# HKI Senegal Successful M-Health strategy: The routine delivery of Vitamin A Supplementation at six months using SMS appointment reminders Dr. C Thiaw<sup>1</sup>, Amy Cooper<sup>3</sup> Maguette Beye<sup>2</sup>, Khadidjatou Thiam<sup>3</sup>, Dr. A. Thiam<sup>1</sup>,

<sup>1</sup>Helen Keller International, Senegal, <sup>3</sup> Consultant- Enquête rapide de couverture des Journées Locales de Supplémentation en vitamine A au Sénégal, 2005.
 <sup>4</sup> Stagiaire du Laboratoire de Nutrition, Comité Sénégalais pour la Fortification des Aliments en Micronutriments (COSFAM), Micronutriment Initiative (MI), 2010. Evaluation du statut en vitamine A, fer et zinc chez les enfants sénégalais âgés de 12 - 59 mois et chez les femmes en âge de procréer (15 - 49 ans) dans le cadre du programme de fortification des aliments en micronutriments au Sénégal. 2012, 155p

## Introduction

Vitamin A supplementation (VAS) in Senegal is carried out primarily through bi-annual Child Health Days where VAS and deworming are distributed to all children aged 6-59 months. Supplementation with vitamin A in the routine setting is relatively weak in Senegal, with 8% of children receiving a dose at a sick visit, 12% receiving a dose during a routine weigh-in and 15% receiving a dose during scheduled vaccination visits (HKI, USAID, 2005). Strengthening of the routine supplementation is of high importance and for this purpose a pilot project to test the effectiveness of an integrated package of interventions on VAS coverage at 6 month contact point (6mcp) that includes sms appointment reminders.

### Methods Cont'd

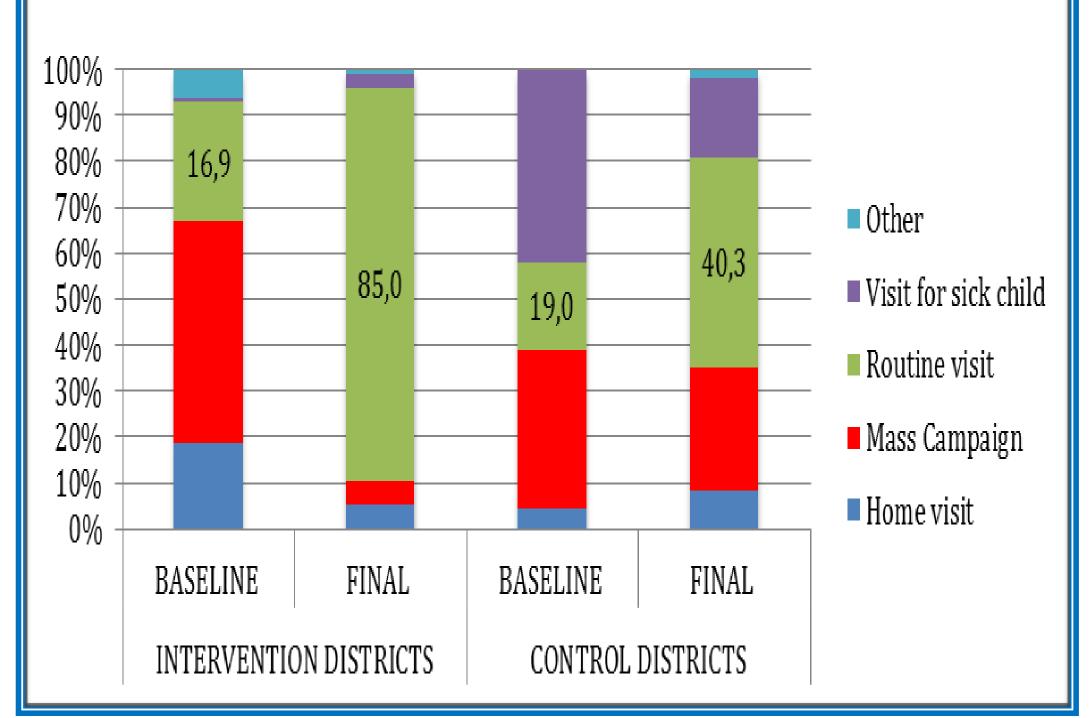
2) Census of Intervention Districts for a database of beneficiaries & their phone numbers.

3) With the use of Telerivet\* m-health software, SMS reminder messages are sent to improve demand
4) Weekly SMS stock reports to improve supply and reduce outage occurrences.
5) Social mobilization & sensitization activities such as radio spots, posters, follow-up visits etc.

#### **Occasion of VAS receipt % Final 2013**

Helen Keller

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### Objectives

 To improve Vitamin A supplementation coverage in the routine setting, particularly for children at six months.
 Raise awareness of the VAS sixmonth visit and increase both demand and supply
 Test the effectiveness of an integrated intervention package including *6mcp* on the child health card, *sms reminders*, and *sms stock* capsule monitoring.

