baby.

Which foods are rich in vitamin A in your community?

- Colostrum and breastmilk are important sources of vitamin A.
- Red meat, eggs and liver are the richest food sources of vitamin A.
- Ripe orange and yellow fruits (e.g., papaya and mangoes) are good sources of vitamin A.
- Orange and yellow vegetables (e.g., carrots and pumpkins) as well as liver and green leafy vegetables are good sources of vitamin A.

Why should a baby eat foods rich in iron?

- To gain strength.
- To reinforce the baby's health, as well as the child's physical and intellectual development.

Which foods are rich in iron?

Red meats and small fish are the richest sources; among plants: lentils, legumes and dark green leafy vegetables are also good sources, especially if combined with foods rich in vitamin C, like tomato and lemons and papayas.

What foods are rich in calcium?

Milk and dairy products are the richest sources of calcium; legumes and dark green leafy vegetables and some fish are also good sources.

Why should vitamin A be administered to children every six months from the age of six months to five years?

- Vitamin A supplementation ensures the child's growth.
- Vitamin A reinforces the child's health.
- Vitamin A protects the child from severe forms of infection, such as diarrhea and respiratory diseases, thus reducing the risk of death.
- Vitamin A improves the child's sight and prevents night blindness, which can lead to childhood blindness.

Why should children be dewormed every six months starting at two years of age?

Some worms feed exclusively on blood. If the child has these worms, he or she becomes anemic (thin and weak).

What other nutrition services should be provided by health centers?

- Persistent diarrhea (over 14 days) should be treated with zinc supplements, oral rehydration solution and an extra dose of vitamin A, as recommended in IMCI protocol.
- Check children for anemia and treat as recommended in IMCI protocol
- Provide immunizations for children

Check

Polio 2 + Penta 2 + Pneumococcus + Rota Polio 3 + Penta 3 + Pneumococcus + Rota Vaccines

Provide

Measles Yellow Fever (if applicable)

What nutritional advice to give a mother and child (birth up to 24) months) to stay healthy?

- Use family planning to ensure that pregnancies are spaced—minimum 3 years
- Eat a diversified diet and two additional meals while breastfeeding
- During pregnancy and lactation take iron-folic acid supplementation for six months(provide tablets for at least one month)
- Keep the environment of the compound free from the feces of animals and children
- Wash hands with soap before preparing foods, eating and feeding the child
- Use latrines and wash hands with soap after each use

What are the essential nutrition supplies and how can health workers maintain adequate stocks?

- Capsules of vitamin A
- Iron-folic acid
- Mebendazole or Albendazole
- Iron syrup
- Ready to use therapeutic foods (RUTF) (if applicable)
- Middle-upper arm circumference (MUAC) tapes
- Scales (refer to country guidelines)
- Order drugs and supplies several months before your stocks run out as you do with other essential drugs. Consider your leftover stocks. For campaigns, order in relation to the target coverage; use the results of the previous supplementation.

How can health workers help mothers, fathers, or caregivers make sure that their children are properly fed and that they obtain the nourishment they need?

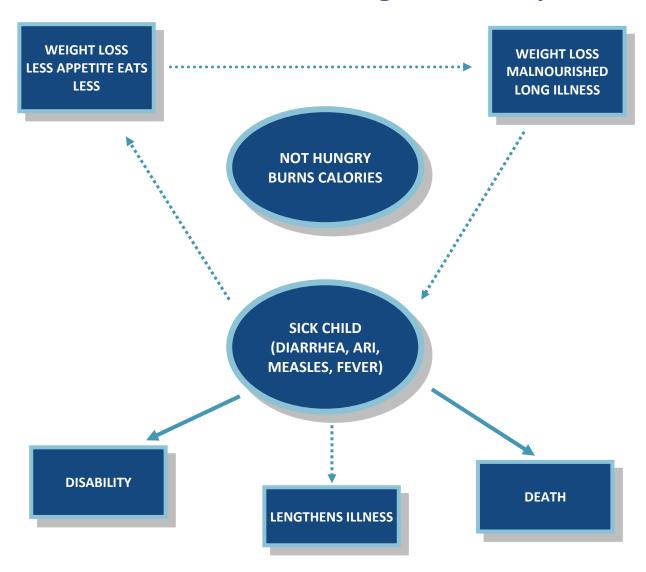
- Discuss age-appropriate feeding recommendations with the mother or caregiver and, if possible, with the father, grandmother, and the rest of the family.
- Congratulate and encourage mothers to continue breastfeeding for two years.
- Encourage parents to give their children many different types of food, including foods rich in vitamin A and iron. Emphasize that even small quantities of animal foods are especially important for growth.
- Encourage parents to have a garden and to grow different green leafy vegetables and orange and yellow vegetables and fruits and to raise poultry.
- Raise awareness among the population to use only salt that has been iodized.

- Encourage parents to bring their children to the health center in the case of illness, malnutrition, weight loss, or edema.
- Encourage parents to go to health centers or community outreach to obtain needed immunizations (e.g., measles at nine months); for vitamin A supplementation at six months; and for deworming beginning at the age of two.
- Encourage families to space births at least three years apart. Explain that the lactation amenorrhea method (LAM) can be effective for six months after birth if the mother has no menses and is exclusively breastfeeding. After six months other methods are needed. Advise parents to come to the health center to learn about other family planning methods.
- Encourage families, including their children, to sleep every night under mosquito nets treated with long-lasting insecticides to protect against malaria.
- Encourage parents to call on support groups when they face difficulties.

Document #36: Seasonal Food Calendar

JANUARY	FEBRUARY	MARCH
НОМЕ	НОМЕ	НОМЕ
MARKET	MARKET	MARKET
APRIL	MAY	JUNE
НОМЕ	НОМЕ	НОМЕ
MARKET	MARKET	MARKET
JULY	AUGUST	SEPTEMBER
НОМЕ	НОМЕ	НОМЕ
MARKET	MARKET	MARKET
OCTOBER	NOVEMBER	DECEMBER
НОМЕ	НОМЕ	НОМЕ
MARKET	MARKET	MARKET

Document #37: Illness, Feeding, and Recovery



WHY FEEDING DURING SICKNESS AND RECOVERY IS CRITICAL TO A CHILD'S HEALTH

Although a sick child usually does not feel like eating, she needs strength to fight the illness. Strength comes from the food the child eats, and she needs to eat more food and breastfeed more than when she is well—if she does not, recovery time will be longer. The baby may become chronically sick or malnourished. If the child's condition worsens, she may develop a nutrition-related physical or intellectual disability or even die.

Document #38: Nutritional Care during and After Illness

During Illness

Breastmilk contains water and nutrients in the quantities the baby needs to get better quicker. In addition, breastfeeding comforts a sick child.

From Birth up to 24 Months

- Encourage the mother to breastfeed more often and for longer each time when the baby is sick and after the child recovers. Breastmilk helps the baby recover faster and prevents weight loss.
- The mother has to continue breastfeeding even if she is sick.

Aged Six Months and Up

- Advise the mother to keep giving her child complementary foods during illness along with breastmilk to maintain the child's strength and reduce weight loss. (The mother should also breastfeed more frequently.)
 - A extra bowl or one extra meal of her favorite food
 - Meals should be frequent and small; this works better for sick children.
 - Be patient when encouraging the sick child to eat—illness may have taken away his or her appetite.
- If the child cannot eat, breastfeeding should be increased and additional food given after his appetite has returned.

After Illness

Each time babies are sick, they lose weight, so it is important to give breastmilk as often as possible after and during an illness. Breastmilk is the safest and most important food offered to the baby to restore the child's health and help him or her regain lost weight.

From Birth up to 24 Months

- Advise the mother to continue giving breastmilk more often for two weeks after the illness.
 - The mother has to continue breastfeeding even if she is sick.

Aged Six Months and Up

- Recommend that the mother give one extra bowl of food each day for two weeks after illness to restore the baby's strength and help him or her regain lost weight.
 - The recovering baby should continue getting family foods, the meals being more frequent and smaller, which is easier for recovering children to consume.
 - The mother or caregiver should be patient when encouraging the baby to eat. After illness, it may take the child a while to regain his or her appetite.

Feeding a Child Who Has Moderate Acute Malnutrition

From Birth up to 24 Months

The child should get breastmilk more often to ensure he or she gets vitamins and other nourishment. This will help improve the child's condition quicker.

Aged Six Months and Up

- Recommend that the mother give the baby one additional bowl of family foods each day—or it may be easier to give smaller but more frequent meals - to speed recovery and help a child with moderate acute malnutrition regain his strength.
 - If the child receives a ration of supplementary foods, it must be given to that child for his regular feeding as well as the additional bowl.
 - The mother selects the baby's favorite foods
 - She needs to be patient when encouraging the child to eat, as he may have lost his appetite.
- Encourage the mother to breastfeed more often until the child recovers.

Nutritional Care of Infants and Children with Diarrhea

From Birth up to 6 Months

- Advise the mother to breastfeed the child even if he or she has diarrhea and to breastfeed the child more frequently to replace the lost liquid.
 - If the baby's diarrhea is severe and he or she shows signs of dehydration, the mother must continue breastfeeding, give oral rehydration therapy (ORT), and come back to the health center.

Aged Six Months and Up

- Advise that when the child has diarrhea, the mother must continue giving complementary foods, as well as breastmilk, and breastfeed more frequently. This will help maintain the child's strength and reduce weight loss.
 - Advise the mother to be patient when encouraging the child to eat, as the illness may have taken away his or her appetite; to select the child favorite foods, and to give in small quantities throughout the days; smaller, more frequent meals are easier for a sick child to eat.
- Recommend water, rice water, or ORT, to ensure the child does not become dehydrated.
- Give the child zinc medicine with ORT; provide instructions to continue the treatment for 10 to 14 days (as recommended), even after the runny stomach has stopped

Zinc Treatment for Diarrhea

GROUPS	DOSING	DURATION
Children Under Six Months	10 Mg	10–14 Days
Children Older Than Six Months	20 Mg	10–14 Days

Document #39: What Health Providers Can Teach Parents or Caregivers about Feeding During and **After Illness**

How should you counsel parents or other caregivers on child feeding during and after illness?

