

SUPPLEMENTARY MATERIAL

<https://doi.org/10.1080/16070658.2025.2477900>

South African Journal of Clinical Nutrition, 2025

Understanding the factors associated with child malnutrition in rural Burundi: experiences from the Muyinga and Ngozi Provinces

Willy Désiré Emera, Marijke D'Haese*, Wannes Slosse and Carl Lachat

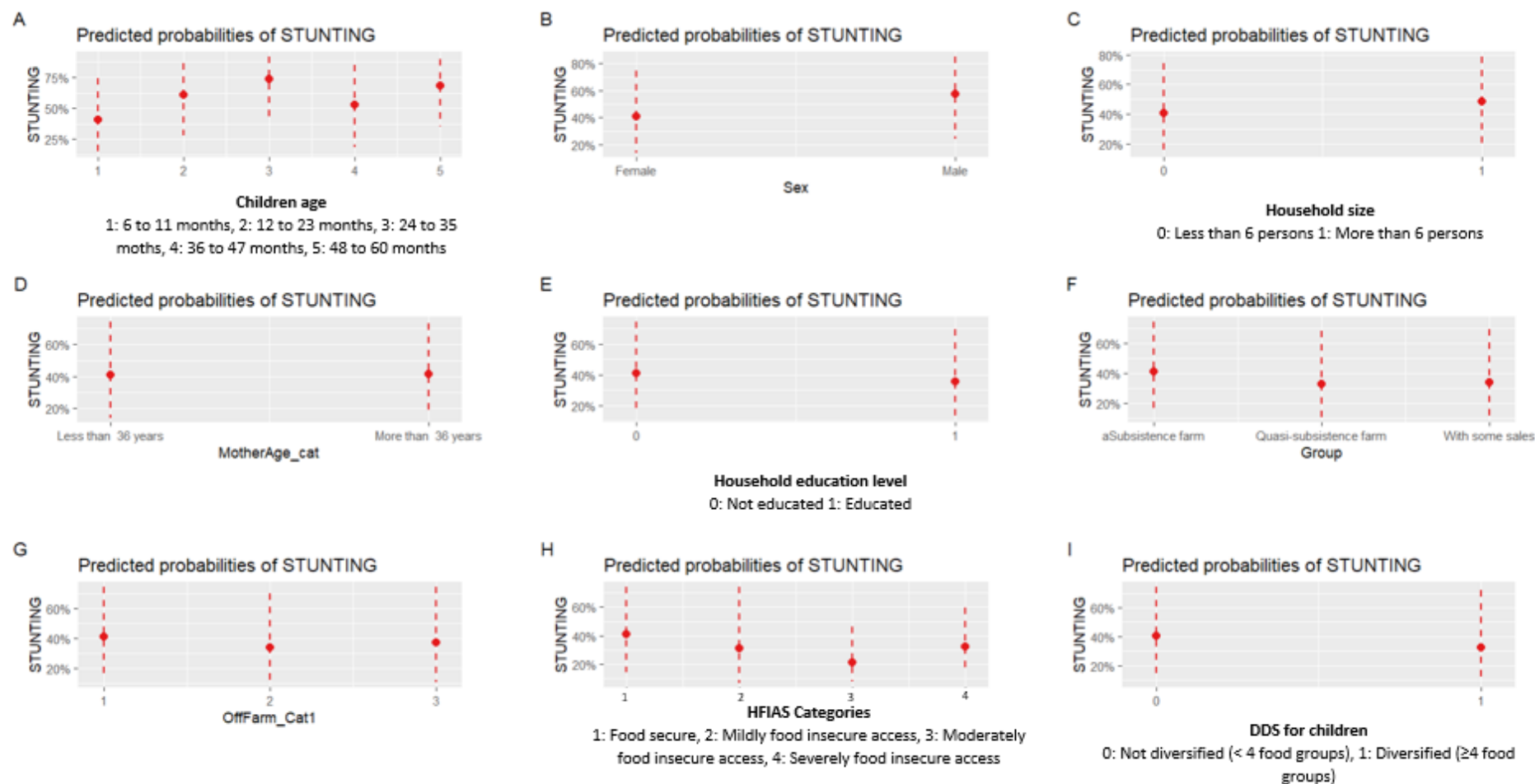


Figure S1. Socio-economic factors' relation to the children's probability of stunting

