Additional file 1: Text S1. Full list of variables examined as risk factors for Giardia

duodenalis infection Unless otherwise specified, variables are binary

Demographic variables

- Age group (categorical: 1-5 years; 6-11 years; 12-17 years; 18-64 years; 65+ years)
- Sex
- Study follow-up number (*categorical: baseline;* follow-up 1; follow-up 2; follow-up 3; follow-up 4)

Individual hygiene variables

- Washes hands using soap or ash
- Washes hands before contact with food
- Washes hands after contact with faeces
- Washes hands after contact with dirt
- Always wears shoes indoors
- Always wears shoes outdoors and while toileting

Individual sanitation variables

- Main place of defecation is toilet
- Practises open defecation
- Uses water to clean self after defecation

School sanitation variables (if aged 6-17 years)

Uses toilet at school

Individual socioeconomic variables (if aged 18+ years)

- Education level (categorical: never went to school; not finished primary; finished primary but not secondary; finished secondary or higher)
- Employment (categorical: no employment outside the home; employed as farmer; employed as other)

Household sanitation variables

- Household has toilet
- Household toilet has slab
- Household toilet is pour-flush latrine
- Household toilet observed to be clean
- Water available to clean self after defecating
- Household toilet is shared with another household
- Child waste disposed of hygienically
- Household garbage disposed of in bush
- Household garbage disposed of by digging/burying
- Household garbage disposed of by burning

Household water variables

- Household main water source (categorical: piped water; protected spring; unprotected spring/dugwell; tubewell/borehole; surface water)
- Distance to water source is more than 15 minutes
- Water always available from main water source
- All household water stored in covered containers
- Household water treated before drinking

Household hygiene variables

- Household has a food garden
- Household main food preparer washes hands before preparing food
- Number of dogs owned (categorical: none; 1 or 2; 3 or more)
- Number of pigs owned (categorical: none; 1 or 2; 3 or more)
- Number of chickens owned (categorical: none; 1 to 5; 6 or more)
- Households owns cow(s)
- Household owns horse(s)

Household socioeconomic variables

- At least one child under 5 years of age in household
- More than 6 people living in dwelling
- Socioeconomic quintile (*categorical: quintile 1* poorest; quintile 2; quintile 3; quintile 4; quintile 5 richest)

Environmental variables

• Season (wet/dry)

Infection-related variables

- Ascaris spp. infection
- N. americanus infection
- Ancylostoma spp. infection
- Trichuris spp. infection