- A sick child usually does not feel like eating, but he or she needs even more strength to fight illness. Strength comes from the food the child eats. If the child does not eat or breastfeed during sickness, it will take him or her more time to recover.
- If the child does not eat, he or she will be in a chronic state of sickness and malnutrition and may end up with a physical or intellectual disability as a result. Sometimes, if the child takes longer to recover, his or her condition will worsen, which could lead to death.
- A sick child should be encouraged to eat even if he or she does not feel like it. Also, the child should eat even more during recovery to regain strength more quickly.

What is the best way to help mothers, fathers, and caregivers prevent diarrhea?

- Urge exclusive breastfeeding from birth to six months of age.
- Initiate complementary feeding in a timely fashion, emphasizing FADDUA (correct frequency, amount, density, diversity, utilization, and active feeding).
- Wash hands with soap and water before preparing food.
- Wash hands with soap and water before feeding infants and young children.
- Wash hands with soap and water after using the toilet or cleaning the baby.
- If food is stored ensure it is in a covered container and reheated (then cooled) sufficiently before serving to ensure its safety.
- Dispose of waste appropriately.
- Observe correct personal and environmental hygiene.
- Have an adequate supply of safe water and protect it.
- Ensure the child has all necessary vaccinations.
- Obtain vitamin A supplementation for the child starting at age six months and repeating every six months until age 59 months.
- Avoid bottle feeding; use cups and bowls instead.

What is the best way to help mothers, fathers, and caregivers manage a child with diarrhea?

- Advise them to continue exclusive breastfeeding and increase frequency if the child is younger than six months of age.
- If the child is six months or older, offer more liquids and more food; breastfeed more often.
- Increase the frequency of feedings.
- Never feed your baby using a bottle.
- If the child is becomes dehydrated she should be brought immediately to the health center.

What signs of severe dehydration should all parents and caregivers be aware of?

- Eyes are dry and sunken.
- Skin, when pinched, returns very slowly to its original state.
- The child is lethargic or unconscious.
- The child fails to suckle, drink, or feed.

What general danger signs of illness should all parents and caregivers be aware of?

- The child is unable to drink and eat.
- The child experiences loss of consciousness or is lethargic.
- The child vomits up everything.
- The child has convulsions or history of convulsions









If you note severe dehydration or danger signs of illness, go to the nearest health clinic.

Document #40A: Practice Case Studies: Complementary Feeding for Children 6 up to 24 Months

Case Study 1

The Situation: You visit Korpo, whose baby, Anik, is six and a half months old. Korpo tells you that Anik is too young for food because his stomach is too small. She says she will continue exclusively breastfeeding him until he is older. Her husband and mother-in-law agree with her.

The Visit:

Greet, Ask, Listen

- Greet Korpo and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going; how is eating other foods going?
- Listen to Korpo's concerns, and observe Anik and Korpo
- Accept what Korpo is doing without disagreeing or agreeing

Identify

- Korpo is exclusively breastfeeding Anik
- Korpo has not started complementary foods; she believes Anik's stomach is too small for food
- Think: beginning complementary foods, frequency, amount, and density

- Praise Korpo for breastfeeding
- Explain how important it is for Anik's growth and development that Korpo keep breastfeeding
- Talk with Korpo about beginning complementary foods and why it is necessary for Anik at this age
- Talk with Korpo about the characteristics of complementary feeding: frequency, amount, density (thickness/consistency), diversity, responsive feeding, and hygiene
- Present options/small do-able actions (time-bound) and help Korpo select one or two that she can try, (FADDUA) e.g. begin with a small amount of staple food (porridge, other local examples); begin with tastes and increase to 2 - 3 tablespoons; increase feeding frequency to 3 times a day; talk about appropriate density (thickness/consistency) of staple; assist Anik during feeding times; and discuss hygienic preparation of foods
- Answer questions
- If available, counsellor will select an illustration that is most relevant to Anik's situation -- and discuss it with Korpo

- Ask Korpo to repeat the agreed upon behaviour elements of BF + FADDUA
- Arrange with Korpo a time for a follow-up visit
- Suggest where Korpo can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Refer as necessary
- Thank Korpo for her time

The Situation: Hawa has a nine-month-old daughter, Tesfa, who is eating plain gruel once a day. Hawa is also breastfeeding Tesfa.

The Visit:

Greet, Ask, Listen

- Greet Hawa and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going; how is eating other foods going? (How often is Hawa giving plain gruel, how thick, and how many times?)
- Listen to Hawa's concerns, and observe Tesfa and Hawa
- Accept what Hawa is doing without disagreeing or agreeing

Identify

- Hawa is breastfeeding Tesfa
- Hawa is giving Tesfa plain gruel once a day
- Think: frequency, amount, density and diversity

- Praise Hawa for breastfeeding and giving other foods to Tesfa
- Explain how important it is for Tesfa's growth and development that Hawa give foods other than breastfeeding
- Talk with Hawa about the characteristics of complementary feeding: frequency, amount, density (thickness/consistency), diversity, responsive feeding, and hygiene
- Present options/small do-able actions (time-bound) and help Hawa select one or two that she can try, (FADDUA) e.g. increase feeding frequency to 3 – 4 times a day; talk about appropriate density (thickness/consistency) of gruel; use foods prepared for the family to add to gruel; assist Tesfa during feeding times, provide separate plate for Tesfa; and discuss hygienic preparation of foods
- Answer questions

- If available, counsellor will select an illustration that is most relevant to Tesfa's situation -- and discuss it with Hawa
- Ask Hawa to repeat the agreed upon behaviour elements of BF + FADDUA
- Arrange with Hawa a time for a follow-up visit
- Suggest where Hawa can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Refer as necessary
- Thank Hawa for her time

The Situation: Yamah's gives her 12-month-old baby, Abdul, bites of family food at mealtime only. Yamah is continuing to breastfeed.

The Visit:

Greet, Ask, Listen

- Greet Yamah and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going; how is eating other foods going? (How often is Abdul eating, what kinds of foods is he eating, and how much?)
- Listen to Yamah's concerns, and observe Abdul and Yamah
- Accept what Yamah is doing without disagreeing or agreeing

Identify

- Yamah is breastfeeding Abdul
- Yamah is giving Abdul bites of food at mealtime only
- Think: frequency, amount and diversity including snacks

- Praise Yamah for breastfeeding and giving other foods to Abdul
- Explain how important it is for Abdul's growth and development that Yamah give foods other than breastfeeding
- Talk with Yamah about the characteristics of complementary feeding: frequency, amount, density (thickness/consistency), diversity, responsive feeding, and hygiene
- Present options/small do-able actions (time-bound) and help Yamah select one or two that she can try, (FADDUA) e.g. increase feeding frequency of 3 – 4 times a day; give a variety of foods to Abdul; Abdul needs to receive about a cup of food at each meal; offer snacks to Abdul between meals; assist Abdul during feeding times, provide separate plate for Abdul; and discuss hygienic preparation of foods

- Answer questions
- If available, counsellor will select an illustration that is most relevant to Abdul's situation -- and discuss it with Yamah
- Ask Yamah to repeat the agreed upon behaviour elements of BF + FADDUA
- Arrange with Yamah a time for a follow-up visit
- Suggest where Yamah can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Refer as necessary
- Thank Yamah for her time

The Situation: Kaisha's son, Faith, 15 months old, eats a family meal with her parents two times a day. Kaisha has stopped breastfeeding her, and she seems small for her age.

The Visit:

Greet, Ask, Listen

- Greet Kaisha and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going; how is eating other foods going? (How often is Faith eating, what kinds of foods is she eating, and how much?)
- Listen to Kaisha's concerns, and observe Faith and Kaisha
- Accept what Kaisha is doing without disagreeing or agreeing

Identify

- Kaisha is no longer breastfeeding Faith
- Kaisha is giving Faith food twice a day at mealtime
- Faith seems small for her age
- Think: frequency, amount and diversity including snacks

- Praise Kaisha for giving family foods to Faith at mealtimes
- Talk to Kaisha about the possibility of re-lactating Faith
- Explain how important it is for Faith's growth and development that Kaisha give different kinds of foods to Faith especially since she is no longer breastfeeding Faith
- Talk with Kaisha about the characteristics of complementary feeding: frequency, amount, density (thickness/consistency), diversity, responsive feeding, and hygiene

- Present options/small do-able actions (time-bound) and help Kaisha select one or two that she can try, (FADDUA) e.g. increase feeding times to 3 – 4 times a day; give a variety of foods to Faith; offer 2 snacks during the day; Faith needs to receive a cup of food at each meal; add a little oil Faith's food; assist Faith during feeding times, provide separate plate for Faith; and discuss hygienic preparation of foods
- Answer questions
- If available, counsellor will select an illustration that is most relevant to Faith's situation -- and discuss it with Kaisha
- Ask Kaisha to repeat the agreed upon behaviour elements of BF + FADDUA
- Arrange with Kaisha a time for a follow-up visit
- Suggest where Kaisha can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Screen with MUAC and refer to health facility/supplementary feeding program
- Thank Kaisha for her time

Document #40B: Practice Case Studies: Feeding the Sick Child

Case Study 1

The Situation: Hannah's three-month-old baby, Ben, has diarrhea and is vomiting. Although still breastfeeding, Hannah has also been giving her baby water in a bottle.