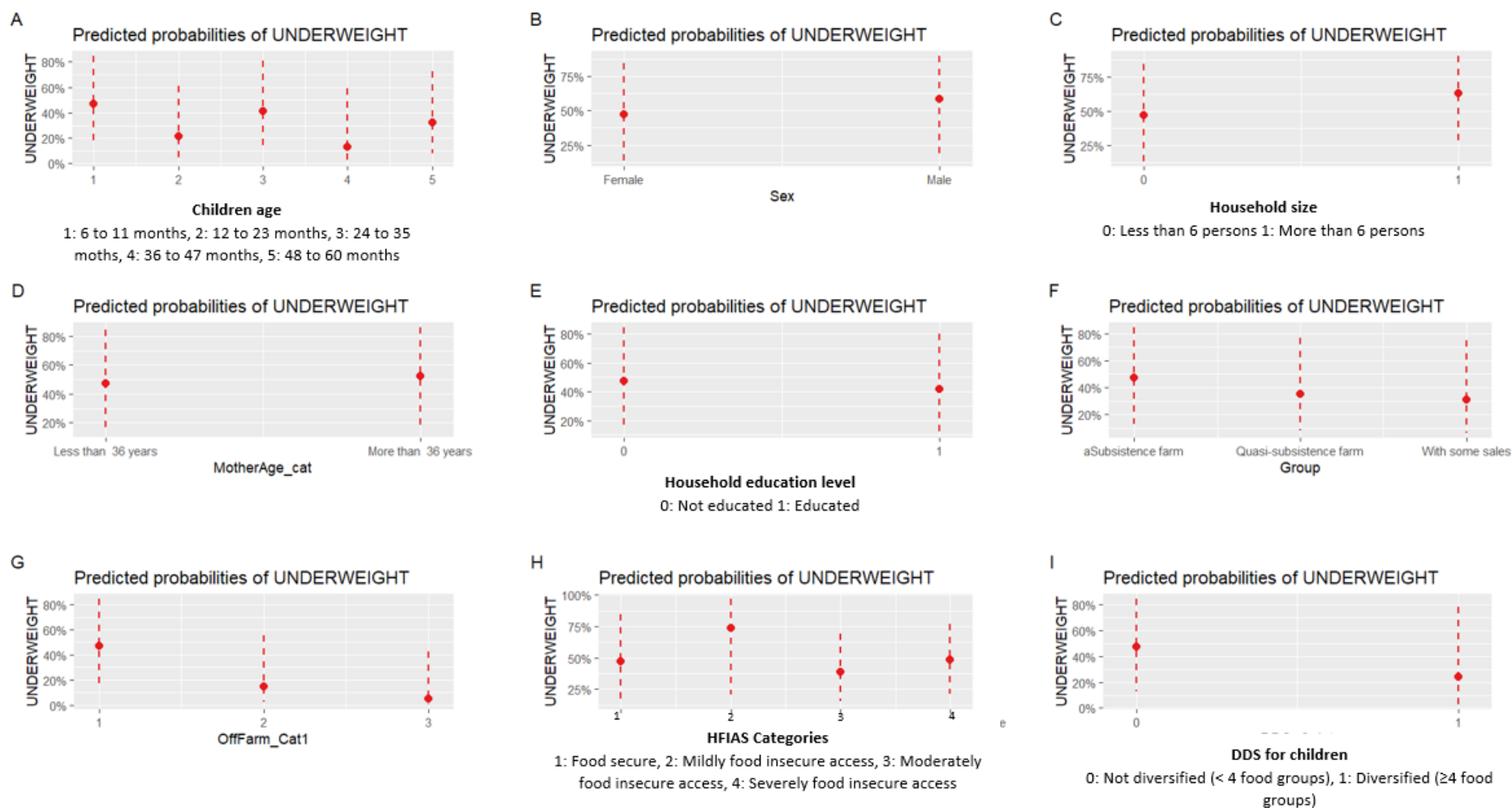


Figure S2. Socio-economic factors' relation to the children's nutritional status (Underweight_WAZ)