#### **STUDY DESIGN**

#### Cross-sectional pre-post comparison design



Fig 5. Results of different occasion of VAS receipt in intervention and control zones pre/post integrated sms reminder package

Source of Information about VAS - Final



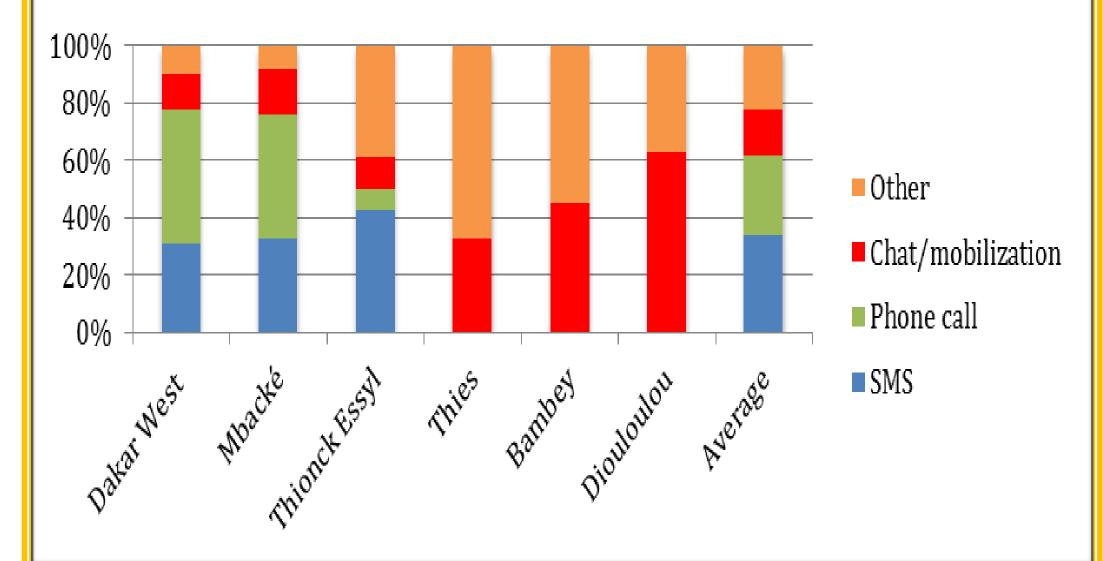




Fig 2. Illustration of Study design with integrated activities pre-post.



Fig 3. Illustration of flow of activities& information using mhealth strategeic plan

Results

Fig 6. Results of information source for VAS appointments in intervention and control zones

# Conclusions

 Coverage of Vitamin A supplementation at six-months in the routine setting significantly improved in all districts that implemented the sixmonth contact point.
 Use of low end mobile technology for sms appointment reminders could be useful in enhancing demand & supply for VAS.

3) Further strategies may be needed to achieve high coverage in urban and semiurban areas.

Fig 1. Child receiving Vitamin A red capsule

#### Methods

1) Baseline and Final Evaluation with randomized sampling in 6 districts; 3 interventions districts :Thionck Essyl, Dakar West, and Mbacke; 3 control districts: Thiés, Bambey and Diouloulou.

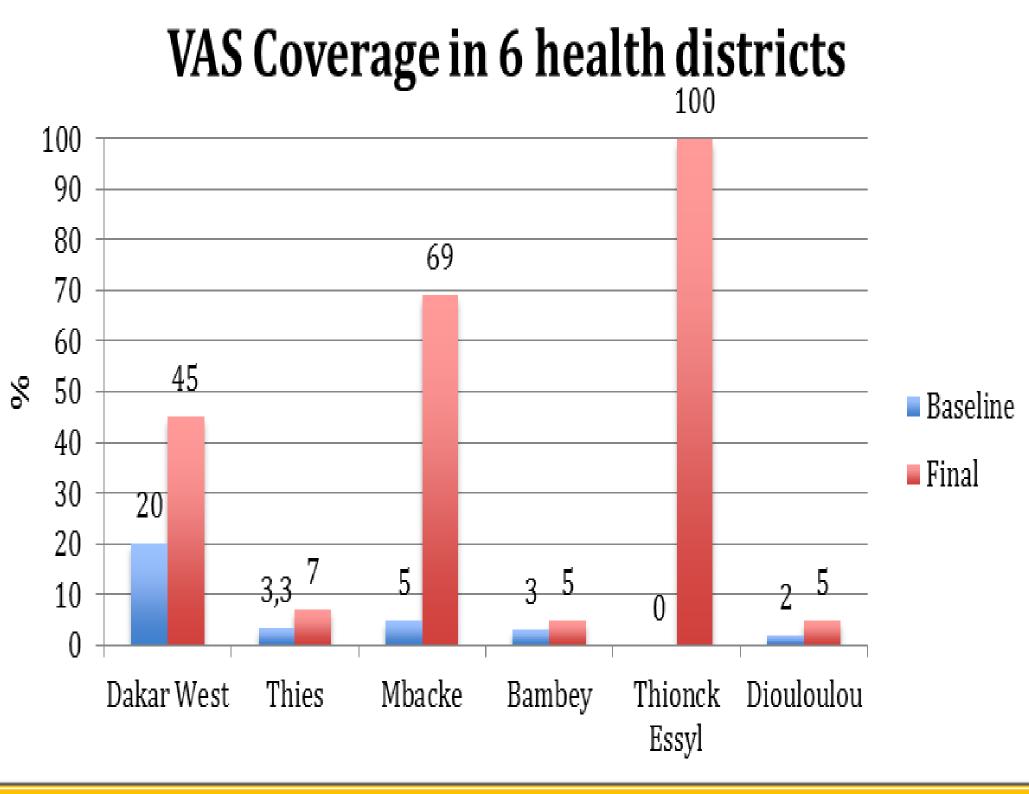


Fig 4. Illustrating % coverage pre-post intervention: (intervention-Dakar-ouest, Mbacké, Thionk Essyl, control- Thiès, Bambey, Dioloulou



Fig 7. Phones use by community health workers (CHWs) for stock sms and sms reminders