

Table S9. Hospital surface swabs (HSS) collection dates classified into seven time bands, to study the antimicrobial resistance genes (ARGs) prevalence during the study timeline (November 2015 – January 2018).

a) Dry and wet seasons per country (some of them showing information on temperatures) based on the Climate change knowledge portal (World Bank Group). Differences between certain parts of a country exist, thus, the seasons are described for most part of a country. Moreover, dry and wet seasons occur during opposite months, or more than one dry/wet season exist for some countries, and the duration of a season is different in each country. This table was only taken into consideration to establish seven time bands according to the months included per season, but no seasonal analysis per country was performed because of all the mentioned differences between countries. b) Timeline classification into seven time bands and number of HSS collected per country during the study timeline. Information regarding collection dates was available for a total of 4,662 HSS, which were considered for the analysis of ARG prevalence during timeline.

a)

Country	Dry season	Wet season
Bangladesh	December-February (cold temperatures)	April-September or October (warm temperatures)
Ethiopia	October-December (cold temperatures)	June-September / February-May: less rainfall
Nigeria	November-March (March is the hottest month)	April-October / March-October / March-November (August is the coldest month and June is the wettest)
Pakistan	December-May (cold and hot temperatures)	June-November
Rwanda	June-august / December- February	March-May / September-November
South Africa (majority of the country but differences for Cape Town)	June-August	December-February / November- March: highest rainfall (warm temperatures) Cape Town: May-August rainy season (winter)

b)

Time band	Number of HSS included per month	Number of HSS included per banding	Number of HSS in Bangladesh	Number of HSS in Ethiopia	Number of HSS in Nigeria	Number of HSS in Pakistan	Number of HSS in Rwanda	Number of HSS in South Africa
November 2015	37	309	2	0	35	0	0	0
December 2015	72		27	0	45	0	0	0
January 2016	109		32	0	45	10	22	0
February 2016	91		26	0	45	20	0	0
March 2016	115	693	37	0	45	33	0	0
April 2016	146		29	0	55	40	22	0
May 2016	232		32	0	70	59	46	25
June 2016	200		15	0	45	64	23	53
July 2016	276	819	47	0	45	60	46	77
August 2016	198		64	0	61	55	0	20
September 2016	171		41	0	44	59	23	3
October 2016	174		39	0	20	55	23	36
November 2016	191	1014	50	0	35	56	45	5
December 2016	226		34	0	29	46	66	51
January 2017	254		30	0	21	55	23	125
February 2017	343		42	0	25	40	23	213
March 2017	186	688	32	0	25	61	68	0
April 2017	142		45	0	55	20	22	0
May 2017	156		62	0	43	5	46	0
June 2017	204		64	0	57	15	68	0
July 2017	300	892	47	0	186	0	68	0
August 2017	143		31	42	35	13	22	0
September 2017	229		48	35	72	5	69	0
October 2017	220		60	55	34	15	56	0
November 2017	169	247	41	45	25	5	53	0
December 2017	68		2	61	0	5	0	0
January 2018	10		0	10	0	0	0	0
TOTAL		4,662	979	248	1197	796	834	608

4,662