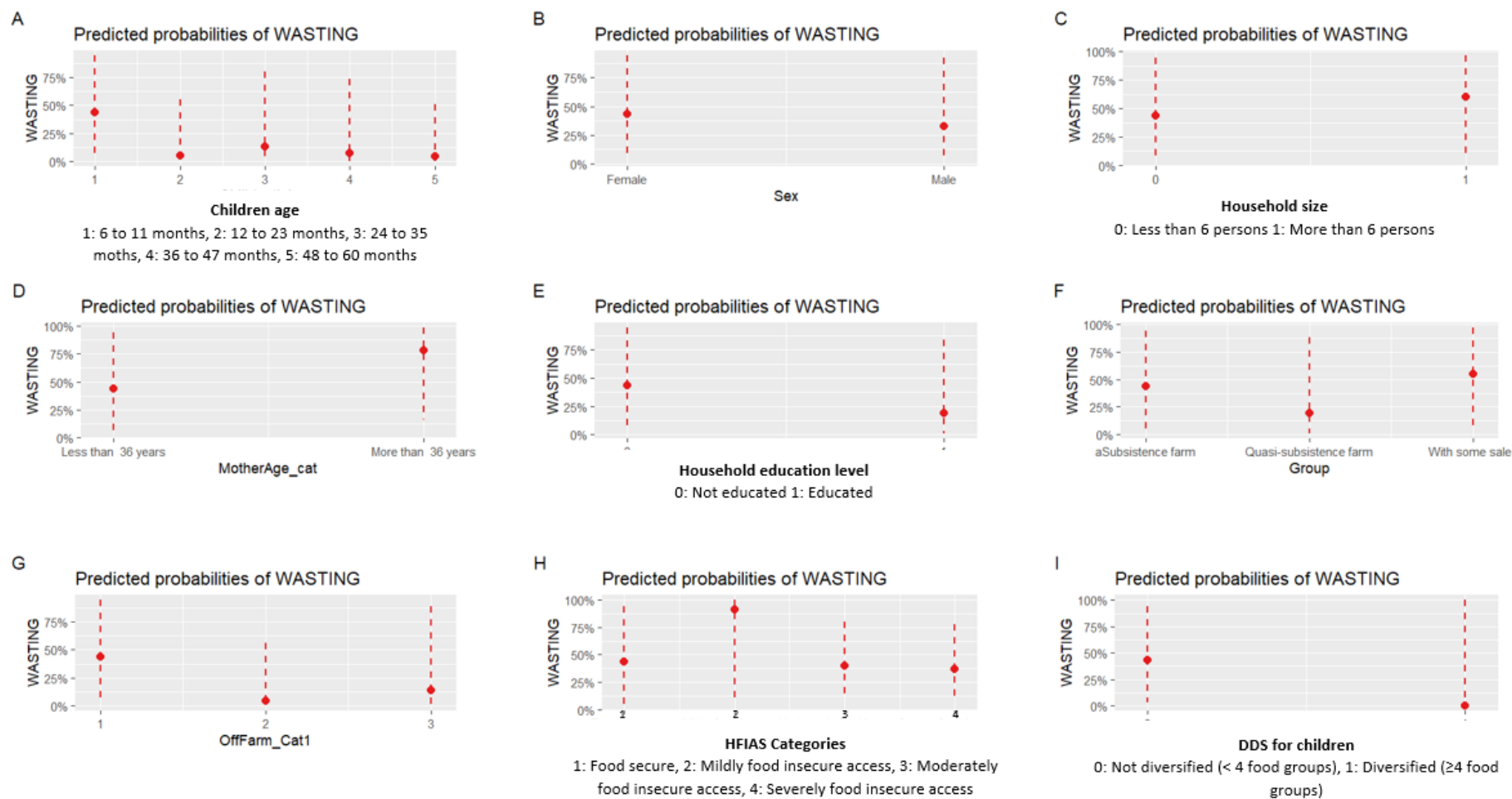


Figure S3. Socio-economic factors' relation to the children's probability of wasting (Wasting_WHZ)

Table S1. Model 1-Results of a logistic regression showing determinants of stunting, Underweight WAZ and underweight BAZ in children under five years of age