The Visit:

Greet, Ask, Listen

- Greet Hannah and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going? (How often is Ben breastfeeding; when did diarrhea start; when did Ben begin receiving water?)
- Listen to Hannah's concerns, and observe Ben and Hannah
- Accept what Hannah is doing without disagreeing or agreeing

Identify

- Hannah is breastfeeding Ben
- Hannah is giving Ben water in a bottle
- Ben has diarrhea and is vomiting
- Think: frequency, on-demand feeding day and night; duration of breastfeeding; Ben releasing breast; check positioning and attachment; use of bottles

- Praise Hannah for breastfeeding Ben
- Talk with Hannah about the recommended breastfeeding practices: importance of exclusive breastfeeding; frequency, on-demand feeding day and night; duration of breastfeeding; Ben releasing breast on his own; check positioning and attachment; risk of using of bottles
- Present options/small do-able actions (time-bound) and help Kaisha select one or two that she can try, e.g. breastfeed exclusively, increase breastfeeding frequency day and night; breastfeed until Ben releases breast; supply and demand; risks of bottle feeding
- Advise Hannah to take her baby to the health center as soon as she can
- Answer questions
- If available, counsellor will select an illustration(s) that is most relevant to Hannah's situation -and discuss it with Hannah
- Ask Hannah to repeat the agreed upon behaviour recommended practices of breastfeeding
- Arrange with Hannah a time for a follow-up visit

- Suggest where Hannah can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Thank Hannah for her time

The Situation: Joyce's daughter, Diane, who is nine months old, has a mild fever and cough and refuses to eat food.

The Visit:

Greet, Ask, Listen

- Greet Joyce and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is breastfeeding going; how is eating other foods going? (When did fever and cough start; when did Diane lose her appetite?)
- Listen to Joyce's concerns, and observe Diane and Joyce
- Accept what Hannah is doing without disagreeing or agreeing

Identify

- Joyce is breastfeeding Diane
- Diane has a mild fever and cough, and she is refusing to eat
- Think: increase frequency of breastfeeding, on-demand feeding day and night; feeding favorite foods; offering more liquids

- Praise Joyce for breastfeeding Diane
- Talk with Joyce about the importance of increasing frequency of breastfeeding; on-demand feeding day and night; feeding smaller portions of favourite foods more often; offering other liquids more frequently
- Present options/small do-able actions (time-bound) and help Joyce select one or two that she can try, e.g. increase breastfeeding frequency day and night; offer smaller quantities of favourite foods more frequently; offer other liquids; encourage Diane to eat; for the two weeks after she's better, to give Diane one additional meal each day while maintaining increased breastfeeding frequency
- Advise Joyce to take Diane to the health center as soon as she can
- Answer questions
- If available, counsellor will select an illustration(s) that is most relevant to Joyce's situation -and discuss it with Joyce
- Ask Joyce to repeat the agreed upon behaviour
- Arrange with Joyce a time for a follow-up visit

- Suggest where Hannah can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Thank Hannah for her time

The Situation: Betty's baby boy, Andy, was sick last week and is now recovering. He is five months old. Betty continues to breastfeed as usual, but her baby is losing weight.

The Visit:

Greet, Ask, Listen

- Greet Betty and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is Andy doing? How is breastfeeding going? Is Andy getting anything else to eat or drink?
- Listen to Betty's concerns, and observe Andy and Betty
- Accept what Betty is doing without disagreeing or agreeing

Identify

- Betty is exclusively breastfeeding Andy
- Andy was sick last week and lost weight
- Think: increase frequency of breastfeeding, on-demand feeding day and night; duration of breastfeeding; Andy receiving other foods or drinks?; preparation for giving complementary foods; active feeding; WASH

- Praise Betty for breastfeeding Andy
- Talk with Betty about the importance of exclusive breastfeeding; frequency, on-demand feeding day and night; increased frequency after sickness; number of wets during a 24-hour period; duration of breastfeeding; Andy releasing breast on his own; risk of using of bottles; active feeding; WASH practices
- Present options/small do-able actions (time-bound) and help Betty select one or two that she can try, e.g. increase breastfeeding frequency day and night; breastfeed until Andy releases breast; supply and demand; risks of bottle feeding; beginning of complementary foods around 6 months
- Advise Betty to take Andy to the health center regularly for growth monitoring
- Answer questions
- If available, counsellor will select an illustration(s) that is most relevant to Betty's situation -- and discuss it with Betty
- Ask Betty to repeat the agreed upon behaviour
- Arrange with Betty a time for a follow-up visit

- Suggest where Betty can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Thank Betty for her time

Case Study 4

The Situation: Celeste, whose daughter, Albina, is 18 months old, tells a health worker that her baby is recovering from an illness and has started eating well but is still losing weight.

The Visit:

Greet, Ask, Listen

- Greet Celeste and ask questions that encourage her to talk, using listening and learning, building confidence and giving support skills.
- How is Albina doing; how is breastfeeding going; how is other feeding going?
- Listen to Celeste's concerns, and observe Albina and Celeste
- Accept what Celeste is doing without disagreeing or agreeing

Identify

- Celeste is breastfeeding Albina
- Albina is recovering from a sickness
- Albina is still losing weight
- Think: extra food for 2 weeks after sickness; frequency, amount and diversity of foods; active feeding; WASH

Discuss, Recommend, Agree on Action, Follow-up Appointment

- Praise Celeste for breastfeeding Albina
- Talk with Celeste about the importance of giving extra food for 2 weeks after sickness; offer 3 4 meals a day and 1-2 snacks such as banana, avocado or orange flesh sweet potato; foods at home or in market; more active feeding; WASH practices frequency
- Present options/small do-able actions (time-bound) and help Celeste select one or two that she can try, e.g. continue breastfeeding; increase frequency, amount and variety of foods; offer food in smaller, more-frequent meals; assist Albina more in eating; put into practice WASH
- Advise Celeste to take her Albina to the health center regularly to check on weight gain
- Answer questions
- If available, counsellor will select an illustration(s) that is most relevant to Celeste's situation -and discuss it with Celeste
- Ask Celeste to repeat the agreed upon behaviour
- Arrange with Celeste a time for a follow-up visit
- Suggest where Celeste can find support (attend an ENA-EHA Support Group in community, Supplementary Food Programme, and refer to Community Worker).
- Thank Celeste for her time

Document #41: About Support Groups

Definition

A support group a group of mothers and caregivers who gather together to discuss themes of Essential Nutrition Actions and/or Essential Hygiene Actions and provide mutual support. The group meets periodically and is facilitated by experienced mothers who know about optimal practices and who, ideally, have mastered group dynamic techniques. Group participants share their experiences and information and support each other to adopt best practices.

The Facilitator

- Sits in a circle at the same level as the rest of the group.
- Introduces himself or herself and asks participants to introduce themselves.
- Introduces the meeting's purpose and theme.
- Explains that the support group meeting will last 60 to 90 minutes.
- Asks open-ended questions to encourage participation and active debate of the ideas.
- Encourages all to share experiences and ideas, including difficulties and challenges, even quieter participants.
- Repeats key messages.
- Asks participants to summarize what they learned.
- Decides, with participants, on meeting length, frequency, timing, and topics.

Potential Community Support Group Facilitators

- Experienced mothers and health workers.
- Formally trained health workers.
- Community workers.

Characteristics of a Community Support Group

- Provides a safe environment of respect and trust.
- Allows participants to:
 - Share information and personal experiences about different nutrition, health and hygiene themes.
 - Mutually support each other through their own experiences. 0
 - Become persuaded of the value of trying to improve nutrition practices. 0
 - Strengthen or modify certain attitudes and practices.
 - Learn from each other's experiences.

- Allows participants to reflect on their experiences, doubts, and difficulties, as well as on popular beliefs and myths, common information, and adequate nutrition practices. In this safe environment, the mother has the knowledge and confidence needed to decide to either strengthen or modify her practices.
- Is not a lecture or a class. All participants play an active role.
- Focuses on the importance of interpersonal communication to allow all women to express their ideas, knowledge, and doubts; share experiences; and receive and give support.
- Has a seating arrangement that allows all participants to have eye-to-eye contact (generally a circle).
- Varies in size between three and 15 participants.
- Is usually facilitated by a trained, experienced caregiver whose role it is to listen and guide the discussion.
- Is open, allowing the admission of all interested pregnant women, mothers who are breastfeeding, women with older toddlers, and other interested people.

Participants: Nutrition Support Group

- Adolescent nutrition.
- Breastfeeding mothers.
- Mothers who have breastfed in the past.
- Pregnant women.
- Community workers.
- Caregivers and parents.
- Formally trained health workers.

Possible Topics for a Community Support Group

- Benefits of exclusive breastfeeding (for mother, child, family, and community).
- Breastfeeding techniques and challenges (position, attachment; insufficient breastmilk production and sore, cracked nipples; babies separated from their mothers, twins; maternal or child sickness).
- Adolescent and women's nutrition.
- Complementary feeding beginning at six months (how to ensure a variety of food, active feeding, how to vary feeding, why keep on breastfeeding, snacks, and how to increase amount, frequency, and density).
- Feeding a sick child (how to encourage a sick child to eat or breastfeed, how to vary and enrich feeding during and after sickness, why continue breastfeeding during a child's sickness, why give extra food during recuperation).
- Optimal water, sanitation and hygiene practices and their importance to nutrition and health.
- How to develop homestead food production to support family nutrition.

Community Groups and Gatherings as Basis for Support Groups

- People living with HIV and AIDS—where PMTCT sites are available.
- Food distribution sites.
- Therapeutic feeding centers.
- Community growth monitoring and promotion.
- Agricultural and similar groups.
- Around the market.
- At school meetings and traditional ceremonies.

Document #42: Support Group Observation checklist

COMMUNITY			
PLACE			
DATE	TIME	# OF ATTENDEES	
THEME			
GROUP FACILITATOR(S)			

WHAT THE FACILITATOR DOES DURING THE MEETING	COMMENTS	
Introduces self to group.		
Clearly explains the day's theme.		
Asks questions that generate participation.		
Motivates quiet women to participate.		
Applies communication skills.		
Adequately manages content.		
Shares tasks (if more than one facilitator).		
Fills out the information sheet on the group.		
Thanks women for attending the support group.		
Invites women to attend the next support group (provides place, date, and theme).		
Asks women to talk to a pregnant or breastfeeding woman before the next meeting, and report back.		
WHAT MOTHERS DO DURING THE MEETING	COMMENT	
Share their experiences.		
Sit in a circle.		
Supervisor/mentor: provide feedback and support to Facilitator(s):		

Document #43: What is Integrated Management of Acute Malnutrition

Introduction

The Integrated management of Acute Malnutrition (IMAM)¹⁶ allows community engagement in identifying and referring cases as early as possible through regular screening, especially with simple tools like Middle-Upper Arm Circumference (MUAC) tapes.

