

Poverty and Malnutrition in Zimbabwe: Determinants of Poverty and Malnutrition

Technical Appendix

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January 2020

Determinants of poverty

Table 1 Determinants of poverty as identified during the literature review

References	Achia, Wangombe and Khadioli (2010)	Oyekale and Oyekale (2013)	Adeoti Adetola and Popoola Olufemi (2013)	Habyarimana, Zewotir and Ramroop (2015)	Datt and Jolliffe (1997)	Geda, de Jong, Kimenyi and Mwabu (2015)	Oluoko-Odingo (2009)	Brown, Ravallion and van de Walle (2018)	Amuedo-Dorantes (2004)	Mukherjee and Benson (2003)	Mok, Gan, Sanyal (2007)	Adeyemi, Ijaiya, Raheem (2009)
Countries	Kenya	Nigeria	Nigeria (rural)	Rwanda	Egypt	Kenya	Kenya-Nyando	9 Sub-Saharan Countries	Chile	Malawi	Malaysia	Sub-Saharan Africa (48 countries)
Community level characteristics												
Region	X	X	X	X	X	X			X		X	
Residence: urban/rural	X			X		X			X	X		
Index of social capital					X							
Index of economic capital					X							
Distance to railroads					X							
Irrigation supply					X							
Unemployment rate					X							
HH characteristics												
HH size			X	X	X			X	X	X		X
# aged below 15					X				X			
# aged above 60					X					X		
Average level of education					X							

References	Achia, Wangombe and Khadioli (2010)	Oyekale and Oyekale (2013)	Adeoti Adetola and Popoola Olufemi (2013)	Habyarimana, Zewotir and Ramroop (2015)	Datt and Jolliffe (1997)	Geda, de Jong, Kimenyi and Mwabu (2009)	Oluoko-Odingo (2009)	Brown, Ravallion and van de Walle (2018)	Amuedo-Dorantes (2004)	Mukherjee and Benson (2003)	Mok, Gan, Sanyal (2007)	Adeyemi, Ijaiya, Raheem (2009)
Owns cultivated land (and size owned)					X	X						
Value of livestock owned					X	X				X		
Drought							X					
Flood							X					
HH with HS diploma									X			
# of HH members working (formal sector)									X			
Max. level of education attained by anyone in HH (categorical)												
# of HH members working (informal sect.)									X			
Type of fuel used for cooking								X				
Type of toilet in HH								X				
Floor, wall, and roofing material								X				
Water source												X
HHH characteristics								X	X			
Education of the HHH	X			X		X		X				
Religion of the HHH	X							X				
Ethnicity/race of the HHH	X		X								X	
Occupation of the HHH			X		X	X		X	X	X		
Sex of the HHH			X	X	X	X		X	X			
Age of the HHH			X	X	X			X				
Other characteristics for specific studies												

References	Achia, Wangombe and Khadioli (2010)	Oyekale and Oyekale (2013)	Adeoti Adetola and Popoola Olufemi (2013)	Habyarimana, Zewotir and Ramroop (2015)	Datt and Jolliffe (1997)	Geda, de Jong, Kimenyi and Mwabu (2009)	Oluoko-Odingo (2009)	Brown, Ravallion and van de Walle (2018)	Amuedo-Dorantes (2004)	Mukherjee and Benson (2003)	Mok, Gan, Sanyal (2007)	Adeyemi, Ijaiya, Raheem (2009)
Mother's education			X								X	
Father's education			X								X	
Mother had children before age 16			X									
Children's age			X									
Months of breast-feeding												
Access to technology												
Children's gender												
Sanitation												X
Gender discrimination												X
Poverty-level in the region												X
Prevalence of HIV/AIDS												X
Economic activity (aggregate)												X

Determinants of child malnutrition

Table 2 Determinants of child malnutrition as identified during the literature review

