

Supplemental File 5. Sample size and individual-level exclusions among children 6-59 months of age by cause and survey, grouped by country and region, 2013-2016

	Survey Year	Total number of children 6-59 months of age surveyed	Number of children with available and biologically plausible ^a Hb values	Number of children excluded due to missing Hb values	Number of children excluded due to biologically implausible ^a Hb values	Percent of children with available and biologically plausible ^a Hb values	Percent of children excluded due to missing Hb values	Percent of children excluded due to biologically implausible ^a Hb values
Eastern and Southern Africa								
Burundi								
Bwagiriza	2013	357	357	0	0	100	0	0
Gasorwe	2013	198	198	0	0	100	0	0
Kavumu	2013	288	288	0	0	100	0	0
Musasa	2013	226	226	0	0	100	0	0
Eritrea								
Umkulu	2015	326	326	0	0	100	0	0
Kenya								
Dagahaley	2013	526	525	1	0	99.8	0.2	0
Dagahaley	2014	631	631	0	0	100	0	0
Dagahaley	2015	627	581	46	0	92.7	7.3	0
Hagadera	2013	603	603	0	0	100	0	0
Hagadera	2014	621	620	1	0	99.8	0.2	0
Hagadera	2015	746	684	62	0	91.7	8.3	0
Ifo	2013	437	436	1	0	99.8	0.2	0
Ifo	2014	650	649	1	0	99.8	0.2	0
Ifo	2015	727	625	102	0	86	14	0
Ifo 2	2013	578	578	0	0	100	0	0
Ifo 2	2014	632	632	0	0	100	0	0
Ifo 2	2015	713	631	82	0	88.5	11.5	0
Kakuma	2013	504	503	1	0	99.8	0.2	0
Kakuma	2015	624	624	0	0	100	0	0
Kambioos	2013	596	596	0	0	100	0	0

Kambioos	2014	683	682	1	0	99.9	0.1	0
Kambioos	2015	579	497	82	0	85.8	14.2	0
Rwanda								
Gihembe	2015	208	208	0	0	100	0	0
Gihembe	2016	315	315	0	0	100	0	0
Kigeme	2015	253	253	0	0	100	0	0
Kigeme	2016	369	369	0	0	100	0	0
Kiziba	2015	330	330	0	0	100	0	0
Kiziba	2016	261	261	0	0	100	0	0
Mahama	2015	291	290	1	0	99.7	0.3	0
Mahama	2015	799	799	0	0	100	0	0
Mahama	2016	578	578	0	0	100	0	0
Mugombwa	2015	310	310	0	0	100	0	0
Mugombwa	2016	326	326	0	0	100	0	0
Nyabiheke	2016	402	402	0	0	100	0	0
South Sudan								
Ajuong Thok	2014	655	568	87	0	86.7	13.3	0
Batil	2013	1120	635	477*	8	56.7	42.6*	0.7
Batil	2014	873	477	391*	5	54.6	44.8*	0.6
Doro	2013	875	491	374*	10	56.1	42.7*	1.1
Doro	2014	946	509	437*	0	53.8	46.2*	0
Gendrassa	2013	830	461	358*	11	55.5	43.1*	1.3
Gendrassa	2014	875	453	419*	3	51.8	47.9*	0.3
Jamam	2013	879	486	393*	0	55.3	44.7*	0
Kaya	2014	946	512	433*	1	54.1	45.8*	0.1
Yida	2014	776	481	294*	1	62	37.9*	0.1
Tanzania								
Mtendeli	2016	580	579	1	0	99.8	0.2	0
Nduta	2016	422	422	0	0	100	0	0
Nyarugusu	2014	422	418	4	0	99.1	0.9	0
Nyarugusu - New Refugees	2016	521	521	0	0	100	0	0

Nyarugusu - Old Refugees	2016	542	541	0	1	99.8	0	0.2
Uganda								
Adjumani	2014	606	300	302*	4	49.5	49.8*	0.7
Kiryandongo	2014	376	279	96*	1	74.2	25.5*	0.3
Koboko	2014	308	306	2	0	99.4	0.6	0
Kyaka II	2014	425	331	94*	0	77.9	22.1*	0
Kyangwali	2014	417	197	220*	0	47.2	52.8*	0
Kyangwali	2015	696	341	355*	0	49	51.0*	0
Lobule	2015	228	183	45	0	80.3	19.7	0
Nakivale	2014	781	566	215*	0	72.5	27.5*	0
Oruchinga	2014	337	259	75*	3	76.9	22.3*	0.9
Oruchinga	2015	644	237	407*	0	36.8	63.2*	0
Rhino	2014	271	108	163*	0	39.9	60.1*	0
Rhino	2015	567	435	132*	0	76.7	23.3*	0
Rwamwanja	2014	469	242	227*	0	51.6	48.4*	0
Zambia								
Mayukwayukwa	2013	298	191	107*	0	64.1	35.9*	0
Meheba	2013	298	187	110*	1	62.8	36.9*	0.3
Ethiopia								
Adi-Harush	2013	387	385	2	0	99.5	0.5	0
Adi-Harush	2015	447	444	3	0	99.3	0.7	0
Aw-barre	2014	285	284	1	0	99.6	0.4	0
Aw-barre	2015	305	303	2	0	99.3	0.7	0
Aysaita	2013	541	538	3	0	99.4	0.6	0
Aysaita	2014	497	491	6	0	98.8	1.2	0
Bambasi	2013	401	396	5	0	98.8	1.2	0
Berhale	2013	497	446	51	0	89.7	10.3	0
Berhale	2014	544	534	9	1	98.2	1.7	0.2
Bokolmanyu	2013	411	409	2	0	99.5	0.5	0
Bokolmanyu	2014	377	375	2	0	99.5	0.5	0
Bokolmanyu	2015	484	482	2	0	99.6	0.4	0

