

Additional file 2: Ethics approvals

HDSS site	Institutional Review Boards	Date	Number/Ref
Bandim	Comité Nacional de Ética na Saúde	12 June 2017	072/CNES/INASA/2017
Dabat	Institutional Review Board, University of Gondar	19 April 2017	VP/RCS/05/1074/2016
IgangaMayuge	Mildmay Uganda Research Ethics Committee	26 June 2017	REC REF 0305-2017
	Uganda National Council of Science and Technology	11 October 2017	SS 4244
Kintampo	Kintampo Health Research Centre, Ghana Health service Scientific Review Committee (SRC)	14 June 2017	SRC/130617
		26 July 2017	GHS-ERC:19/06/14
	Ghana Health Services Ethics Review Committee	9 August 2017	KHRCIEC/2017-14
	Kintampo Health Research Centre Institutional Ethics Committee		
Matlab	Icddr,b Ethical Review Committee	19 July 2017	PR-17049
London School of Hygiene & Tropical Medicine	London School of Hygiene & Tropical Medicine	24 May 2017	12218