Only the most severe cases (severe acute with medical complications) require in-patient care, saving resources and family costs.

Innovations like ready to use therapeutic foods (RUTF) made home-based care possible and are highly effective.

Components of Integrated Management of Acute Malnutrition

Community Outreach

- IMAM's community element must be strong to mobilize mothers and caregivers to bring their children to the OTP or supplementary feeding program (SFP) for screening before medical complications arise from SAM.
- Outreach workers will search for children who have dropped out of care and will follow up with home visits.
- Health workers and community health volunteers should do this in their communities.

An Outpatient Therapeutic Program

- OTPs will assess and treat the majority of severely malnourished children.
- OTP staff will have specific IMAM training and support.

A Stabilization Center

- The stabilization center (SC) will only admit as inpatients malnourished children with medical complications who are not well enough to be treated as outpatients.
- These children will remain inpatients (five to seven days on average) until their condition is stable enough for discharge to outpatient care for treatment.

A Supplementary Feeding Program

- The SFP treats and supports all moderately malnourished children, lactating mothers with have infants under six months of age with MUAC of less than 21 cm, and pregnant women with MUAC of less than 21 cm.
- SFPs usually provide corn—soy blend and oil to supplement the diets of moderately malnourished children, although increasingly lipid-based ready-to-use foods are being used

¹⁶ Many settings still refer to this as community-based management of acute malnutrition (CMAM)

Document #44: Signs of Marasmus, Kwashiorkor, and **Bilateral Edema**

A small percentage of children may suffer from SAM and have complications such as marasmus and kwashiorkor. During times of severe food shortages, it can be expected that a larger percentage of young children will develop marasmus and kwashiorkor; feeding-related behaviors as well as disease and other factors also result in high rates during non-crisis times.

Clinical Manifestations of Marasmus

- quiet, apathetic demeanor
- flabby muscles
- easily-seen ribs and bones
- wrinkled buttocks
- "old man" face
- sunken eyes

Clinical Manifestations of Kwashiorkor

- bilateral pitting edema—usually on the lower limbs but also sometimes on the child's feet, hands, eyelids, belly, or even over the whole body
- difficulty walking
- moon face or hanging cheeks
- loss of appetite
- lack of interest in surroundings, little energy
- skin changes
- straightening of hair and presence of different color bands in the hair, indicating periods of malnourishment and improved nourishment (a red flag)
- hair is easy to pluck out, and straightening at the bottom and curling on the top, which looks like a forest (a so-called "forest sign")

Marasmic Kwashiorkor

- Bilateral pitting edema
- Severe wasting





IMPORTANT

Do not wait for any of these signs to appear before acting. After complications have become apparent, the child is in great danger and may require intensive care. Signs of malnutrition's onset often go unrecognized.

LOOK FOR recurrent or prolonged illness or diarrhea, growth issues or weight leveling off or decreasing, and feeding issues (e.g., fussy baby or breastfeeding problems).

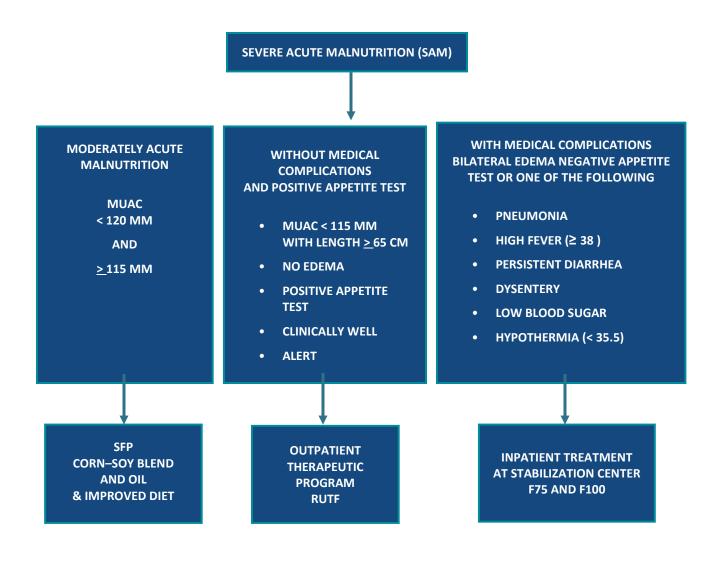
How to Recognize Bilateral Pitting Edema

- Bilateral pitting edema (BPE) is a sign of kwashiorkor—always a severe form of malnutrition.
- To assess BPE, apply normal thumb pressure to both feet for three seconds. If a shallow print persists on both feet, the child has nutritional edema.
- There is no need to take another anthropometric measurement of children with bilateral edema; this condition is evidence enough of severe malnutrition with complications.
- These children are at high risk of mortality and urgently need to be treated in a Stabilization Center.





Document #45: Acute Malnutrition Management and Inpatient Treatment Admission Criteria



Document #46: Food and Counseling for Outpatient Therapeutic Programs

Management of Severe Acute Malnutrition without Complications

Food

Provide a one-week supply of Ready to Use Therapeutic Food (RUTF) based on the child's weight. The most common RUTF is Plumpy'Nut®.

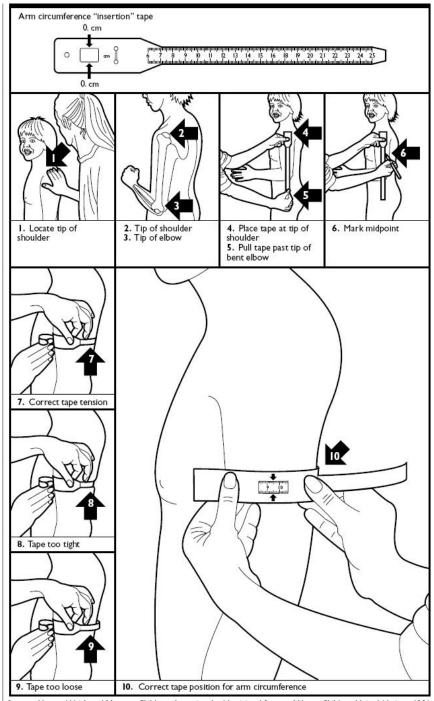
Messages for Caregivers of OTP Children

- Follow the Breastfeeding + FADDUA recommendations to encourage the mother to improve feeding practices of the child.
- Explain that RUTF is a food and medicine for malnourished children only. It should not be shared.
 - It is given before other foods. Encourage the mother or caregiver to offer small regular meals of RUTF and to get the child to eat often.
 - The child has to drink plenty of clean water while he or she is eating RUTF.
- If the mother is breastfeeding, urge her to consistently give breastmilk before the RUTF and to breastfeed on demand.
- Recommend the mother to use soap for washing a child's hand and face before feeding.
- All food should be clean and kept covered.
- Sick children get cold quickly. Always keep the child covered and warm.
- When the child has diarrhea, never stop feeding. Offer extra breastmilk or extra food and clean water or oral rehydration solution.

Managing Moderate Acute Malnutrition: Diet, Treatment, and Care

- Provide supplementary foods or refer the child to the Supplementary Feeding program (SFP) for food, counseling, and follow-up, if there is one nearby.
- Assist the mother or caregiver to use the food received appropriately.
- Assess current feeding practices.
- Use nutritional counseling messages for the sick child.
- Emphasize optimal breastfeeding and complementary feeding, especially enriching with animal source foods whenever possible.
- Encourage the mother or caregiver to use active feeding, so child finishes his or her food.
- Encourage the mother to take the child to monthly weigh-in visits, providing they are available.
- Encourage the mother to make sure the child is immunized and receives vitamin A and deworming.

Document #47: Child MUAC Measurement



Source: How to Weigh and Measure Children: Assessing the Nutritional Status of Young Children, United Nations, 1986.

How to Take MUAC Measurement in a child <5 years

- The mid-upper arm circumference is used to measure "thinness." The World Health Organization recommends it as the preferred method for screening for moderate or severe acute malnutrition.
- The MUAC tape has a number of different parts.
 - It has a wide section and a narrow section.
 - In the middle of the wide section, there is a hole with an arrow on each side.
 - The tape's narrow end has three colored sections: green, yellow, and red.
- MUAC measurement reflects health status: Green indicates good nutrition. Yellow points to sickness or a lack of proper feeding, with nutrition in the danger zone (Moderate acute malnutrition). Increased feeding and follow-up are essential. Red alerts you to very poor feeding, with nutrition at a very dangerous level (Severe acute malnutrition): with complications have highest risk of death; without complications needs immediate referral. Immediate attention is needed to prevent death in cases of severe acute malnutrition.
- Take measurements on the middle of the upper arm—and always on the left arm.
- To measure a child under five, use only the child MUAC tape.
 - Remove clothing covering the left arm.
 - Find the midpoint of left upper arm with the following techniques:
 - Locate the tip of the child's shoulder with your fingertips.
 - 2. Bend the child's elbow to make a right angle.
 - Measure the tip of the shoulder to the tip of the elbow using a string (or the MUAC tape), and fold the string in half. Use a marker or pen to mark the midpoint on the child's arm.
 - Straighten the child's arm, have him or her keep it relaxed, and wrap the tape around the arm at the midpoint. Make sure the tape has the proper tension—it should be neither too tight nor too loose.
 - Read the number between the two arrows to the nearest 0.1 cm. Immediately record the measurement and identify the color of the tape between the two arrows flanking the hole.
- For patients who have passed their fifth birthday, use the adult MUAC tape.