	Dependent variable:		
	Stunting (1)	Underweight (2)	Wasting (3)
Child age [12 to 23months]	0.805* (0.483)	-1.210** (0.546)	-2.613*** (0.892)
Child age [24 to 35months]	1.390*** (0.505)	-0.254 (0.542)	-1.610* (0.832)
Child age [36 to 47months]	0.496 (0.634)	-1.779** (0.879)	-2.297* (1.251)
Child age [48 to 60months]	1.145** (0.508)	-0.628 (0.552)	-2.839*** (0.981)
Child Gender [Male]	0.683** (0.304)	0.457 (0.361)	-0.460 (0.596)
Household Size [Household larger than 6 persons]	0.318 (0.340)	0.640 (0.396)	0.677 (0.690)
Mother's age [More than 36 years]	0.019 (0.333)	0.197 (0.385)	1.528** (0.704)
Household head education [not educated]	-0.218 (0.303)	-0.222 (0.358)	-1.183* (0.616)
Subsistence level [Sell 5% to 10%]	-0.340 (0.343)	-0.499 (0.404)	-1.176 (0.830)
Subsistence level [Sell more than 10%]	-0.304 (0.397)	-0.696 (0.463)	0.466 (0.672)
Off_farm_Income [Between 96-238.1 USD]	-0.294 (0.385)	-1.652*** (0.565)	-2.789** (1.300)
Off-farm Income [More than 238.1 USD]	-0.162 (0.561)	-2.875** (1.194)	-1.578 (1.933)
HFIAS Level [Mildly food insecure access]	-0.423 (0.832)	1.149 (1.128)	2.618 (1.979)
HFIAS Level [Moderately food insecure access]	-0.962* (0.544)	-0.338 (0.735)	-0.158 (1.385)
HFIAS Level [Severely food insecure access]	-0.367 (0.527)	0.050 (0.685)	-0.285 (1.321)
Dietary diversity [Not diversified]	-0.368 (0.489)	-1.023 (0.811)	-1.934 (1.832)
Constant	-0.373 (0.737)	-0.111 (0.919)	-0.261 (1.565)
Observations	210	215	210
Log Likelihood	-133.110	-102.211	-42.729
Akaike Inf. Crit.	300.220	238.421	119.457

Significant code: * $p < 0.10$; ** $p < 0.05$; *** $p < 0.01$

Table S2: *Model 2* -Results of a logistic regression showing determinants of stunting, Underweight WAZ and underweight BAZ in children under five years of age without HFIAS and dietary diversity

	Dependent variable:		
	STUNTING (1)	UNDERWEIGHT (2)	WASTING (3)
Child age [12 to 23months]	0.711 (0.473)	-1.251** (0.537)	-2.728*** (0.871)
Child age [24 to 35months]	1.375*** (0.498)	-0.299 (0.525)	-1.659** (0.782)
child age [36 to 47months]	0.541 (0.625)	-1.623* (0.872)	-2.120* (1.260)
child age [48 to 60months]	1.224** (0.499)	-0.525 (0.534)	-2.669*** (0.952)
child Gender [Male]	0.753** (0.297)	0.399 (0.354)	-0.567 (0.580)
Household size	0.377 (0.329)	0.725* (0.390)	0.769 (0.669)
Mother's age [More than 36 years]	0.074 (0.326)	0.155 (0.381)	1.472** (0.699)
Household head education [not educated]	-0.231 (0.298)	-0.215 (0.347)	-1.316** (0.609)
Subsistence level [Sell 5% to 10%]	-0.306 (0.334)	-0.526 (0.394)	-1.043 (0.774)
Subsistence level [Sell more than 10%]	-0.271 (0.388)	-0.661 (0.457)	0.463 (0.651)
Off_farm_Income Between 96-238.1 USD	-0.324 (0.365)	-1.444*** (0.502)	-2.621** (1.144)
Off-farm Income [More than 238.1 USD]	-0.149 (0.493)	-2.700** (1.063)	-0.790 (1.155)
Constant	-1.001* (0.555)	-0.267 (0.596)	-0.487 (0.868)
observations	212	217	212
Log Likelihood	-136.516	-105.128	-45.231
Akaike Inf. Crit.	299.033	236.256	116.461

Significant code: * $p < 0.10$; ** $p < 0.05$; *** $p < 0.01$