

Supplemental Table 1. Overview of STRATAA Study Procedures.

Study component	CENSUS							HEALTHCARE UTILISATION		PASSIVE SURVEILLANCE								SEROSURVEY				
								Peak seasons during census	All cases				Household contacts of index cases				Participants		Household contacts of possible carriers			
									Cases within census area*													
Sample size (individuals unless specified)	≥100 000 per site							>700 households	Convenience				≥73 households				8500	6800	Members of ≥50 households			
Time (months, unless specified)	0	4	8	12	16	20	24	1st	2nd	0	Day 8	1	~6	12	0	1	~3	~12	0	**	3	6
Consent	X							X		X					X		X ^{\$\$}		X			x
Demographic Information	X	X [#]	X [#]	X [#]	X [#]	X [#]	X															
Clinical information										X	X	X	X	X	X							
Questionnaire								X	X													
Blood sample										X [@]			X		X		X ^{\$}		X [@]		X	X
Stool sample										X		X	X	(X)	X	X	2X [€]	(3X)		2X [€]		X
Urine sample										X [@]									X [@]			

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* Case within census area = index if blood-culture confirmed typhoid diagnosis, resident in census area and household members consent to participation.

Births, deaths and migrations updated every 4 months in Nepal & Bangladesh

~ approximately - dependent on timeframe of availability for the Vi ELISA result

\$ Host genetics collected/used for laboratory studies if either stool or serum positive or both

§ separate consent for host genetics

@ additional blood (RNA + plasma) and urine samples (subset of 100 with typhoid (culture positive), 100 with clinically suspected typhoid (culture negative), 100 with alternate bacteraemia; and 100 healthy controls (from the serosurvey) from adults 16-40yrs who give consent for genetic assays to be performed.

€ Participants identified as having high anti-Vi IgG only - 2 stool samples collected 48 hours apart once ELISA result known to identify/confirm carriage

** When result known

Total blood volumes: **Passive survey** ≤16 mL adults (>16 years), ≤7 mL children (<16 years); **Serosurvey** ≤8 mL adults (>16 years), ≤7 mL children. Cell pellets stored for host genetics.