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Preventing Malnutrition in At-risk Children

**ALIMA's Experience with Routine
SQ-LNS in Niger**
27 June 2022



Hosted by the Nutrition subgroup

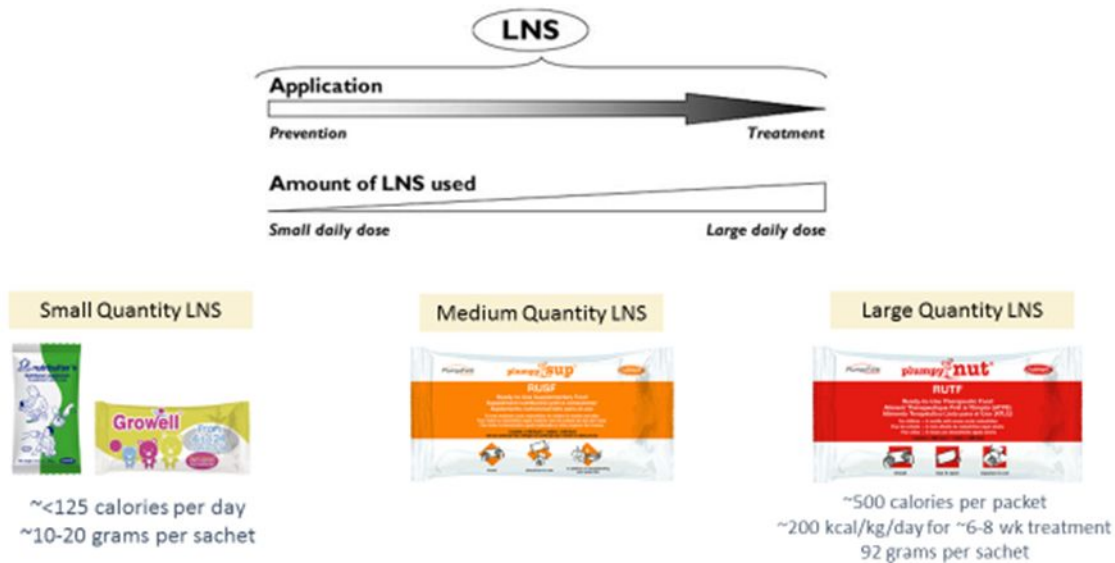
Small Quantity Lipid-based Nutrient Supplements (LNS-SQ)

Evidence for effectiveness



LNS-SQ

Lipid-based nutrient supplements (LNS)



Source: Dewey KG. 2022. FAQs for SQ-LNS (unpublished)

Effectiveness

Summary of relative reductions in adverse outcomes

Growth	Relative reduction (95% CI) %
Stunting (LAZ < -2 SD)	12 (9, 15) %
Severe stunting (LAZ < -3)	17 (10, 22)
Wasting (WLZ < -2 SD) (cross-sectional prevalence)	14 (7, 20)
Severe wasting (WLZ < -3)	31 (14, 45)
Underweight (WAZ < -2 SD)	13 (9, 17)
Acute malnutrition (WLZ < -2 SD or MUAC < 125 mm)	14 (7, 20)
Low MUAC (MUACZ < -2 SD or MUAC < 125 mm)	18 (11, 25)
Small head circumference (HCZ < -2 SD)	9 (5, 14)
Development	
Low language development score	16 (8, 24)
Low motor development score	16 (8, 24)
Low social-emotional development score	19 (11, 26)
Anemia & micronutrient status	
Anemia (Hb < 110 g/L)	16 (13, 19)
Moderate-severe anemia (Hb < 100 g/L)	28 (24, 32)
Iron deficiency (Ferritin < 12 µg/L)	56 (50, 61)
Iron deficiency anemia (Hb < 110 g/L & ferritin < 12 µg/L)	64 (56, 70)
Vitamin A deficiency (RBP < 0.70 µmol/L)	56 (30, 73)
Mortality	
	27 (11, 41)

Source: Dewey, Kathryn G., Christine P. Stewart, K. Ryan Wessells, Elizabeth L. Prado, and Charles D. Arnold. 2021. "Small-Quantity Lipid-Based Nutrient Supplements for Prevention of Child Malnutrition and Promotion of Healthy Development: Overview of Individual Participant Data Meta-Analysis and Programmatic Implications." *Am J Clin Nutr*. 2021 Nov 2;114(Suppl 1):35-145. doi:10.1093/ajcn/nqab279.

Cost-Effectiveness

- Webinar on [Effectiveness and Cost-Effectiveness of Small-Quantity Lipid-Based Nutrient Supplements](#)
 - Adams, Katherine P, Stephen A Vosti, Charles D Arnold, Reina Engle-Stone, Elizabeth L Prado, Christine P Stewart, K Ryan Wessells, and Kathryn G Dewey. 2022. "The Cost-Effectiveness of Small-Quantity Lipid-Based Nutrient Supplements for Prevention of Child Death and Malnutrition and Promotion of Healthy Development: Modeling Results for Uganda." Preprint. Health Economics. <https://doi.org/10.1101/2022.05.27.22275713>.
 - Hiebert, Lindsey, Kevin Phelan, Moumouni Kinda, Nafissa Dan-Bouzoua, Maurice Kyungu, Thomas Bounameaux, Sani Sayadi, Oumarou Maidadji, and Robert Hecht. 2021. "Costs of Implementing an Integrated Package of Maternal and Pediatric Interventions Including SQ-LNS in Rural Niger." *Food and Nutrition Bulletin* 42, no. 4 (2021): 567-583. <https://doi.org/10.1177/03795721211039869>.

Today's Speaker



Kevin Phelan
Senior Nutrition Advisor
ALIMA



Connect with the us



Engage with the **co-chairs**:

- Akriti: akriti_singh@jsi.com
- Oscar: ocordon@actionagainsthunger.org

What topics do you want the subgroup to address? Tell us: <https://bit.ly/NutritionTopics>

Subgroup information, recordings and presentations from previous meetings and webinars are available on the subgroup page of the Child Health Task Force website:

www.childhealthtaskforce.org/subgroups/nutrition

**The recording from this webinar will be available on this page later today*

Suggestions for improvement or additional resources are welcome. Please email **childhealthtaskforce@jsi.com**.



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