Conceptual Article

Selective feeding centres in refugee settings: evaluation framework protocol

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Selective feeding programs are centres for the treatment of persons suffering from acute malnutrition. Unlike chronic malnutrition, acute malnutrition reflects recent problems. In a crisis situation, wasting is preferred above other indicators because it is sensitive to rapid change, indicates present change, can be used to monitor the impact of interventions and is a good predictor of immediate mortality risk. This paper reviews the current approach being used in the field to evaluate the effectiveness of feeding programs. There is no comprehensive evaluation framework in place to assess the impact of feeding programs on mortality due to malnutrition. Some loose outcome measures, such as the number of children enrolled in a feeding centre, are being used to determine if a feeding centre should continue. In addition, malnutrition prevalence and crude mortality rates determined through nutritional and mortality surveys are used to assess the impact of feeding programs. This procedure does not take into account potential confounding factors that impact on malnutrition prevalence, including access to non-relief foods and the general food ration. Therefore, one could not confidently say that the reduction of malnutrition prevalence is a result of feeding programs. This paper presents an alternative approach to evaluating feeding centres.

Key words: evaluation, feeding programs, malnutrition, refugees.

Background

Selective feeding programs (SFP) are programs that look after acutely malnourished people and those at high risk of malnutrition. They include therapeutic feeding programs and supplementary feeding programs.^{1,2} Therapeutic feeding programs are programs that treat severely malnourished persons (children, adolescents and adults), while supplementary feeding programs deal predominantly with moderately malnourished children, pregnant women, lactating mothers and, in some cases, people who are unable to look after themselves: notably unaccompanied children, orphans, the disabled and elderly. This paper, however, will concentrate solely on proposing an evaluation framework for SFP to treat acutely malnourished children.

There are various published materials and guidelines regarding the management of malnutrition in emergency situations,^{3,4} but there is a paucity of evaluation frameworks to appraise the effectiveness of feeding centres. Current practice in the field is not based on clearly defined goals and objectives and hence, lacks a framework whereby it can be objectively evaluated. Therefore, the aim of this paper is to apply standard program evaluation methods to refugee public health nutrition in emergency situations. In proposing this evaluation framework, the author is drawing from his experience working with international non-government organisations (NGO) and United Nations agencies as a nutritionist in refugee settings, and is attempting to respond to concerns raised in forums and symposia on nutrition in emergency

situations, in which the author has participated. This evaluation proposal is applicable both to nutritional programs at the onset of a disaster and also to established refugee camps, although some adjustment to the timeline is needed such that it is reflective of any given situation.

Introduction

Having crossed borders into neighbouring countries, refugees leave behind their belongings and are totally dependent on humanitarian aid. They find themselves without food, shelter or health care and are therefore susceptible to infectious disease outbreaks. Some of these diseases are contributing factors to malnutrition in the most vulnerable groups, such as children aged less than 60 months. A complex nutritional and medical intervention needs to be put in place in order to reduce the crude mortality rate and maintain it at normal levels. Nutritional intervention without a medical intervention is not sufficient to reduce the mortality due to global (severe and moderate) acute malnutrition. Considering the relationship between malnutrition and infectious disease, the success of selective feeding programs is limited

Correspondence address: Mr Andre M.N. Renzaho, Research and Evaluation Coordinator, Centre for Culture Ethnicity and Health, 23 Lennox St, Richmond, Victoria 3121, Australia. Tel: +61 39427 8766; Fax: +61 39427 8363 Email: andre@ceh.org.au; renzaho@bigpond.com Accepted 7 November 2001 without treatment and surveillance of the main causes of death in the malnourished. These include dehydration, infection, hypothermia, hypoglycaemia, cardiac failure and severe anaemia.¹ Thus, selective feeding programs will aim to treat infections while at the same time correcting metabolic imbalances and vitamin deficiencies. It is not the aim of this paper to discuss systematic treatments and feeding practices in selective feeding programs; a well-covered discussion of these issues is presented by Médecins Sans Frontières.⁵

