Nutritional response in north-eastern Nigeria: Approaches to increase service availability in Borno and Yobe States

Location: Nigeria

What we know: Six years of armed conflict in north-eastern Nigeria have resulted in mass displacement, severe food insecurity and undernutrition, and have destroyed livelihoods and further weakened fragile health systems.

What this article adds: In 2010 UNICEF supported integration of community-based management of acute malnutrition (CMAM) services (SAM treatment) into 75% of fixed health facilities in north-eastern Nigeria. In 2015 infant and young child feeding (IYCF) support and multiple-micronutrient powder (MNP) were added. Government has led scale-up of this integrated package; the number of centres has increased fourfold and the number of children treated has increased fivefold (2013-17). UNICEF has focused on supporting state government to meet immediate needs of severely malnourished children while strengthening the government health system. A minimum nutritional services package was finalised in early 2017. Multiple delivery platforms have been used (fixed health centres, IDP camp nutrition centres, community outreach, mobile services) and community nutrition mobilisers have increased coverage, including in insecure areas. UNICEF has provided financial and technical support, including supervision and monitoring, barrier analysis to poor performing sites, and context-specific supply chain management with roles defined for multiple stakeholders. Financing sources for scale-up have been mixed; some government, some UNICEF-dependent (especially in high conflict and clashes between government and non-state armed groups (NSAGs) has resulted in the proliferation of non-state armed groups (NSAGs). The prolonged crisis had led to a deterioration in health and other basic services, resulting in increased severe food insecurity and undernutrition. Outbreaks of diseases such as measles, cholera and diarrhoea had also been reported in the area, further aggravating the situation.

Before the conflict the situation in Borno and Yobe States was already fragile, with high levels of poverty, underdevelopment, unemployment and inequality. Six years of armed conflict and clashes between government and non-state armed groups (NSAGs) has resulted in millions of people displaced, thousands of lives lost and livelihoods destroyed in north-eastern Nigeria. The prolonged crisis had led to a deterioration in health and other basic services, resulting in increased severe food insecurity and undernutrition. Outbreaks of diseases such as measles, cholera and diarrhoea had also been reported in the area, further aggravating the situation.

More than half of internally displaced persons (IDPs) in north-east Nigeria fled their...
homes in 2014 and 2015 after NSAGs seized control of a territory covering more than 30,000 square kilometres, committing grave human rights abuses against local populations. A government-led military campaign subsequently saw the government regain control of the area. In 2016 the Nigerian security forces recaptured the main towns and villages of several local government areas (LGAs) and exposed the humanitarian needs of civilians there. Over 250,000 people living in secure ‘satellite’ camps at LGA capitals (including Bama, Dikwa, Monguno and Damboa) were reported in need of emergency assistance. Given the onset of the lean season and rainy season between May and September, the near-term outlook was also grim for the 180,000 food-insecure people in Maiduguri’s outer perimeter and 120,000 Maiduguri camp residents.

Since 2016 there has been improvement in the access of such communities to life-saving assistance; out of a total 27 LGAs in Borno State, 25 are currently accessible, compared to limited access to 22 LGAs in 2016 (see Figure 1). However, humanitarian access in conflict-affected areas continues to be constrained by restrictions on the movement of aid workers and civilians, especially in Borno State and to some extent Yobe State, as well as ongoing violence and a challenging physical environment (particularly during the rainy season). Borno State clearly remains the epicentre of the humanitarian crisis, with dozens of conflict incidents reported each month. In the crisis affecting north-east Nigeria, nine out of ten displaced persons come from Borno and the State also hosts the majority (78%) of IDPs.

Nutrition situation
The Cadre Harmonisé (CH) analysis of March 2018 indicates that an estimated 3.7 million people required emergency assistance between March and May 2018, with 3.9 million being reported as food-insecure. For the projected period of June to August 2018, these figures were expected to increase to about 5.3 million people in the absence of resilience-driven interventions and humanitarian assistance. Only 30% of health facilities are functional in Borno State, where malaria is endemic and cholera and other diseases affect the population regularly and are often life-threatening.

An estimated 943,000 children under five years old across Borno and Yobe States are acutely malnourished; 440,000 with severe acute malnutrition (SAM) and 503,000 with moderate acute malnutrition (MAM). Around 230,000 pregnant and lactating women (PLW) are estimated to be acutely malnourished. The nutrition situation in Borno and Yobe States declined rapidly due to the crisis in 2015, peaked in 2017 and has stabilised in 2018, with some exceptions in hard-to-reach areas (mainly in Damasak, Gubio, Kukawa and northern Yobe). Recent nutrition surveillance (by UNICEF, in collaboration with the National Bureau of Statistics (NBS)) revealed GAM and SAM rates of 6.4% and 1.2% in Borno and 12.0% and 1.3% in Yobe respectively.

