

Impact of behavior change communication and vegetable production on child growth and nutrition

Honafing Diarra World Vegetable Center 11-13 March 2019, Sikasso-Mali







Integrated programs

 Integration of agriculture, nutrition and WASH programs has the potential of improving the consumption of diversified and nutrientrich diets, reduce incidence of infectious diseases, thereby leading to improved nutrition and health status of households in target communities.

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Approach

- The sack garden approach was implemented in partnership with local communities.
- The aim was:
 - Facilitate dietary diversification of complementary foods by bringing to household level a range of nutrient rich vegetables.
 - Solve the problem of land accessibility to women and poor availability and accessibility of nutrient rich vegetable at household level.
 - Provided to target beneficiaries nutrition BCC and cooking demonstration to facilitate adoption of optimal complementary feeding practices.



Methodology

- 120 intervention households and 120 control households in Sikasso région (M'pessoba, Sirakélé, Finkolo, and Chobougou) with a pair of mother and a child aged (4-8 months)
- In each intervention household:
 - 10 vegetable sack gardens established in each target household
 - BCC, cooking demonstration, household visits and support on vegetable production provided to intervention household
- In control households:
 - Only BCC on nutrition and WASH

Implementation activities

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Implementation and data collected activities

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Results

Mobile gardens

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Participants demographic data

1200 vegetable mobiles gardens established

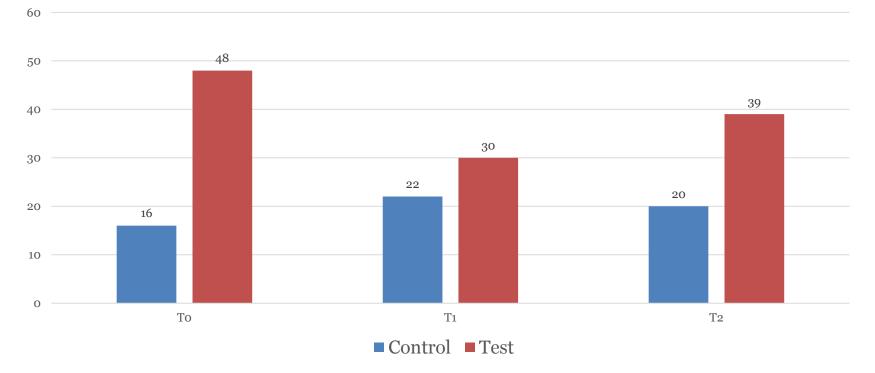




	Intervention	Control	
Mean age of mothers	28.18	27.36	
Mean age of children	6.83	6.05	
Sex of children			
Girl Boy	48 52	55 45	

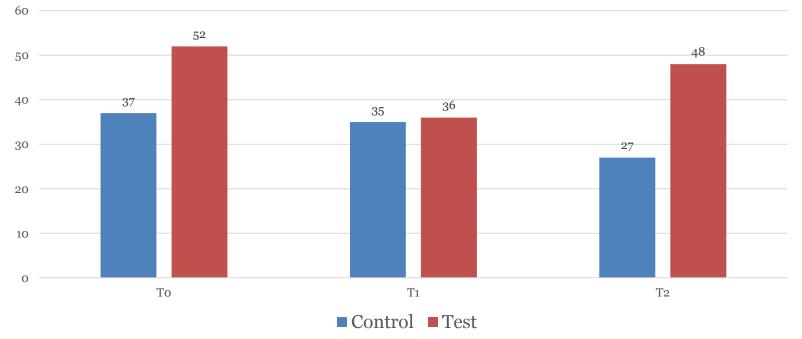


Prevalence of children with minimum required diversity score



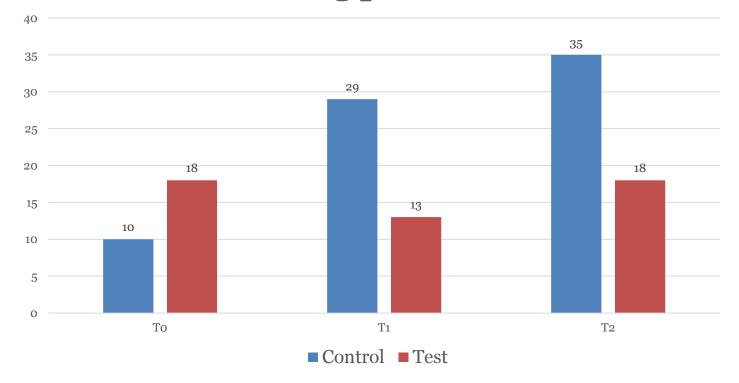


Prevalence of women with minimum required Dietary diversity Score





Stunting prevalence





Results: Double difference analysis

	Baseline		Endline			
	BCC+Mob		BCC+Mob			
	ile	Standard	ile			
	garden	BCC	garden(N	Standard		
	(N=103)	(N=102)	=111)	BCC (N=101)	DID (95%CI)	Р
	-		-			
WAZ score	1.06±1.36	-093±1.31	1,09±1.29	-1.32±1.46	0.56(0.06-1.06)	0.25
	-		-			
HAZ score	0.46±2.61	-0.58±2.01	0.66±1.69	-1.23±1.98	0.22(-0.14-0.60)	0.026
	-		-			
WHZ score	0.68±2.00	-0.57±2.18	0.91±1.23	-0.83±1.1.19	-0.07(-0.40-0.25)	0.66
DDS Mother	4.81±2.06	3.38±2.73	5.04±1.92	4.13±2.11	0.22(-0.19-0.64)	0.001
DDS Children	1.14±0.45	0.63±0.63	3.24±1.74	3.01±1.36	0.90(0.35-1.45)	0.29



- Preliminary analysis have shown that integrating agriculture and nutrition activities have the potential to impact mother dietary diversity and children growth
- More effort on Behavior change communication are need to strongly impact children dietary diversity
- The impact of project activities on child growth can be mediated trough improve child care, improved nutrition, hygiene and WASH practices







Thank You

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