There are other types of nutritional programs that are run in emergency situations alongside SFP to meet the nutritional needs of the whole population. These programs are known as general feeding programs.⁶ The general food program most commonly implemented in emergency situations is the general food distribution (GFD) program. A GFD program is a nutritional program that aims at meeting the minimum food and nutritional needs of the whole affected population through the distribution of a standard general ration. Ideally, the ration provides at least 2100 kcal per person per day, of which 10% comes from protein and at least 10% comes from fat.⁷ There is, however, a relationship between a GFD program and SFP. Research has shown that GFD programs are inversely associated with malnutrition prevalence. That is, an adequate GFD program limits the deterioration of nutritional status of the affected population while inadequate GFD programs have been associated with high malnutrition prevalence.8 Because malnutrition prevalence is a key factor when determining the need for SFP, GFD programs impact indirectly on the effectiveness of SFP. Hence, when evaluating SFP, the impact of GFD programs should be measured and correlated to the effectiveness of SFP.

Are selective feeding programs amenable to evaluation?

There is a process to undergo in order to determine if a program can be evaluated. This process is known as evaluability assessment.9,10 Evaluability assessment is more concerned with whether or not a program is ready to be evaluated, and with four evaluation requirements¹¹ that need to be satisfied. These conditions are also valid for selective feeding programs and can be summarised as follows:1 (i) There must be a logical reasoning between completely defined program activities and the program goals.² (ii) The program must have been properly implemented.³ (iii) There must be a clearly defined evaluation question that is agreed upon.⁶ (iv) There must be an agreed evaluation measure and method of evaluation. Careful planning is required to meet these conditions. However, given that selective feeding programs are usually designed in response to an emergency, some steps, such as designing clear and concise goals and objectives, are often missed. If a selective feeding program is well designed, the final plan should be precise enough for a person other than the designer to pick it up and implement it. Because goals, objectives, sub-objectives and strategy objectives relate directly to the evaluation outcome measure,¹¹ failing to determine them makes valid evaluation of selective feeding programs problematic, if not impossible.

Defining goals, objectives, sub-objectives and strategic objectives of a feeding centre

There are many ways of defining goals and objectives. For this paper we have used a health analysis model using the Precede-Proceed planning model¹² as a conceptual framework to illustrate how goals, objectives, sub-objectives and strategic objectives of selective feeding programs should be defined. The Precede-Proceed model has been successfully used in health planning and is based on the premise that factors important to a health problem must be diagnosed before the intervention is designed. These include factors that affect behaviours that are divided into predisposing, enabling and reinforcing factors. Predisposing factors deal with issues related to attitudes, beliefs and values as means of motivation for behaviour. Enabling factors are skills and resources that are required to facilitate change, while reinforcing factors are issues related to social support, which provide an incentive for particular behaviour.^{13,14} So, the use of the Precede---Proceed model as a tool to analyse health problems and define the goals, objectives, sub-objectives and strategic objectives of the feeding program will in turn indicate the responses required to address the identified health problems.

A potential problem with the implementation and subsequent evaluation of selective feeding programs arises if providers fail to start the planning from an outcome point of view. In an emergency situation, good planning should consider the health problem and work backwards to determine the cause of and contributing factors to it. Interventions should be targeted at the preceding factors that resulted in the health problem. The health problem may, for example, be a high malnutrition prevalence rate or a high proportion of mortality due to malnutrition, or even a high proportion of malnutrition and mortality due to inappropriate feeding practices such as bottle feeding. It is the cause and factors that contribute to the health problem that should be targeted when shaping and defining both the nature of selective feeding centres and the appropriate goals and objectives to achieve; ultimately determining outcome measures and the kind of evaluation to be carried out.