Bokolmanyo	2016	461	460	1	0	99.8	0.2	0
Buramino	2013	474	471	3	0	99.4	0.6	0
Buramino	2014	550	549	1	0	99.8	0.2	0
Buramino	2015	375	366	9	0	97.6	2.4	0
Buramino	2016	402	401	1	0	99.8	0.2	0
Hilaweyn	2013	386	372	14	0	96.4	3.6	0
Hilaweyn	2014	370	357	13	0	96.5	3.5	0
Hilaweyn	2015	391	379	12	0	96.9	3.1	0
Hilaweyn	2016	359	357	2	0	99.4	0.6	0
Kebri Beyah	2014	359	359	0	0	100	0	0
Kebri Beyah	2015	415	412	2	1	99.3	0.5	0.2
Kobe	2013	327	325	2	0	99.4	0.6	0
Kobe	2014	429	423	6	0	98.6	1.4	0
Kobe	2015	425	419	6	0	98.6	1.4	0
Kobe	2016	430	430	0	0	100	0	0
Kule	2014	415	413	2	0	99.5	0.5	0
Kule	2015	395	395	0	0	100	0	0
Kule	2016	580	578	2	0	99.7	0.3	0
Leitchour	2014	361	361	0	0	100	0	0
Mai-Aini	2013	319	319	0	0	100	0	0
Mai-Aini	2015	361	360	1	0	99.7	0.3	0
Melkadida	2013	378	377	1	0	99.7	0.3	0
Melkadida	2014	396	396	0	0	100	0	0
Melkadida	2015	564	562	2	0	99.6	0.4	0
Melkadida	2016	407	406	1	0	99.8	0.2	0
Okugo	2015	240	240	0	0	100	0	0
Pugnido	2013	430	430	0	0	100	0	0
Pugnido	2015	336	332	4	0	98.8	1.2	0
Pugnido	2016	433	431	2	0	99.5	0.5	0
Pugnido II	2016	516	510	6	0	98.8	1.2	0
Sheder	2014	305	304	1	0	99.7	0.3	0

Sheder	2015	302	302	0	0	100	0	0
Sherkole	2013	365	360	5	0	98.6	1.4	0
Shimelba	2013	609	602	7	0	98.9	1.1	0
Shimelba	2015	483	482	1	0	99.8	0.2	0
Tierkidi	2014	369	368	1	0	99.7	0.3	0
Tierkidi	2015	353	350	3	0	99.2	0.8	0
Tierkidi	2016	317	316	0	1	99.7	0	0.3
West and Central Africa								
Burkina Faso								
Goudebo	2013	285	154	131*	0	54	46.0*	0
Goudebo	2014	309	160	149*	0	51.8	48.2*	0
Mentao	2013	268	187	81*	0	69.8	30.2*	0
Mentao	2014	241	108	133*	0	44.8	55.2*	0
Mentao	2015	204	91	113*	0	44.6	55.4*	0
Cameroon								
Adamaoua Region - Out of Camp - New Refugees	2016	568	568	0	0	100	0	0
Adamaoua Region - Out of Camp - Old Refugees	2016	505	504	1	0	99.8	0.2	0
East Region - Out of Camp - New Refugees	2016	512	511	1	0	99.8	0.2	0
East Region - Out of Camp - Old Refugees	2016	499	498	1	0	99.8	0.2	0
Kette	2015	291	291	0	0	100	0	0
Lolo	2015	392	387	5	0	98.7	1.3	0
Mbile	2015	395	393	2	0	99.5	0.5	0
Ngam	2015	387	379	8	0	97.9	2.1	0
North Region - Out of Camp	2016	539	538	1	0	99.8	0.2	0
Timangolo	2015	545	536	9	0	98.3	1.7	0
The Democratic Republic of Congo								
Inke	2014	549	347	202*	0	63.2	36.8*	0

