

StimNut: innovative community action research on psychosocial stimulation to improve care for severely malnourished children in Koutiala, Mali





CONTEXT

Physical stimulation (sensory input)

· Through touch, motor skills

What are the fundamentals of psychosocial stimulation?





Socialising, encouragements





 Affectionate bonds, care & attention



Psychosocial stimulation integrated into Severe Acute Malnutrition (SAM) treatment: StimNut





- ➤ Short- and long-term benefits for cognitive and social development
- Referred to in the SAM treatment protocol of the Malian Ministry of Health and Hygiene
- Strategies and interventions are not standardised and few resources are allocated
- Prevalence of SAM in children aged 6-24 months in Koutiala: 2.6%



METHOD



Study site: 2 community health centres (CSCOM*) from MoH supported by MSF-OCP + paediatric ward of Koutiala hospital



Study population: mother (or main caregiver)/child dyads

Data collection:

- Standardised pre/post intervention questionnaires (measuring maternal mental health with the Dusukasi scale)
- Observations of interactions between mothers and their children (measuring the quality of mother/child interaction using an adaptation of PICCOLO* tool)
- Semi-structured interviews with parents/primary caregivers, psychosocial workers and healthcare staff.

Inclusion criteria

- Child's age from 6 to 23 months
- Children treated at one of the study sites for SAM:
 - Transition phase (in hospital)
 - Rehabilitation phase (in CSCOM)
- Parent or accompanying person ≥16 years

MOH: Ministry of Health

PICCOLO: Parenting Interactions with Children: Checklist of Observations Linked to Outcomes

CSCOM: Community health centre





METHOD: PSYCHOSOCIAL INTERVENTION

Standard nutritional treatment



Manuel FUSAM:
5 psychosocial
stimulation sessions



- ✓ FUSAM: Follow-Up of Severe Acute Malnourished children
- ✓ 5 psychosocial stimulation sessions are offered to families in addition to the standard nutritional treatment.
- ✓ Exploring possible avenues and solutions for improving the care of severely malnourished children and supporting their parents in their role
- ✓ Supervision organised with an online psychologist trainer

Family welcome

Communication, fun and play

Feeding and breastfeeding

Massage, bath, sleep and relaxation

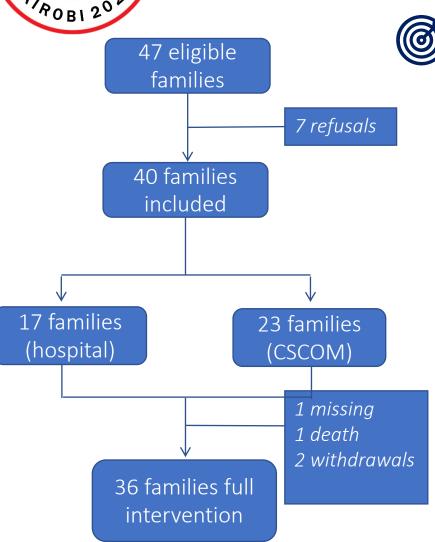
Sharing with the family





ANDIATRICOPY.

RESULTS of the intervention (Feb-May 2023)



- 149 sessions offered to families by 3 psychosocial workers: 18 in hospital and 131 in CSCOM
- 36 children, 34 mothers, 8 other accompanying adults (husband, nephew, brother-in-law, father-in-law, uncle)
- 122 **individual** sessions and 27 **group** sessions (with 2-3 families)
- Median time per session: 54 min [40-64].