Suppose that a selective feeding program composed of two therapeutic feeding centres and four targeted supplementary feeding centres has been running for 5 months in a refugee camp. A formative evaluation identifies high mortality due to malnutrition as the main health problem. How would one redefine goals and objectives? Fig. 1 presents how a health analysis would be carried out using a Precede---Proceed planning model, and Fig. 2 presents the goal, objectives, sub-objectives and strategic objectives as a response to identified health problem pathways. We note that, in Fig. 2, the goal is concerned with the outcome evaluation, the objectives and sub-objectives are concerned with the impact evaluation and the strategy objectives are concerned with the process evaluation. In addition, it is implied from Fig. 2 that one works from bottom to top when implementing nutritional programs. In other words, the achievement of sub-objectives is dependent on how successfully and effectively one implemented the strategy objectives. Likewise, sub-objectives must

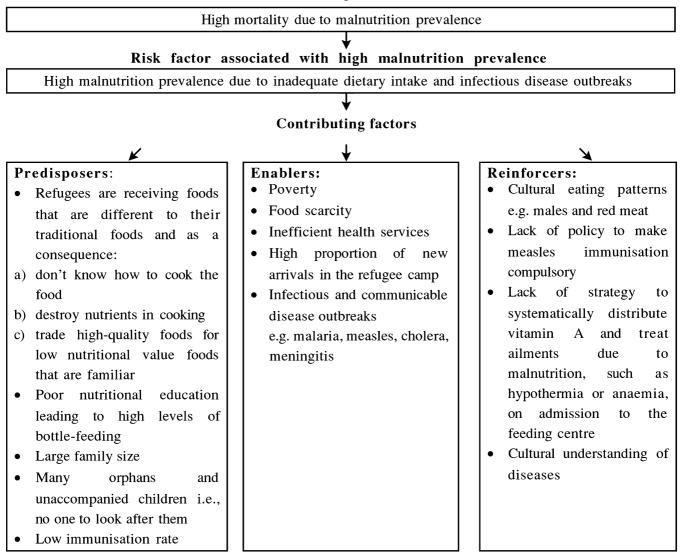


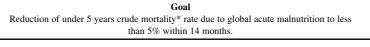
Figure 1. Analysis of the health problem.

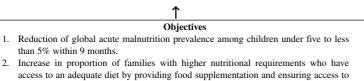
be met to ensure the achievement of objectives and ultimately the achievement of the program goal.

The percentage points by which the sub-objectives are to be increased or reduced should be reflective of the actual situation and will vary from one refugee camp to another. However, the baseline data may not exist at the time of defining sub-objectives. We suggest that baseline data regarding key indicators of sub-objectives be collected through a health survey, either planned and implemented as part of the initial nutritional survey or a stand-alone survey. This health survey should incorporate the 'educational diagnosis'. The educational diagnosis is a process whereby the causes of health behaviours are assessed and those factors, if modified, that are known to be most likely to result in behaviour change are selected and form the basis of the formulation of learning objectives (sub-objectives).¹⁵ In emergency situations the health survey should collect data on the factors that motivated behaviour prior to the occurrence of the observed nutritional status.1 These include the knowledge and understanding of malnutrition and the malnutrition–infection cycle, beliefs and values regarding feeding practices, food sharing at the household level and attitudes towards the nutritional strategies that are being implemented for the affected population.² Factors that facilitate action required to attain specific objectives, notably, accessibility to and acceptability of health and nutritional programs (e.g., health-seeking behaviours, level of security, household food security), availability of tools (e.g., availability of cooking utensils), skills (e.g., existence of skilled refugees that could be employed locally) and health legislation and policy in the host country (e.g., identify rewarding legislative measures or policies regarding immunisation, public health surveillance, management of chronic disease and so forth) are also important.

Planning the evaluation

If a selective feeding program has been thought through carefully and planned thoroughly prior to implementation, then it will outline clearly three evaluation steps critical to its





and distribution of an adequate general food ration. 3. Ensure adequate dietary intake by increasing the proportion of vulnerable groups that have access to their food share within the household, and by maximising public health surveillance such that the affected population has less exposure to communicable diseases, access to adequate health services and potable water, and the sanitation is adequate.