COMMON MISTAKES

Wrapping the tape too tightly or too loosely Not taking the measurement at the midpoint between shoulder and elbow Measuring the MUAC with a bent elbow or an arm that is not relaxed Measuring the right arm rather than the left

Document #48: Antenatal Care in Fourth, Sixth or Seventh, Eighth, and Ninth Months

Evaluate for Danger Signs

Ask the mother to come back if she has any of these signs; **refer immediately for follow up**, if necessary.

Vaginal bleeding Excessive weight gain Breathing difficulty

Severe headache/blurred Ruptured membrane without Foul-smelling or yellowish/green/brown onset of labor within 18

vaginal discharge hours Convulsions/loss of

consciousness Loss of fetal movement Severe abdominal pain

Fever History of leakage of No weight gain

amniotic fluid for more than Swollen hands and legs

18 hours

Check the Mother's Tetanus-Toxoid Immunization

Complete if Necessary

TT1: as soon as possible TT3: six months later TT5: one year later

TT2: one month later TT4: one year later

Assess Health Indicators

- Weigh the mother and check that she is gaining weight (norm: 1kg/month in the second and third trimesters).
- Measure mid-upper arm circumference (MUAC) and check for underweight (norm >23 cm).
- Check blood pressure (norm <140/90), Hb (norm >11gm/dl), albumin, and blood sugar (norm, negative).
- Check blood group and venereal disease and HIV statuses.

Advise to Take and Continue Iron-Folic Acid Supplementation

(Check national guideline)

- Advise patient to take one tablet daily (iron 60 mg, folic acid 400 mcg) for six months starting in pregnancy and continuing until completed.
- Explain side effects (e.g., difficult to digest, black stools, constipation), how to take it (i.e., between meals with fruits), and where to get more tablets.
- Screen for anemia (e.g., check color of palm) or Hb <12 gm/dl and treat (iron 120 mg, folic acid 400 mcg daily for three months).

Give Vitamin A Supplementation

(Check national guideline)

Give 10,000 IU daily or 25,000 weekly.

Counsel on the Need for Diversified Diet during Pregnancy

- Advise women to eat one extra meal—i.e., an extra bowl of food—each day.
- Emphasize importance of using iodized salt for herself and the whole family.
- Recommend a varied diet containing animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, pawpaw, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits.

Treat and Counsel on Malaria Prevention and Treatment

(Check national guideline)

- Urge the importance of sleeping under a mosquito net to prevent malaria.
- Advise the mother to obtain antimalarial treatment—specifically, one dose of sulfadoxinepyrimethamine 500 mg + 25 mg (three tablets) at each scheduled visit in the antenatal care schedule after completion of the first trimester, each treatment at least one month apart.

Counsel on Breastfeeding Practices

- Put the baby to the breast immediately after birth, even before the placenta has been expelled.
- Check for and demonstrate correct positioning and attachment.
- Give baby colostrum, not pre-lacteals (e.g., pepper water, water, butter, traditional medicine, or other liquids).
- Breastfeed exclusively (no water, rice water, coconut water, or other liquids or foods) until baby is six months of age.
- Breastfeed on demand at least 10 times, day and night, each 24-hour period (every two to three hours).
- Empty one breast completely before switching to the other to give the baby the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties occur.

Review Status on Sexually Transmitted Infections

- Identify and treat STIs.
- Counsel the mother to use a condom during sexual intercourse to prevent HIV infection during breastfeeding.
- Counsel for HIV testing and refer to sites offering prevention of mother-to-child transmission (PMTCT) services.

Counsel on Family Planning

• Advise the mother to delay any new pregnancy at least 24 months after the delivery for the health of the mother and baby; explain family planning options.

SHORT-TE	RM OPTIONS	LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo-Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Offer General Advice

- Rest at least an hour a day during the third trimester.
- Avoid heavy lifting and heavy work.
- Attend the antenatal clinic four times during pregnancy, if possible (optimally, the fourth, sixth or seventh, eighth, and ninth months).
- Deliver in a health facility.
- Return for a postnatal visit on the 7th and 45th days and in between, as needed.

Document #49: Delivery and Perinatal Care

Evaluate Danger Signs Requiring Immediate Referral

Watch for labor lasting more than 12 hours. Spot excessive vaginal bleeding.

Watch for labor before the completion of 37 Check for severe fever or foul-smelling

weeks of pregnancy. vaginal discharge.

Watch for baby in abnormal position (breech, Watch for headache/visual disturbances/convulsions/fits.

transverse).

At Birth, be sure to:

• Cut the umbilical cord after pulsation has stopped (two to three minutes).

- Cut the umbilical cord with clean instruments and cover it with a clean gaze (nothing else).
- Dry and warm the newborn.
- Clean the newborn's airway if the baby does not cry immediately.
- Ensure skin-to-skin contact with the mother.
- Put baby to the breast immediately after birth (within one hour) even before the placenta has been expelled.
- Weigh the baby and record the weight on growth chart or health card.

Counsel on Breastfeeding Practices

- Give baby colostrum, not pre-lacteals (e.g., pepper water, water, butter, traditional medicine, other liquids).
- Breastfeed exclusively (no water, rice water, coconut water, or other liquids or foods) until baby is six months of age.
- Breastfeed on demand at least 10 times, day and night, each 24-hour period (or every two or three hours).
- Empty one breast completely before switching to the other to give the baby the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties occur.
- Help the mother on correct positioning and attachment.
- Explain to the mother how to express her breastmilk; demonstrate.
- Let her know she can store her milk safely up to eight hours at room temperature.

Give Vitamin A Supplementation

(Check national guideline)

Give 200,000 IU to the mother once within eight weeks after delivery.

Advise to Continue Iron-Folic Acid Supplementation

(Check national guideline)

- Advise one tablet daily (iron 60 mg; folic acid 400 mcg) for six months starting in pregnancy and continuing until completed.
- Explain side effects (e.g., difficult to digest, black stools, constipation) and how to take it (i.e., between meals with fruits) and where to get more tablets.
- Screen for anemia (e.g., color of palm) or Hb <12 gm/dl and treat (iron 120 mg; folic acid 400 mcg daily for three months).

Counsel on the Need for Diversified Diet during Lactation

- Advise women to eat two extra bowls of food each day.
- Emphasize importance of using iodized salt for herself and the whole family.
- Recommend a varied diet containing animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits.

Counsel on Malaria Prevention and Treatment

(Check national guideline)

Prevention

Urge the importance of sleeping under a mosquito net to prevent malaria, especially for pregnant and lactating women and young children.

Treatment

- Advise the mother to get antimalarial treatment if she has fever.
 - Malaria with no complications: Give artesunate + amodiaquine.
 - Malaria with complications: Give quinine.

Review and Administer Immunizations

- Check the mother's immunization tetanus—toxoid (TT) status and complete if necessary.
- Give the baby BCG and oral polio vaccine.

Review Status on Sexually Transmitted Infections

- Identify and treat STIs.
- Counsel the mother to use a condom during sexual intercourse to prevent HIV infection during breastfeeding.
- Counsel for HIV testing and refer to sites offering prevention of mother-to-child transmission (PMTCT) services.

Advice on Postnatal Practices

- Bring the baby back for a postnatal visit on the 7th and 45th days and in between, as needed.
- Observe the baby's immunization schedule.
- Check the baby's weight monthly.
- Avoid heavy work and lifting for two weeks after delivery.

Counsel on Family Planning

- Choose a family planning practice.
- Advise on lactation amenorrhea method.
- Advise at least 3 years delay between two pregnancies.

SHORT-TEI	RM OPTIONS	LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo-Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Document #50: Postnatal Care on 7th and 45th Days after Delivery and Family Planning

Evaluate Danger Signs in Mothers Requiring Immediate Visit to Health Facility

Heavy vaginal bleeding Convulsions (fits)

Breathing difficulty Severe headache or visual disturbances

Fever or foul-smelling vaginal discharge Hot, red, and painful areola or lump on the

breast Abdominal pain

Pain in calf, with or without swelling

Watch for Danger Signs in Newborns Requiring Immediate Visit to **Health Facility**

Breathing problems (slow or fast breaths; Jaundice or yellow skin

grunting)

Convulsions

Feeding difficulties or not sucking well

Feels cold to touch

Fever Persistent vomiting or abdominal distension

Lethargy

Diarrhea

Umbilical pus

Counsel on Breastfeeding Practices

- Assess and demonstrate correct positioning and attachment.
- Breastfeed exclusively until baby is six months of age—no water, rice water, coconut water, or other liquids or foods.
- Breastfeed on demand, at least 10 times day and night during each 24-hour period.
- Empty one breast completely before switching to the other in order to get the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties.

Expressing Breastmilk

- Explain to the mother how to express her breastmilk; demonstrate.
- Let her know she can store her milk safely up to eight hours at room temperature.

Counsel on the Need for Diversified Diet during Lactation

- Advise women to eat two extra bowls of food each day as side meals.
- Emphasize importance of using iodized salt for herself and the whole family.
- Recommend a varied diet containing animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits.

Give Vitamin A Supplementation

(Check national guideline)

• Check status. If not given at delivery, give 200,000 IU to the mother within eight weeks.

Advise to Continue Iron-Folic Acid Supplementation

(Check national guideline)

- Advise one tablet daily (iron 60 mg; folic acid 400 mcg) for six months starting in pregnancy and continuing until completed.
- Explain side effects (e.g., difficult to digest, black stools, constipation) and how to take it (i.e., between meals with fruits) and where to get more tablets.
- Screen for anemia (e.g., color of palm) or Hb <12 gm/dl and treat (iron 120 mg; folic acid 400 mcg daily for three months).

Counsel on Malaria Prevention and Treatment

(Check national guideline)

Prevention

Urge the importance of sleeping under an insecticide-treated mosquito net, especially for pregnant and lactating women and young children.