Mole	2014	659	364	295*	0	55.2	44.8*	0
Liberia								
Bahn	2013	325	325	0	0	100	0	0
Bahn	2015	261	261	0	0	100	0	0
Little Wlebo	2013	340	339	1	0	99.7	0.3	0
Little Wlebo	2015	252	251	0	1	99.6	0	0.4
PTP	2013	442	442	0	0	100	0	0
PTP	2015	358	358	0	0	100	0	0
Mauritania								
Mbera	2013	595	594	1	0	99.8	0.2	0
Mbera	2014	516	514	1	1	99.6	0.2	0.2
Mbera	2016	451	438	6	7	97.1	1.3	1.6
Niger								
Abala	2016	851	836	15	0	98.2	1.8	0
Diffa	2016	730	727	3	0	99.6	0.4	0
Chad								
Abgadam	2013	521	515	6	0	98.8	1.2	0
Amboko	2014	502	502	0	0	100	0	0
Amnaback	2013	487	469	18	0	96.3	3.7	0
Amnaback	2015	403	402	1	0	99.8	0.2	0
Belom	2014	473	473	0	0	100	0	0
Breidjing	2013	532	523	9	0	98.3	1.7	0
Breidjing	2015	605	602	3	0	99.5	0.5	0
Breidjing	2016	506	506	0	0	100	0	0
Djabal	2013	575	565	10	0	98.3	1.7	0
Djabal	2014	557	557	0	0	100	0	0
Djabal	2016	465	465	0	0	100	0	0
Dosseye	2014	418	415	0	3	99.3	0	0.7
Farchana	2015	658	657	0	1	99.8	0	0.2
Farchana	2016	524	524	0	0	100	0	0
Gaga	2013	497	478	19	0	96.2	3.8	0

Gaga	2015	548	547	1	0	99.8	0.2	0
Gaga	2016	549	548	1	0	99.8	0.2	0
Gondje	2014	518	518	0	0	100	0	0
Goz Amer	2013	556	549	7	0	98.7	1.3	0
Iridimi	2013	542	512	30	0	94.5	5.5	0
Iridimi	2015	487	482	5	0	99	1	0
Koukou	2014	560	560	0	0	100	0	0
Koukou	2016	466	466	0	0	100	0	0
Kounoungou	2013	610	582	28	0	95.4	4.6	0
Kounoungou	2015	434	434	0	0	100	0	0
Kounoungou	2016	474	474	0	0	100	0	0
Mile	2013	532	503	29	0	94.5	5.5	0
Mile	2016	437	437	0	0	100	0	0
Moyo	2014	525	525	0	0	100	0	0
Oure Cassoni	2013	546	524	22	0	96	4	0
Oure Cassoni	2014	320	320	0	0	100	0	0
Oure Cassoni	2015	459	459	0	0	100	0	0
Touloum	2013	535	526	9	0	98.3	1.7	0
Touloum	2014	291	290	1	0	99.7	0.3	0
Touloum	2015	532	531	1	0	99.8	0.2	0
Treguine	2013	478	472	5	1	98.7	1	0.2
Treguine	2015	609	609	0	0	100	0	0
Treguine	2016	484	484	0	0	100	0	0
Middle East and North Africa								
Djibouti								
Ali Addeh	2014	316	314	1	1	99.4	0.3	0.3
Ali Addeh	2015	450	449	1	0	99.8	0.2	0
Hol-Hol	2014	244	243	1	0	99.6	0.4	0
Hol-Hol	2015	226	226	0	0	100	0	0
Jordan								
National - Out of Camp	2014	483	476	7	0	98.6	1.4	0

Zaatari	2014	327	318	9	0	97.2	2.8	0
Sudan								
Abuda, Um Gargour, Fau V	2015	409	279	129*	1	68.2	31.5*	0.2
Girba, Kilo 26, Wad Sherife	2015	359	156	203*	0	43.5	56.5*	0
Shagarab	2015	663	327	336*	0	49.3	50.7*	0
Yemen								
Kharaz	2014	294	291	3	0	99	1	0
Sana'a – Host Population	2013	395	204	191*	0	51.6	48.4*	0
Sana'a – Refugees	2013	538	417	121*	0	77.5	22.5*	0
South Asia								
Bangladesh								
Kutupalong	2013	286	283	2	1	99	0.7	0.3
Nayapara	2013	464	462	2	0	99.6	0.4	0
Nepal								
Beladangi and Sanischare	2013	448	448	0	0	100	0	0
Beladangi and Sanischare	2014	314	314	0	0	100	0	0

Abbreviations: Hb, hemoglobin

*Biologically plausible Hb values defined as $4 \text{ g/dL} \leq \text{Hb} \leq 18 \text{ g/dL}$

* By design, survey measured or likely measured hemoglobin in all age-eligible children in half of all households sampled.