- 1. Starting from the third month of program implementation, increase community understanding of the malnutrition infection cycle and its importance in reducing malnutrition (by the end of the program).
- 2. Starting from the third month of program implementation, increase the proportion of families who understand that the child must be served first and not the father because the child is vulnerable (within 4 months).
- 3. Increase the proportion of families who immunise their children (within 6 months).
- 4. Starting from the seventh month of program implementation, increase knowledge of how to cook the actual food received from general food ration in order to make it palatable for children (within 5 months).
- Starting from the third month of program implementation, increase the proportion of 5. families who seek health care (within 3 months).
- 6. Improve the attendance rate and the coverage of the target population (within 3 months).
- 7. Increase the proportion of families that have safe access to food (within 2 months).
- 8. Increase the proportion of families that have access to constant, reliable food supply meeting their food and nutrient requirements (within 2 months).
- 9. Increase the proportion of families and vulnerable groups that have access to their food entitlements and minimise the proportion of families who trade their high nutritional value foods for less quality food (within 5 months).
- 10. Reduce the risk of diarrhoeal disease at both the household and population level (within 1 month).

Strategy objectives

- Strategy to achieve sub-objectives 1-4: Establish therapeutic feeding centres (TFC) and supplementary feeding centres (SFC) for treatment (medical and nutritional support) of severely and moderately malnourished children, respectively. In these feeding centres:
 - 1. Nutritional and health education should be an integral part of the feeding centres' activities. The education should cover issues related to cause of and contributing factors to malnutrition, feeding practices, food aid preparation, the relationship between infection and malnutrition and the importance of immunisation
 - 2. An immunisation site should be established to assess and update the immunisation status of admitted children.
- Strategy to achieve sub-objectives 5-6: Recruit and train staff in the screening procedure, running and managing the feeding centres and thereafter establish outreach teams to systematically screen the population to identify vulnerable families or individuals, follow-up defaulters and abandons, and health information teams for case finding and collecting morbidity and mortality data.
- Strategy to achieve sub-objectives 7-9: Implement measures that guarantee the targeted population's access to adequate food by:
 - Liaising with the local authorities and communities to increase security.
 - Coordinating with stakeholders and partners to ensure adequate food supply and 2. its nutrient content.
 - Liaising with the General Food Distribution team to establish a food basket mon-3. itoring to ensure regular food distribution and to advocate for better quantity and quality of the ration
 - 4. Establishing a team that will monitor food availability and prices at the local market and carry out household food availability surveys.
- Strategy to achieve sub-objective 10: Coordinate with the water and sanitation team to ensure provision of potable water and waste disposal.

Figure 2. Response to identified health problem pathways. *Suppose that a formative evaluation found a mortality rate of 4/10 000/day, of which 35% was due to measles, 30% to diarrhoeal disease, 25% to malnutrition and 10% to respiratory infection. The goal is to reduce the mortality rate due to malnutrition to less than 5% (that is, a reduction of more than 20%).

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success:¹¹ (i) formative evaluation; (ii) process evaluation; and (iii) summative evaluation. A formative evaluation is the evaluation conducted before the program is implemented and includes a needs assessment. This process aims at identifying the priority health problem and analysing the health problem. Process evaluation measures the extent to which the program is implemented and run the way it was intended, while the summative evaluation assesses the extent to which the program impacts immediately on the identified health issue (impact evaluation) or in the longer term (outcome evaluation).

Formative evaluation

Needs assessment

Needs assessment is the first step in planning an evaluation framework. This stage aims to answer three questions:¹⁶ (i) What other needs assessments have been done in the region? (ii) What questions remain to be answered? (iii) What form of data collection is appropriate to answer these questions?

Qualitative survey. Through observation, interviews with community leaders and existing NGO, a quick evaluation of the situation will aim to determine food availability and accessibility. This evaluation will help define the severity of the problem and therefore estimate the resources and staff required. Data to be gathered include determining where the food comes from, food retail outlet data, breastfeeding initiation and duration, food habits and practices, existence and quality of water and the presence of infectious and communicable disease outbreaks, notably diarrhoea and measles.⁷ This data is often collected in an initial rapid assessment.