Treatment

- Advise the mother to get antimalarial treatment if she has fever.
 - Malaria with no complications: Give artesunate + amodiaquine.
 - Malaria with complications: Give quinine.

Review and Administer Immunizations

- Check the mother's immunization TT status and complete.
- Give the baby BCG and oral polio vaccine as needed.

Review Status on Sexually Transmitted Infections

- Identify and treat STIs.
- Counsel the mother to use a condom during sexual intercourse to prevent HIV infection during breastfeeding.
- Counsel for HIV testing and refer to sites offering prevention of mother-to-child transmission (PMTCT) services.

Counsel on Family Planning

• Advise the mother to delay any new pregnancy at least 24 months after the delivery; explain family planning options.

SHORT-TE	RM OPTIONS	LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo-Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Offer General Advice

- Advise the mother to expose the baby (undressed below the waist) to morning sunlight every day for 20 to 30 minutes.
- Advise the mother to return for postnatal visit on the 7th and 45th days and in between, as needed.
- Observe the baby's immunization schedule.
- Check the baby's weight monthly.
- Avoid heavy work and lifting for up to two weeks after delivery.

Document #51: Expanded Program on Immunization

Assess the Child's Immunization Status

(Check national guideline)

- Check before the baby's first birthday and update as needed.
- Advise the mother to follow the baby's immunization schedule and weigh the baby monthly.

IMMUNIZATION	WHEN	IMMUNIZATIONS	PROTECTS FROM
FIRST IMMUNIZATION	At birth	BCG Oral polio	Tuberculosis Polio
SECOND IMMUNIZATION	Sixth week	Pentavalent I Oral Polio 1 PCV Rota	Diphtheria Hepatitis B
THIRD IMMUNIZATION	10 th week (Four weeks after Pentavalent I)	Pentavalent II Oral Polio 2 PCV Rota	Haemophilus influenza Tetanus Pertussis Polio
FOURTH IMMUNIZATION	14 th week (Four weeks after Pentavalent II)	Pentavalent III Oral Polio 3 PCV Rota	Pneumococcus Rotavirus
FIFTH IMMUNIZATION	Nine months of age	Measles and yellow fever Vitamin A	Measles, yellow fever, vitamin A deficiency

Screen the Mother's Status

- Evaluate the mother's immunization status; complete as necessary; remind her of the next session.
- Check the mother's vitamin A supplementation status; administer 200,000 IU, if needed within eight weeks after delivery.
- Screen for anemia (check color of palm) or Hb <12gm/dl) and treat (iron 120mg, folic acid 400mcg daily for three months.

Update the Child's Vitamin A Supplementation Status

- As needed, for children 6 through 11 months, administer 100,000 IU vitamin A during measles immunization (once).
- For children 12 through 59 months, administer 200,000 IU vitamin A every six months.

Update the Child's Deworming

 As needed, for children from 12 to 59 months, provide a single 500 mg dose of Mebendazole (or Albendazole) every four to six months.

Check for and Treat the Child's Anemia

(Check national guideline)

- For children under two years of age: iron 25mg, folic acid 100–400 mcg daily over three months.
- Simultaneously, treat malaria: amodiaquine 153 mg + artesunate 50 mg for three days.

Assess and Counsel on Breastfeeding Practices for Children under Six Months

- Review and correct positioning and attachment if the child is less than three months of age.
- Breastfeed exclusively until the baby is six months of age—no water, rice water, coconut water, or other liquids or foods.
- Breastfeed on demand, at least 10 times day and night during each 24-hour period.
- Empty one breast completely before switching to the other in order to get the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties.

Assess and Counsel on Adequate Complementary Feeding from 6 to 24 **Months**

- Continue breastfeeding child until he or she is 24 months old (at least eight times during a 24hour period).
- Beginning at six months, feed infants two to three meals of porridge each day, plus one or two other snacks in addition to breastmilk. Quantities can increase as the infant grows.
- Beginning at 12 months of age, offer family food to the baby four times a day; also, give the child one or two snacks in addition to breastmilk.
- Enrich the baby's diet with varied foods: Animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits; Oil or butter.
- Wash your hands and your baby's before preparing food and before feeding him or her.
- Encourage the child to eat from his or her plate; encourage and assist him or her to finish all food.

Counsel on the Need for Diversified Diet during Lactation

- Advise women to eat two extra bowls of food each day as side meals.
- Emphasize importance of using iodized salt for herself and the whole family.
- Recommend a varied diet containing animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits.

Counsel on Malaria Prevention

Urge the importance of sleeping under an insecticide-treated mosquito net, especially for pregnant and lactating women and young children.

Review Status on Sexually Transmitted Infections

- Identify and treat STIs.
- Counsel the mother to use a condom during sexual intercourse to prevent HIV infection during breastfeeding.
- Counsel for HIV testing and refer to sites offering prevention of mother-to-child transmission (PMTCT) services.

Counsel on Family Planning

Advise the mother to delay any new pregnancy at least 24 months after the delivery; explain family planning options

SHORT-TER	M OPTIONS	LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo-Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Document #52: Growth Monitoring and Well-Child Visits

Growth Monitoring and Promotion

- Record the child's birth weight onto the growth card if that information is available.
- Determine the child's age in months.
- Calibrate the scale to zero and weigh the child (after removing heavy clothing); record weight on the growth chart.
- Evaluate the direction and position of the baby's growth curve; compare with the reference curves on the card.
- Most importantly, explain the child's growth curve to the mother.
- Congratulate the mother if the child is growing well; assess feeding practices; offer relevant counseling.
- If the child is not growing well, counsel mother on appropriate feeding; measure height; check for acute malnutrition and edema; and refer for treatment, if necessary.
- Advise the mother to weigh the baby monthly.

Counsel on Breastfeeding Practices for Children under Six Months

- Assess and demonstrate correct positioning and attachment if the child is less than three months of age.
- Breastfeed exclusively until the baby is six months of age—no water, rice water, coconut water, or other liquids or foods.
- Breastfeed on demand, at least 10 times day and night during each 24-hour period.
- Empty one breast completely before switching to the other in order to get the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties.

Expressing Breastmilk

- Explain to the mother how to express her breastmilk; demonstrate.
- Let her know she can store her milk safely up to eight hours at room temperature.
- Assess and Counsel on Adequate Complementary Feeding from 6 up to 24 Months
- Continue breastfeeding at least up to 24 months (at least eight times during each 24-hour period).
- Beginning at 6 months, feed infants two to three meals of porridge each day, plus one or two other snacks in addition to breastmilk.
- Beginning at 12 months of age, offer family food to the baby four times a day; also give one or two snacks in addition to breastmilk.

- Enrich the baby's diet with varied foods: animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits; oil or butter.
- Wash your hands and your baby's before preparing food and before feeding.
- Encourage the child to eat from her own plate, and encourage and assist her to finish all her food.

During and after Illnesses

- Counsel the mother to increase breastfeeding frequency during and after illnesses.
- During recovery, for children older than six months of age, advise the mother to give one additional bowl of food every day for two weeks in addition to breastmilk.

Assess Immunization Status

- Complete immunizations as appropriate.
- Advise the mother to follow the baby's immunization schedule.

Update the Child's Vitamin A Supplementation Status

- As needed, for children 6 to 11 months, administer 100,000 IU vitamin A during measles immunization (once).
- For children 12 to 59 months, administer 200,000 IU vitamin A every six months.

Update the Child Deworming

(Check national guideline)

As needed, for children from 12 to 59 months, provide a single 500 mg dose of Mebendazole (or Albendazole) every four to six months.

Check for and Treat the Child's Anemia

(Check national guideline)

- For children under two years of age: iron 25 mg; folic acid 100-400 mcg daily over three months. In areas of endemic malaria, iron supplementation should be accompanied by diagnosis and treatment of malaria.
- Simultaneously, treat malaria: amodiaquine 153 mg + artesunate 50 mg for three days.

Counsel on the Need for Diversified Diet during Lactation

- Advise women to eat two extra bowls of foods as side meals.
- Emphasize importance of using iodized salt for herself and the whole family.
- Recommend a varied diet containing animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits.

Counsel on Malaria Prevention

Urge the importance of the entire family sleeping under an insecticide-treated mosquito net, especially for pregnant and lactating women and young children.

Review Status on Sexually Transmitted Infections

- Identify and treat STIs.
- Counsel the mother to use a condom during sexual intercourse to prevent HIV infection during breastfeeding.
- Counsel for HIV testing and refer to sites offering prevention of mother-to-child transmission (PMTCT) services.

Counsel on Family Planning

 Advise the mother to delay any new pregnancy at least 24 months after the delivery; explain family planning options

SHORT-TERM OPTIONS		LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo- Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Offer General Advice

Urge the mother to expose the baby (undressed below the waist) to morning sunlight every day for 20 to 30 minutes.

Document #53: Sick-Child Visits and Integrated Management of Neonatal and Childhood Illnesses

Check for Danger Signs and Refer, If Necessary

- Assess, classify illness, and treat according to the IMNCI algorithms (e.g., for cough, difficult breathing, diarrhea, fever, ear problems).
- Refer if danger signs are found. They include:
 - Lethargy or unconsciousness

Vomiting everything

Convulsing in past or now

Unable to eat or drink 0

Assess the Child's Nutritional Status

- Determine the child's age in months.
- Check for visible and severe wasting with weight for height (or MUAC if height is impossible to measure); refer for treatment of acute malnutrition, if necessary.
- Check for swelling (edema); refer for treatment, if necessary.
- Weigh child (remove heavy clothing) and record weight on the growth chart.
- Evaluate the direction and position of the baby's growth curve; compare with the reference curves on the card.
- Most importantly, explain the child's growth curve to the mother.
- Urge the mother to come to the health center to have someone weigh the baby monthly to ensure he is growing well.
- Counsel the mother on appropriate feeding during and after illness.

Counsel on More-Frequent Breastfeeding during and after Illness

For a child older than six months of age, urge the mother to breastfeed more often and to give him or her one extra meal every day for two weeks after recovery from an illness.