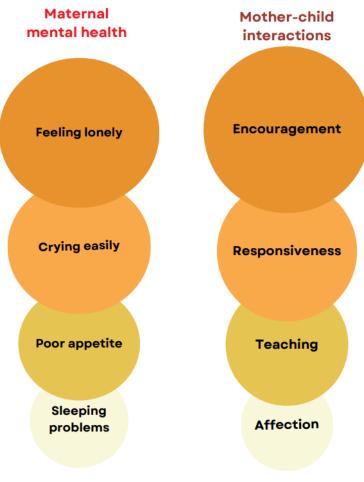


RESULTS



Improvement of maternal mental health
Improvement of mother-child interactions

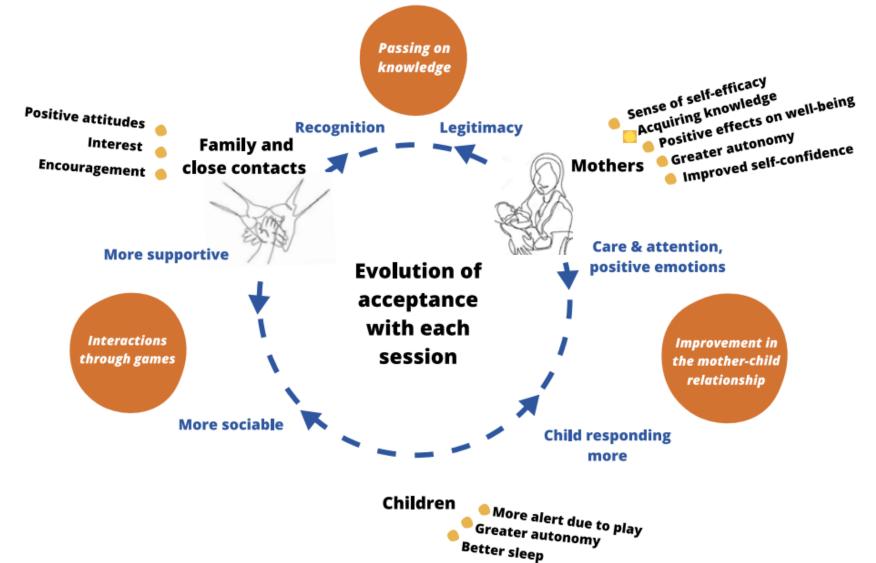
	Pre-intervention	Post-intervention	p-value
Dusukasi - n (%)			
Threshold mean score < 1.03	17 (47.2)	26 (72.2)	
(No symptoms of depression)			0.0011
Treshold mean score ≥ 1.03	19 (52.8)	10 (27.8)	0.0011
(Symptoms of depression)			
PICCOLO - mean score	n=36	n=34	
Affection	12.5	13.7	0.000
Responsiveness	11.7	13.7	0.000
Encouragement	9.6	12.7	0.000
Teaching	4.6	6.4	0.0004







RESULTS: acceptability of the mothers







RESULTS: acceptability of the mothers

Passing on

wledge

olution of

acceptance

with each

session

egitimacy.

"When I discuss with my co-wife, I tell her about the sessions we come here to do, and so does my husband when the three of us are sitting down and he asks me "What are you doing there? and I tell them what we talk about here". (Mother, aged 26)

"I had a child whose father tended to ignore (...) [now]. he plays with the child, even this morning when we called him he was playing with the child".

(Mother, aged 30)

"The day I arrived at the health centre, I was like a sick person, because if a woman is happy, it's because her child is happy too (...). Even breathing was difficult for me on the day I arrived at the health centre, I was restless all the time. The sessions helped me to relax".

(Mother, aged 30)



Children

More alert due to play

Greater autonomy

Better sleep





CONCLUSIONS / PERSPECTIVES



Feasibility of the intervention and good **acceptability** among mothers, health staff and psychosocial workers.



Great synergy between various stakeholders.



Encouraging results regarding maternal and child health and well-being.



The transformative effect of this study has enabled the continuation of psychosocial services within the care pathway of SAM children in Koutiala.



Needs identified in other contexts too \rightarrow ongoing discussions for scaling up of the intervention. Proposal of a framework for the replication of psychosocial stimulation intervention in other MSF projects and/or contexts.



THANK YOU!!!

To all the families for their valuable time and contribution to the sutdy as well as all members of the advisory, extended and selected committees.

MSF OCP

- The entire Koutiala field team
- The medical coordination in Bamako
- Idrissa OUEDRAGO, CDM Mali
- Marie Hortense KOUDIKA
- Fatoumata KOUMARE, Fatoumata COULIBALY, Yaloum ONGOIBA
- Dramane DOUMBIA, Anne Marie SANGALA, Souleymane SYLLA, Tidiane SAMAKE

Epicentre

- Prathama RAGHAVAN
- Sarah DIDIER
- Elisabeth POULET

Action contre la Faim

Karine LE ROCH



Malian Association for Awareness of Sustainable Development

- Dramane DAOU
- Aoua SISSSOKO
- Fatoumata COULIBALY

Ministry of Public Health and Social Development of Mali

- Abdoulaye GUINDO, Technical Advisor
- Youssouf DIAM SIDIBE, District Medical Officer

Traditional authorities

- Abdoulaye Daga THERA, Prefect
- Zoumana MALLE, cercle council











MORE INFORMATION

In French

https://epicentre.msf.org/stimnut-une-recherche-action-communautaire-innovante-de-stimulation-

psychosociale-pour-ameliorer-0

In English

https://epicentre.msf.org/en/stimnut-innovative-community-led-research-action-psychosocial-

stimulation-intervention-improve

https://www.youtube.com/watch?v=1FNGY43QOV8&embeds_referring_euri=https%3A%2F%2Fepicentre.msf.org%2F&feature=emb_imp_woyt

Contact: claire.bossard@epicentre.msf.org