Nutrition response scale-up: A combined approach
The nutrition response in north-eastern Nigeria has been driven by the strong political will and leadership of the Ministry of Health (MoH). While public services and institutions have been overstretched, and in some cases destroyed in affected areas, services have continued to function where possible. The emergency nutrition response has been integrated into the existing system, with active participation of key pre-existing stakeholders and therefore provides an example of humanitarian development programming in response to crisis.

UNICEF initiated support to community-based management of acute malnutrition (CMAM) programming in the north-east in 2010 for identification and treatment of children with SAM. SAM management was integrated in about 75% of fixed health facilities (FFHs) and UNICEF provided training and onsite coaching to enhance the capacity of government health workers and supplied ready-to-use therapeutic food (RUTF) and basic equipment for identification and treatment of SAM children. Infant and young child feeding (IYCF) support and multiple micro-nutrient powder (MNP) supplementation activities were initiated in 2015 after the crisis began. These were integrated into service delivery platforms in health facilities already delivering SAM treatment.

The push to scale up CMAM provision began in 2015 (as described in Figure 2), when the number of fixed health facilities (FFHs) delivering services increased by almost 30%. Scale-up was mainly focused on SAM children (admission...
**Box 1** Approaches implemented by partners to increase availability of nutritional services

**Fixed health facilities (FHFs):** FHFs are part of the government routine health system in host communities before the crisis. Nutrition services are integrated into FHFs as a component of the primary healthcare package. UNICEF has supported state government to integrate nutrition services (SAM treatment, IYCF support and MNPs) into primary healthcare services in 312 FHFs in Borno and Yobe States.

**IDP camp facilities:** These are set up temporarily in IDP camps to provide basic health and nutrition services to IDPs after they have arrived in a safe and secure location. IDP camp facilities were first established in 2015 in response to increased numbers of IDPs and the subsequent set-up of the first IDP camp in Borno State. UNICEF has set up 14 nutrition service sites in IDP camps for the provision of integrated nutrition services. UNICEF mobilised health workers displaced to IDP camps to work in the health/nutrition clinics, since they were still paid by government, and offered financial top-ups to motivate them to continue their work.

**Community outreach:** A community outreach team comprises two skilled people (one CMAM provider and one nutrition screener) for the identification and treatment of SAM children in densely populated areas, mainly in host communities. These teams were launched to reduce overcrowding in FHFs and provide daily nutrition services. Community outreach started in central Borno LGAs (Maiduguri metropolitan city (MMC), Jere, Konduga and Mafa) in 2016 to address the increased IDP influx and increased demand in services. UNICEF, in collaboration with state government, has set up 35 outreach sites from which community outreach teams operate.

**Mobile teams:** A mobile nutrition team comprises three skilled nutrition personnel (a CMAM provider, a nutrition counsellor and a nutrition screener/recorder). The team moves from one location to another to cover between three and five locations each week for the provision of integrated nutrition services in settlements/communities far away (>3 km) from FHFs. This approach started in August 2017 to increase the availability of nutrition services in remote communities. UNICEF, in collaboration with state government, has so far deployed 49 mobile nutrition teams, often to newly accessible areas where government infrastructures are completely damaged.

**Box 2** Community Nutrition Mobilisers (CNM)

CNMs are identified from the local community to strengthen the community mobilisation and sensitisation component of the nutrition programme. Duties include: active house-to-house nutrition screening of all children under five years old (700 to 1,000 children per CNM) and identification and referral of SAM children (ten days per month); follow up SAM children to ensure completion of treatment and appropriate use of RUTF and MNPs (four days per month); formation and facilitation of mother support groups (MSGs) for the protection, promotion and support of IYCF practices (five days per month); and one-to-one support for mothers with breastfeeding problems (three days per month). CNMs refer malnourished children (aged 6-23 months) or MAM children who are not receiving supplementary food for MNP, while SAM children are referred to receive appropriate treatment (RUTF and routine medicine). CNMs are paid and are guided by a terms of reference (TOR) defined and agreed by sector partners. UNICEF has partnered with three local non-governmental organisations (NGOs) to strengthen community mobilisation activities and ensure timely payment of CNMs. Local partner NGOs provide coaching to and supportive supervision of CNMs through 121 ward-level nutrition supervisors (local NGO staff). Supervisors conduct monthly review meetings between CNMs and FHF nutrition staff to collect monthly reports from CNMs, provide feedback on data quality, discuss challenges and lessons learned, provide monthly incentives to CNMs and plan community mobilisation activities for the subsequent month.