Counsel on Breastfeeding Practices for Children under Six Months

- Assess and demonstrate correct positioning and attachment if the child is less than three months of age.
- Breastfeed exclusively until the baby is six months of age—no water, rice water, coconut water, or other liquids or foods.
- Breastfeed on demand, at least 10 times day and night during each 24-hour period, every two to three hours.
- Empty one breast completely before switching to the other in order to get the nutritious milk.
- Come back if any breast or nipple problems or other breastfeeding difficulties.

Expressing Breastmilk

- Explain to the mother how to express her breastmilk; demonstrate.
- Let her know she can store her milk safely up to eight hours at room temperature.

Assess and Counsel on Adequate Complementary Feeding from 6 up to 24 **Months**

- Continue breastfeeding at least up to 24 months (at least eight times during each 24-hour period).
- Beginning at six months, feed infants two to three meals of porridge each day, plus one or two other snacks in addition to breastmilk.
- Beginning at 12 months of age, offer family food to the baby four times a day; also give one or two snacks in addition to breastmilk.
- Enrich the baby's diet with varied foods: Animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits; Oil or butter.
- Wash your hands and your baby's before preparing food and before feeding her.
- Encourage the child to eat from her own plate, and encourage and assist her to finish all her food.

If the Child Has Diarrhea

- For children under six months, give zinc 10 mg daily for 10 to 14 days with low osmolarity oral rehydration solution.
- For children aged six months to five years, give zinc 20 mg daily for 10 to 14 days.

Check for Anemia in the Child and Treat

(Check national guideline)

- For children under two years of age, give iron 25 mg and folic acid 100–400 mcg daily over three months.
- For children aged two to five years, give iron 60 mg and folic acid 400 mcg daily over three
- Where malaria is endemic, treatment with iron should be accompanied by appropriate diagnosis and treatment of malaria.
- Simultaneously treat malaria with amodiaquine 153 mg + artesunate 50 mg over three days.

Update the Child's Vitamin A Supplementation Status

(Check national guideline)

- As needed, for children 6 through 11 months, administer 100,000 IU vitamin A during measles immunization (once).
- For children 12 through 59 months, administer 200,000 IU vitamin A every six months.
- Add vitamin A to treatment for other conditions according to IMNCI protocol. (See table below.)

DISEASES	6 THROUGH 11 MONTHS (100,000 IU)	12 THROUGH 59 MONTHS (200,000 IU)
Persistent diarrhea	Day 1	Day 1
Severe malnutrition (eye lesions)	Day 1	Day 1
Measles	Day 1, Day 2, Day 14	Day 1, Day 2, Day 14
Xerophthalmia (night blindness, eye lesion)	Day 1, Day 2, Day 14	Day 1, Day 2, Day 14

Update the Child's Deworming

(Check national guideline)

• As needed, for children from 12 to 59 months, provide a single 500 mg dose of Mebendazole (or Albendazole) every four to six months.

Check the Mother's Tetanus-Toxoid Immunization Status and Complete, **If Necessary**

TT1: as soon as possible TT3: six months later TT5: one year later

TT2: one month later TT4: one year later

Document #54: Community Management of Acute Child Malnutrition in an Outpatient Therapeutic Program

Measure Mid-Upper Arm Circumference and Weight for Height and **Classify**

(Check national guideline)

- How to Classify
 - Moderate acute malnutrition if MUAC < 12 cm > 11.5 cm or wt/ht >-3 < -2 z score
 - Severe acute malnutrition if MUAC < 11.5 cm or wt/ht < -3 z score
- Identify complicated SAM and refer to stabilization center for inpatient treatment, if there is:
 - Presence of bilateral pitted edema
 - Failed appetite test
 - Other medical complications (diarrhea, pneumonia, fever)

On Admission, If Severe Acute Malnutrition, Provide Counseling and **Medical Treatment**

(Check national guideline)

- Vitamin A, depending on age
- Folic acid if there are signs of anemia (5 mg or 2.5 mg in endemic malaria areas)
- Antibiotic therapy for seven days (amoxicillin, ampicillin, or gentamycin), if necessary
- Malaria treatment and insecticide-treated mosquito nets
- Measles immunization
- RUTF by weight (following national guidelines)

If Moderate Acute Malnutrition, Refer to Supplementary Feeding Program (SFP)

- In the SFP, obtain appropriate food rations (corn-soya blend, sugar, and oil or ready to use supplementary foods -RUSF).
- Provide counseling, as relevant and as noted below.

Counsel on More-Frequent Breastfeeding during and after Illness

For a child older than six months of age, urge the mother to breastfeed more often and to give him or her one extra meal, every day for two weeks after recovery from an illness.

Counsel on Breastfeeding Practices for Children under Six Months

- Assess and demonstrate correct positioning and attachment if the child is less than three months of age.
- Breastfeed exclusively until the baby is six months of age—no water, rice water, coconut water, or other liquids or foods.
- Breastfeed on demand, at least 10 times day and night during each 24-hour period.
- Empty one breast completely before switching to the other to get the nutritious milk.
- Try to reinitiate breastfeeding if the child is less than 24 months of age.

Assess and Counsel on Adequate Complementary Feeding from 6 up to 24 **Months**

- Continue breastfeeding at least up to 24 months (at least eight times during each 24-hour period).
- Beginning at six months, in addition to breastmilk, feed infants two to three meals of porridge each day plus one or two other snacks.
- Beginning at 12 months of age, offer family food to the baby four times a day; also give one or two snacks in addition to breastmilk.
- Enrich the baby's diet with varied foods: Animal-source foods: egg, liver, and other meats; Vitamin A: palm oil, papaya, plum, pumpkin, red and yellow sweet potato, carrot, and dark green leafy vegetables; Iron: beans, meat, liver, and dark green leafy vegetables; Vitamin C: citrus fruits; Oil or butter.
- Wash your hands and your baby's before preparing food and before feeding her.
- Encourage the child to eat from her own plate, and encourage and assist her to finish all her food.

Check on Immunization Status

- Complete immunizations as needed.
- Advise the mother to observe the appropriate immunization schedule and weigh the baby monthly.

Check for Child's Anemia and Treat

(Check national guideline)

- For children under two years of age, give iron 25 mg and folic acid 100-400 mcg daily over three months.
- For children aged two to five years, give iron 60 mg and folic acid 400 mcg daily over three months.
 - Simultaneously treat maria with amodiaquine 153 mg + artesunate 50 mg over three days.

Update the Child's Vitamin A Supplementation Status

- As needed, for children 6 through 11 months, administer 100,000 IU vitamin A during measles immunization (once).
- For children 12 through 59 months, administer 200,000 IU vitamin A every six months.

Update the Child's Deworming

• As needed, for children from 12 to 59 months, provide a single 500 mg dose of Mebendazole (or Albendazole) every four to six months.

Counsel on Family Planning

• Advise the mother to delay any new pregnancy at least 24 months after the delivery; explain family planning options

SHORT-1	TERM OPTIONS	LONG-TERM OPTIONS	PERMANENT OPTIONS
Natural family planning LAM Standard day method	Injectables: medroxyprogesterone or Depo-Provera Mini pills Spermicides and condoms	IUD Norplant	Male and female voluntary surgical contraception

Document #55: Comparison of Training Guides for Health Workers and Community Workers

TRAINING GUIDE FOR HEALTH WORKERS	TRAINING GUIDE FOR COMMUNITY WORKERS
# of Sessions = 24	# of Sessions = 14
Length of Training = 5 days	Length of Training = 3 days
Session 1: Why are we here?	Session 1: Why are we here?
Session 2: About social behavior change communication	Not included
Session 3: Women and child nutrition	Activity 1.2: Explore how to stay well-nourished
Activity 3.1 : Recognize key factors that contribute to a healthy, well-nourished woman and child	
Session 4: ENA & EHA Activity 4.1: Describe the Routine Nutrition Practices that the HW Shares with Women to Improve Their Own and Their Children's Health; and Where/When Can the HW Share These Messages with Women?	Activity 1.3: Identify how community health workers can improve nutrition and hygiene
Session 5: Women's nutrition: the malnutrition cycle and strategies to break it	Session 2: Adolescent girls and women's nutrition during pregnancy, and the importance of micronutrients
Activity 5.1: Explain the Intergenerational Cycle of Malnutrition	Activity 2.1: Explain why nutrition for women is important through the life cycle
	Reference Handbook Practices:
	Practice 1 : Nutrition for Adolescent Girls and Non-Pregnant women
	Practice 2: Nutrition for Pregnant Women
	Practice 3: Preventing Anemia and Malaria during Pregnancy
	Practice 4: Using Iodized Salt
Session 6: Nutrition in the context of HIV	Not included
Session 7: Breastfeeding Advantages, Beliefs, and Myths and the Risks of Formula Feeding	Not included
Session 8: Breastfeeding practices from birth up to six	Session 3: Breastfeeding up to 6 months
months	Reference Handbook Practices:
	Practice 5: Early Initiation of Breastfeeding
	Practice 6 : Exclusive Breastfeeding birth from up to 6