Quantitative survey. At this level, the formative evaluation is concerned with nutritional surveys conducted generally among children under five years of age. Data to be collected include weight, height, age, presence of oedema and mid-upper arm circumference (MUAC) to compute the indexes, such as weight-for-height or MUAC-for-age, that are used to define the nutritional status.¹¹ It is worthwhile pointing out that, in emergency situations, the age distribution data may be inaccurate. Therefore, the total number of children under five years of age is assumed to be 20% of the total population where this figure cannot be obtained.⁵ Using standard sampling methods, the prevalence of malnutrition will be estimated and hence the number of malnourished children determined. The number of malnourished children expected to be admitted to a therapeutic feeding centre would be the total number of children under five multiplied by the percentage of severe acute malnutrition prevalence. Likewise, the number of malnourished children expected to be admitted to a supplementary feeding centre would be the total number of children under five multiplied by the percentage of moderate acute malnutrition prevalence.

Other quantitative data to be collected include demo-

graphic data, that is, the population size and its age and gender distribution, how much food is given to each person per day (estimated as kcal/person/day), mortality rate, number of doctors per 10 000 persons and number of nurses per 10 000 persons.⁵ Figures obtained are evaluated against existing benchmarks to assess the severity of the situation and influence decision making.

Once a formative evaluation is completed a program logic and outcome hierarchy should be constructed. A program logic, also known as treatment theory, refers to the fundamental logic that guides the development of a health intervention program, underpins program activities, gives good reason for resource allocation to the program and leads to a hierarchy of specific outcomes.¹⁷ In other words, program logic provides a theoretical framework of how a program functions. An example of program logic is presented in Fig. 3. The program logic should not be confused with the decision-making framework for the implementation of SFP. Program logic should be understood as a process that occurs after a decision has been made to start SFP and after data from the initial rapid assessment are available.

Process evaluation

The variables to taken into account during the process evaluation of SFP are summarised in Fig. 4. During process evaluation, there are four questions that should be asked about the program.¹¹ These are: (i) To what extent is the program reaching the target group? (ii) Is the program meeting its participants' expectations in terms of satisfaction? (iii) Did the program implement all its activities? and (iv) Are the quality of materials and components of the program good enough? Therefore, variables used traditionally for monitoring selective feeding programs, such as attendance rate, coverage rate, length of stay, average weight gain, proportion of exits and attendance reports,5 are more concerned with how well a program is functioning, that is, process evaluation. Given that the number of children registered in feeding centres is dependent on coverage rate, closing down selective feeding centres based on the number of patients registered can be misleading. For instance, one current criterion being used in the field is that if there is less than 20 children registered in the therapeutic feeding centre and less than 30 children in the supplementary feeding centre,7 the centre should close down. There are three grounds on which to dispute this decision-making process. First, it may be that children are not attending because foods given to them are not culturally acceptable or staff and services being provided are culturally insensitive. Second, it may be that there is high insecurity in the area or the centre is situated far from the beneficiaries, making accessibility to the centre difficult. Finally, it could be that the program does not have an effective outreach program to follow up defaulters. These problems should be picked up by the process evaluation and the program adjusted accordingly. Therefore, because closing feeding centres should be an outcome-based evaluation, the abovementioned variables do not tell us anything about the impact of selective feeding centres.