**Figure 3** Trends in SAM admissions and scale-up of CMAM service delivery units (SDUs) in Borno and Yobe States 2013-2017

- Number of sites delivering services
- Number of SAM children admitted for treatment
Prioritised to strengthen community mobilisation and to committed to a nutrition programme. This analysis sensitised the team and encouraged them to take adequate action to ensure that services are sustainable in the long term.

Supply chain management

Given the multiple stakeholders involved in the nutrition programme, and to overcome access difficulties, a context-specific supply management approach was used to mitigate any stock-outs at SDUs. Responsibilities of the different stakeholders were clearly defined, as follows:

- **UNICEF**: Responsible for supply provision of outpatient therapeutic programme (OTP) sites of newly liberated areas and south Borno. The UNICEF nutrition staff work with LGA nutrition facilitators to compile RUTF and MNP requirements for the logistics team, who supply to SDUs every two weeks.

- **State government central Borno**: Responsible for supply provision in FHF's and OTP sites in some LGAs in central Borno (MMC, Jere, Konduga and Mafa) due to state government access in these areas. The State Nutrition Officer (SNO) compiles RUTF and MNP requirements from each LGA, which are reviewed by UNICEF and then supplied by UNICEF Maiduguri logistics team to the government central medical store (CMS), from where they are sent to FHF's bi-weekly and outreach OTP sites weekly. Transport costs are covered by UNICEF.

- **International NGOs in Borno**: RUTF, R75, F100, MNP and ReSoMal requirements are sent monthly to UNICEF Maiduguri office by INGOs with programme cooperation agreements (PCAs) with UNICEF. Once requests are reviewed and released, INGO partners collect supplies from UNICEF Maiduguri warehouse and deliver to the OTP sites they support.

- **Yobe**: Yobe state primary healthcare management board (YPHCMB) forecasts quarterly supply requirements and UNICEF delivers to CMS. INGOs submit requests for RUTF and MNP with their monthly nutrition programme report to the state nutrition officer, who releases supplies from CMS for delivery by INGOs to SDUs. UNICEF and the SNO visit sites periodically for monitoring. For UNICEF-supported sites, the LAG nutrition focal person collates monthly SDU requirements and shares with the SNO, who arranges delivery in collaboration with UNICEF.

The humanitarian-development nexus

UNICEF's role in scale-up of services has focused on supporting state government to meet the immediate needs of severely malnourished children while strengthening the government health system. Strong advocacy is carried out with the government to ensure that the provision of nutrition services to the state population continues to be the responsibility of state government. The strong leadership shown by the government and continuous support to governance systems ensures that services are sustainable in the long term.

The support and funding of scale-up of nutritional services is mixed. In some areas it is funded by donors, while in others UNICEF internal funding was used for scale-up where the situation was critical and humanitarian assistance needs very high. In Borno and Yobe, government has not allocated any funds for RUTF as most of their funding is spent on security aspects; in other states, government has provided state governments with a cohort of qualified personnel who can be integrated into the health system to ensure programme sustainability during the transition period.

The effective coordination of partners and detailed gap analysis by the sector helped to identify gaps for scale-up. This process played a vital role in the rapid expansion of the programme. Subsequent periodic data analysis and feedback helped to identify and address ongoing gaps and issues in a timely way. A context-specific service delivery approach and supply chain management helped to address stock-out issues and create effective programming. The use of WhatsApp allowed for timely reporting and communication, even in areas with poor network coverage.

Investing in strengthening on-the-job training, supportive supervision and feedback has the potential to improve the quality of treatment services. Although the programme overall has met the minimum SPHERE standard (cure rate 87.2%; defaulter rate 9.6%; death rate 0.6%; and non-responder rate 2.6%), maintaining the quality of the programme across all sites while scaling up remains a problem. Disaggregated data reveal variations in quality across the different geographic areas.

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**Table:**

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<th>Year</th>
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**Figure 4:** Beneficiaries reached with IYCF support and MNP supplementation in 2016 and 2017

**Notes:**

1. F-100 and F-75 (also known as Formula 100 and Formula 75) are therapeutic milk products designed to treat severe acute malnutrition.

2. ReSoMal is used for the preparation of an oral rehydration solution used exclusively to treat severe acute malnutrition. It must be used under medical supervision in therapeutic feeding centres.