TRAINING GUIDE FOR HEALTH WORKERS	TRAINING GUIDE FOR COMMUNITY WORKERS
	Months of Age
	Practice 7 : Positioning your baby correctly for breastfeeding
	Practice 8: Nutrition for Lactating Mothers
Session 9: Infant feeding and HIV	Not included
Session 10: Family planning and nutrition	Not included
Session 11: Essential Hygiene Actions	Session 7: Essential Hygiene Actions
	Reference Handbook Practices:
	Practice 17: Keeping the Environment Clean
	Practice 18: Handwashing
	Practice 19: Washing a Child's Hands before Feeding
	Practice 20: Washing Your Hands Easily Using Minimum water
	Practice 21: Keeping Food and Food Containers Clean
Session 12: Using pictures to discuss practices	Session 4: Using pictures to discuss practices
Session 13: Negotiation with mothers, fathers, grandmothers, or other caregivers: women's nutrition during pregnancy and breastfeeding practices	Session 5: Negotiation with mothers, fathers, grandmothers, or other caregivers: women's nutrition during pregnancy and breastfeeding practices
Session 14: Preventing and controlling micronutrient	Reference Handbook Practices:
deficiencies Activity 14.2: Identify health problems caused by	Practice 3: Preventing Anemia and Malaria during Pregnancy
micronutrient deficiencies and how to remedy them	Practice 4: Using lodized Salt
	Practice 15: Importance of vitamin A
	Practice 16: Preventing Anemia
Session 15: Complementary feeding practices	Session 6: Complementary feeding and feeding a sick child
Activity 15.2: Describe how health workers can support complementary feeding practices	Activity 6.1: Practices in complementary feeding and feeding a sick child
Activity 15.4: Name local, available and seasonal available foods appropriate for infants and young children and Activity 15.5: Make a calendar of	Activity 6.2: Name local, available and seasonal foods appropriate for infants and young children
seasonal foods	A Reference Handbook:
	Practice 9: Introducing complementary foods
	Practice 10: A varied diet
	Practice 11: Feeding frequency and quantity for children aged 6 - 11 months
	Practice 12: Feeding frequency and quantity for children aged 12 up to 24 months

TRAINING GUIDE FOR HEALTH WORKERS	TRAINING GUIDE FOR COMMUNITY WORKERS
	Practice 17: Keeping the environment clean
	Practice 18: Hand washing
	Practice 19: Washing a child's hands before feeding
Session 16: Feeding the sick child and danger signs in illness	Session 6: Complementary feeding and feeding a sick child
	A Reference Handbook:
	Practice 13: Feeding sick children during and after illness
	Practice 14: Nutritional care of infants and children with diarrhea or moderate malnutrition
Session 17: Negotiation with mothers, fathers, grandmothers, or other caregivers: complementary feeding and the sick child	Session 9 : Negotiation with mothers, fathers, grandmothers, or other caregivers: complementary feeding and the sick child
Session 18: 1 st Field Practice	Session 11: Field Practice
Session 19: Community Support Groups	Session 13: Community Support Groups
Session 20: 2 nd Field Practice	Session 11: Field Practice
Session 21: Integrated Management of Acute Malnutrition	Session 8: Screening for malnutrition and referring a child who is malnourished
Session 22: The ENA and contact points (only for health workers)	
Session 23: Improving nutrition at community level and developing action plans	Session 14: Implementation and action plans
Session 24: Post assessment and course evaluation	Session 14: Implementation and action plans
Not included	Session 10: Gender Roles
Not included	Session 12: Homestead food production and nutrition
	 A Reference Handbook:
	Practice 22: Raising diverse crops and small animals, and consuming a varied diet
	Practice 23: Diversifying crops for a varied diet
	Practice 24: Importance of a varied diet for pregnant and lactating farmers
	Practice 25: Raising and eating fish
	Practice 26: having small-animal products
	Practice 27: Taking care of poultry or small livestock
	Practice 18: Composting

TRAINING GUIDE FOR HEALTH WORKERS	TRAINING GUIDE FOR COMMUNITY WORKERS
	Practice 29: Water management through mulching
	Practice 30: Farmers' role in providing a varied diet to their pregnant and lactating wives and children under two

Document #56: Supervision Guidelines for Community Workers

Objectives

- Reinforce the importance of supporting community workers in their ongoing activities to assure quality of their work and continued motivation
- Mentor community workers in promoting nutrition, hygiene, and homestead food production.
- Provide further opportunities for learning and exchanging experiences.

Time

2 hours 15 minutes

Frequency of supervision

- For community workers: At most one month after training, then every two to three months, as needed.
- For community groups functioning well: Every three to four months.

Activity 1: Problems and Solutions in Breastfeeding, Complementary Feeding, Sick Children, and Women's Nutrition and Micronutrients

(45 minutes)

- Each participant writes (or thinks of) two questions relating to breastfeeding, complementary feeding, sick children, and women's nutrition and micronutrients.
- Have participants form three groups.
- Have group members list all their questions and then as a group, discuss answers to shared questions.
- In plenary, pose the questions, with facilitators to help provide answers.

Activity 2: Assessment of Negotiation Field Practice

(1 hour 30 minutes)

- Divide participants into pairs.
- Ask participants to practice negotiation sessions (four to six mothers per team).
- Divide the tasks for each team as follows:
 - One participant negotiates with a mother while other participants observe, using the negotiation observation checklist (see Document #26B, Observation Checklist for GALIDRAA Counseling Steps, above). Then participants provide feedback.

- Reverse roles until each team has negotiated with four to six mothers.
- When all the teams have had a chance to practice negotiation skills, review feedback in plenary.
- In plenary, have each team present the strong points and points to be improved.
- Summarize key points and reinforce important ones.

Activity 3: Experience Sharing

(45 minutes)

- Divide participants into three groups.
- Have each group describe its community work.
- Discuss the strong points, problems encountered, and solutions undertaken to solve those problems.
- For each unsolved problem, ask group members to suggest potential appropriate solutions. The goal is for group members to see how to improve their way of working, choose which activities to maintain, and decide on optimal next steps.

Closing

- Present and summarize group thoughts and highlights.
- Set a date for the next meeting.

Document #57: Action Plan Template for Implementation of ENA & EHA Program

ACTIVITY	WHO	NUMBER OF PARTICIPAN TS	WHEN	WHERE	RESOURCES/MATERIALS REQUIRED	FOLLOW-UP	RESPONSIBLE	TARGET

Document #58: Post-Assessment

Please read through the following statements. Select Yes if you agree with the statement or select No if you disagree with the statement.

#	POST ASSESSMENT	YES	NO
1.	When breastfeeding, the baby's chin needs to touch the mother's breast.		
2.	Vitamin A supplementation is necessary only for children under 1 year.		
3.	Even if a mother believes she does not have enough breastmilk, she can still be able to adequately breastfeed her baby.		
4.	A mother can prevent sore and cracked nipples by correctly positioning and attaching her baby at the breast.		
5.	Watery food is a better food for a 6-month old baby than soft porridge.		
6.	The mother or caregiver needs to play with the baby to encourage the baby to eat all the food given.		
7.	Animal products, beans and legumes are the foods that help a child grow.		
8.	Young children should be breastfed for at least 1 year.		
9.	Mothers need support from the family or the community in order to feed their children.		
10.	When a young child over 6 months has diarrhea, the mother needs to decrease the frequency of breastfeeding, frequency of other liquids, and the frequency of foods to give child's stomach a rest,		
11.	A pregnant woman needs to eat more than a woman who is lactating.		
12.	Red meat, liver, and green leafy vegetables contain iron.		
13.	A malnourished mother is likely to give birth to a low birth weight child.		
14.	Breastfeeding benefits only the baby.		
15.	It is important to sleep under an ITN to prevent anemia in women and children.		
16.	Pregnancy and lactation are the only points in the lifecycle of females where nutrition should be improved.		
17.	It is important to focus on pregnant and lactating women and children under two year of age to improve nutrition outcomes.		

#	POST ASSESSMENT	YES	NO
18.	When a mother is HIV-positive, she cannot breastfeed.		
19.	Integration of nutrition into other sectors means reaching mothers, their babies and children at critical contact points in that sector.		
20.	In traditional complementary foods, iron is almost always deficient.		

Document #59: Pre- and Post-Assessment: Answers

#	PRE AND POST ASSESSMENT	YES	NO
1.	When breastfeeding, the baby's chin needs to touch the mother's breast.	х	
2.	Vitamin A supplementation is necessary only for children under 1 year.		х
3.	Even if a mother believes she does not have enough breastmilk, she can still be able to adequately breastfeed her baby.	х	
4.	A mother can prevent sore and cracked nipples by correctly positioning and attaching her baby at the breast.	х	
5.	Watery food is a better food for a 6-month old baby than soft porridge.		х
6.	The mother or caregiver needs to play with the baby to encourage the baby to eat all the food given.	х	
7.	Animal products, beans and legumes are the foods that help a child grow.	х	
8.	Young children should be breastfed for at least 1 year.		х
9.	Mothers need support from the family or the community in order to feed their children.	Х	
10.	When a young child over 6 months has diarrhea, the mother needs to decrease the frequency of breastfeeding, frequency of other liquids, and the frequency of foods to give child's stomach a rest,		х
11.	A pregnant woman needs to eat more than a woman who is lactating.		х
12.	Red meat, liver, and green leafy vegetables contain iron.	х	
13.	A malnourished mother is likely to give birth to a low birth weight child.	х	
14.	Breastfeeding benefits only the baby.		х
15.	It is important to sleep under an ITN to prevent anemia in women and children.	Х	
16.	Pregnancy and lactation are the only points in the lifecycle of females where nutrition should be improved.		х
17.	It is important to focus on pregnant and lactating women and children under two year of age to improve nutrition outcomes.	х	
18.	When a mother is HIV-positive, she cannot breastfeed.		х
19.	Integration of nutrition into other sectors means reaching mothers, their babies and children at critical contact points in that sector.	х	
20.	In traditional complementary foods, iron is almost always deficient.	Х	

Document #60: ENA&EHA: Course Evaluation

Dear Participant,

Thank you for your valuable time for contributing and participating in this training. Please take a few minutes to reflect on the training and provide your feedback which will be used to improve future trainings.

Place a V in the box that reflects your feelings about the following:

	GOOD	AVERAGE	UNSATISFACTORY	REMARKS
The Training objectives were met				
The training methods used were mostly				
The reading materials used were mostly				
The Field Practice session was mostly				
Your capacity to carry out an identical training (for TOT) is				
Time allocation for discussions was				
Facilitation of the workshop was mostly				

- 1. Which sessions/topics did you find most useful?
- 2. Which sessions/topics did you find less useful?
- 3. What are your suggestions to improve the training?