References	Rahman, Chowdhury and Hossain (2009)	Rahman and Zeleke (2013)	Sudfeld et al (2015)	Tripp (1981)	Chirwa, Ngalawa (2008)	Correia et al (2013)	Rayhan and Khan (2006)	Jesmin, Yamamoto, Malik and Haque (2011)	Ayana, Hailemariam and Melke (2015)	Sultana and Kiani (2011)	Burroway (2017)
Country	Bangladesh	Ethiopia	Tanzania	Ghana	Malawi	Brazil	Bangladesh	Bangladesh	Ethiopia	Pakistan	49 countries
<i>Characteristics of the place of residence</i>											
Region	X								X		
Residence: urban/rural						X				X	x
Sanitation			X			X		X	X		X
Monthly income						X		X	X		
Index of social capital											
Index of economic capital											
Distance to railroads											
Irrigation supply											
Unemployment rate											
Access to technology		X									

References	Rahman, Chowdhury and Hossain (2009)	Rahman and Zeleke (2013)	Sudfeld et al (2015)	Tripp (1981)	Chirwa, Ngalawa (2008)	Correia et al (2013)	Rayhan and Khan (2006)	Jesmin, Yamamoto, Malik and Haque (2011)	Ayana, Hailemariam and Melke (2015)	Sultana and Kiani (2011)	Burroway (2017)
Exposure to mass media	X	X									
<i>Characteristics of the HH</i>											
HH size										X	X
Education of the HHH	X				X			X	X		
Religion of the HHH								X			
Ethnicity of the HHH								X			
Occupation of the HHH	X	X									
Sex of the HHH	X	X		X	X						X
Age of the HHH	X	X									
Economically empowered mother/woman as HHH (incl. education/employment status)					X						
Wealth	X	X		X	X			X			
Toilet availability						X					
Distance to water supply								X			
Ownership of livestock and farmland								X			
Water from a well (protected or not)					X						
Dependency ratio										X	
<i>Characteristics of the parents</i>											
Mother's age								X			

References	Rahman, Chowdhury and Hossain (2009)	Rahman and Zeleke (2013)	Sudfeld et al (2015)	Tripp (1981)	Chirwa, Ngalawa (2008)	Correia et al (2013)	Rayhan and Khan (2006)	Jesmin, Yamamoto, Malik and Haque (2011)	Ayana, Hailemariam and Melke (2015)	Sultana and Kiani (2011)	Burroway (2017)
Mother's hand washing								X			
Mother's education	X	X				X	X		X		X
Working mother in HH				X							
Father's education	X	X					X	X			
Mother had children before age 16								X	X		
Mother's Body Mass Index (BMI)	X	X					X				
Mother's occupation											X
Occupation skilled or unskilled	X										
Maternal stature (i.e., height)			X								
Family monthly income						X		X			
Number of children under age five									X		
Mother's literacy						X					
Birth interval							X				
Nutritional knowledge of the mother								X			
Amount of time father spends on childcare								X			
Health care seeking									X		
Characteristics of the child											
Children's age	X	X			X	X					X
Months of breast-feeding	X	X									
Water source					X						

References	Rahman, Chowdhury and Hossain (2009)	Rahman and Zeleke (2013)	Sudfeld et al (2015)	Tripp (1981)	Chirwa, Ngalawa (2008)	Correia et al (2013)	Rayhan and Khan (2006)	Jesmin, Yamamoto, Malik and Haque (2011)	Ayana, Hailemariam and Melke (2015)	Sultana and Kiani (2011)	Burroway (2017)
Child's gender					X	X					X
Morbidity status (i.e. prior illnesses)									X		
Weight-for-height measurements	X							X	X		X
Birth size	X						X	X			
Anthropometric measurements	X										
Respiratory illness	X										
Measles vaccination	X										
BCG vaccination (for tuberculosis)						X					
Pneumonia hospitalization						X					
Diarrhea hospitalization						X					
Frequency of complementary feeding of the child (relative to breast-feeding)								X	X		
Immunization status									X		
Hygiene									X		
Interventions to reduce "small for gestational age" (SGA)			X								
Dietary intake	X										

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