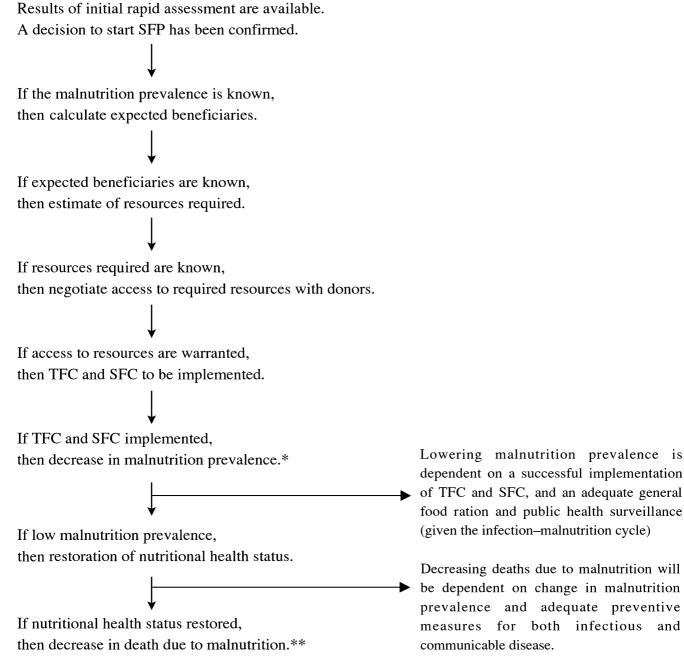


Figure 3. An example of program logic for selective feeding programs. *This assumes that the general food ration is itself adequate. **This assumes also that other medical services (e.g., paediatric hospitals, public health interventions regarding water and sanitation, immunisation) are adequate. TFC, therapeutic feeding centre; SFC, selective feeding centre.

Consider the case where a program is implemented but the outreach program is inadequate. Children may fail to attend the feeding centre because they died at home. At the end of the month these children may be classified in the statistics as defaulters rather than deaths. Because the denominator used to compute the proportion of exits is the sum of the successfully discharged, deaths, defaulters and transfers, failing to correctly classify deaths from defaulters underestimates the proportion of deaths, thus masking the program's ineffectiveness.

Summative evaluation Impact evaluation

The impact evaluation is more concerned with attainment of objectives and sub-objectives. Outcomes to be taken into account can be categorised into two groups: behaviour change and variation in health and nutritional status. However, in emergency situations, the behaviour change has always been overlooked. It is paramount to re-emphasise that behaviour change should be an integral part of any impact evaluation of SFP. The impact evaluation being carried out in

Questions			
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stent of implementation	Quality	Reach	Satisfaction
Attendance report will	Mean weight gain	Coverage rate	Attendance rat
reflect the size and the			
expansion rate of the	Objective : 15 g/kg	Objective: >75%	Objective : > 80 ^o
program.	bodyweight/day for	coverage of	attendance rate of
.	therapeutic feeding	expected	registered childr
• Is the admission rate	centres and	malnourished	
increasing? If not, why is	0.5–2.5 g/kg	children estimated	Defaulters
that? Who is responsible	bodyweight/day for	by nutritional	
for case finding? \Rightarrow If all	supplementary feeding	surveys	Objective: <10
malnourished children	centres		defaulters
cannot be reached, there			
is a section which is not	Mean length of		
fully implemented; needs	stay		
review.			
	Objective: mean		
• Is the proportion of	length of stay < 30		
defaulters high? If yes,	days in TFC and <60		
who is responsible for	days in SFC		
follow-up? \Rightarrow if			
defaulters are not	Transferred		
followed up to find out			
reasons for absenteeism,	Objectives: <15%		
then some sections of the	transferred		
program are not fully			
implemented; needs	 Successfully 		
review.	recovered		
Number of feeding	Objectives : >80%		
centres: is the number of	recovery for TFC and		
feeding centres	>70% recovery for		
commensurate with	SFC		
expected malnourished	510		
children?	• Deaths		
Is the centre picking up			
some of the newly arrived	Objective: death rate		
malnourished children	<5% for TFC and		
where the population is	<3% for SFC		
unstable and a major			
influx is expected?	Measles		
-	vaccination		
Does the centre have			
enough staff and	Objective: 100%		
materials to run?	measles vaccination		

Figure 4. Example of a process evaluation of selective feeding centres. Cut-off points adapted from WHO.² TFC, therapeutic feeding centre; SFC, selective feeding centre.

emergency situations to assess the effectiveness of SFP is just not extensive enough as it concentrates solely on the reduction of malnutrition prevalence. This implies that one is evaluating the effect of dietotherapy without taking into account the nutrition and health education provided within the centre, such as the effect a feeding centre may have on health-seeking behaviour. In other words, while 3–6 monthly interval nutritional surveys are used customarily to assess the effectiveness of SFP, this evaluation is deficient without assessing whether the nutrition education provided in the therapeutic feeding centres has increased parents' knowledge of feeding practices (e.g., the child must be served first) or the proportion of parents who understand the relationship between infection and malnutrition and the importance of immunising children. If nutrition education is to be seen as an integrated part of the strategies implemented in SFP, its effect should be evaluated.

Another confounding factor that is always neglected is the effect of the general food ration. General food ration, together with SFP and other public health interventions, contributes to the amelioration of the nutritional status of the refugee population in emergency situations. Hence, the impact evaluation of SFP should not rely solely on fluctuation of malnutrition prevalence, as is the current practice, but should be thoroughly designed and implemented in such a way that the effect of other confounding factors (e.g., adequate general food ration and immunisation strategies) is estimated.

Outcome evaluation

Outcome evaluation is more concerned with goal attainment. As far as selective feeding centres are concerned, a goalbased evaluation could be utilised. This could be achieved by reviewing the six-monthly interval specific mortality rate and cause-specific mortality rate to check if mortality due to malnutrition has decreased. Goal-based evaluation alone is not sufficient to justify the change in occurrence. Therefore, it would be complemented by the theory-driven evaluation whereby a reduction in the malnutrition prevalence is checked through the effectiveness and completeness of the implementation of selective feeding programs. This involves assessing the reliability and adequacy of the general food ration, reviewing the public health and disease control measures in place and conducting seasonal and weather analysis. The reduction of the malnutrition mortality rate would also be checked through the reduction of malnutrition prevalence. An evaluation framework that shows the three levels of evaluation is presented in Fig. 5.

Evaluation timeline

Another element that is critical to assessing the effectiveness of SFP is the timeline. Timelines are rarely used. This is evidenced by the practice of using existing criteria for closing down a feeding centre based on enrolled numbers alone. This blurs the effective planning of SFP. Instead of having decision-making criteria as the basis of program planning, it would be better if building up a plan for intervention became a tool to set out what the programs aimed to do. This means defining goals and objectives, designing an evaluation framework and an appropriate timeline that shows different stages of program implementation. An example of an evaluation timeline to selective feeding centres is presented in Fig. 6.

Conclusion

Re-feeding malnourished children is an essential part of refugee health interventions where malnutrition contributes significantly to mortality. Therefore, the practice of re-feeding should be amenable to scrutiny and evaluation in order to guide best practice. Current practice in the field is not based on clearly defined goals and objectives and, hence, lacks a framework whereby it can be objectively evaluated. This paper presents a model for applying a modern evaluation framework to the traditional field-based feeding practices.

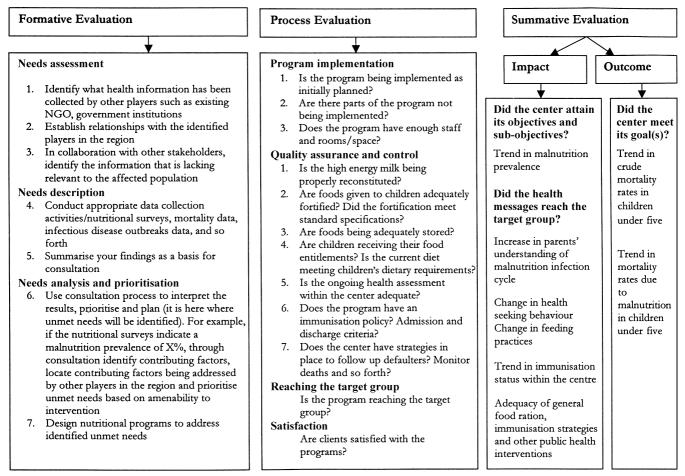


Figure 5. Evaluation framework incorporating three levels of evaluation. NGO, non-government organisation.

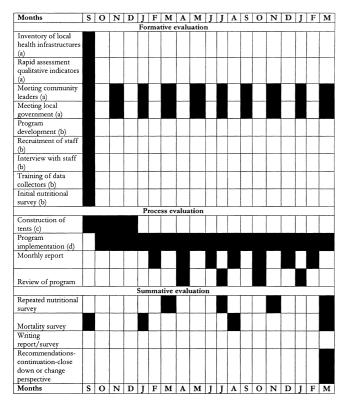


Figure 6. Example of an evaluation timeline for selective feeding centres. The program starts in September of year x and the summative evaluation is carried out 19 months later. (a) These activities are carried out within the first 2 weeks of arrival at the site. (b) Activities are carried out in the third and fourth weeks of September. (c) Construction of tents is progressive over a period of 3 months and starts in the fourth week following arrival at the site. (d) Selective feeding programs are implemented in the fifth week following arrival at the site.

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References

 World Health Organization. Management of Severe Malnutrition: A Manual for Physicians and Other Senior Health Workers. Geneva: WHO, 1999.

- World Health Organization. Management of Nutrition in Major Emergencies. Geneva: WHO, 2000.
- World Food Program. Food and Nutrition Handbook. Rome: WFP, 2000.
- 4. The Sphere Project. Minimum standards in nutrition. Humanitarian Charter and Minimum Standards in Disaster Response. Cited 18 September, 2001. http://www.sphereproject.org/handbook/nutrition.htm
- Médecins Sans Frontières. Nutrition Guidelines to Facilitate the Application of Fundamental Concepts and Principles Necessary for the Assessment of Nutritional Problems and the Implementation of Nutritional Programs in Emergency Situations. Paris: Médecins Sans Frontières, 1995.
- United Nations High Commissioner for Refugees, World Food Program. UNHCR/WFP Guidelines for Selective Feeding Programs in Emergency Situations. Geneva: UNHCR, 1999.
- Médecins Sans Frontières. Refugee Health: an Approach to Emergency Situations. Oxford: Macmillan Education, 1997.
- United Nations Sub-Committee on Nutrition. Report on the Nutrition Situation of Refugees and Displaced Populations. RNIS 29. Geneva: United Nations, 1999.
- Scanlon JW, Harris P, Nay JN, Schmidt RE, Waller JD. Evaluability assessment: avoiding type III and type IV errors. In: Gilbert GR, Conklin PJ, eds. Evaluation Management: A Source Book of Readings. Charlottesville: US Civil Service Commission, 1971.
- Wholey JS. Evaluability assessment. In: Rutman L, ed. Evaluability Research Methods: A Basic Guide. Beverly Hills: Sage Publications, 1977.
- Hawe P, Degeling D, Hall J. Evaluating Health Promotion: A Health Worker's Guide. Sydney: MacLennan and Pretty, 1990.
- Gielen AC, McDonald EM. The PRECEDE–PROCEED planning model. In: Glanz K, Lewis FM, Rimer BK, eds. Health Behaviour and Health Education: Theory, Research and Practices, 2nd edn. San Francisco, CA: Jossey-Bass, 1997: 359–383.
- Green LW, Kreuter MW, Deeds SG, Partridge KB. Health Education Planning: A Diagnosis Approach. Palo Alto, CA: Mayfield Publishing, 1980.
- Green LW, Anderton CL. Community Health. St Louis, MO: Times Mirror/Mosby College Publishing, 1986.
- Green L, Kreuter M. Health Promotion Planning, 2nd edn. Mount View, CA: Mayfield Publishing, 1991.
- Batterham R, Jordan H. Current Accepted Practice in the Assessment of Community Health Needs: A Guide for Divisions of General Practice. Melbourne: Access Support and Evaluation Resource Unit, University of Melbourne, 1997.
- Hawthorne G. Health Programs, Public Health and Evaluation: Evaluating Public Health Programs. Melbourne: Centre for Health Program Evaluation, University of Melbourne, 1997.