

Web table 1: Prevalence of asthma indicators among adolescents in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Wheeze in the past 12 months		Asthma ever		Severe asthma symptoms in the past 12 months			Exercise wheeze in the past 12 months		Night cough in the past 12 months	
				N	%	N	%	N	%	% of wheeze	N	%	N	%
Africa and Eastern Mediterranean														
Cameroon	Yaounde	feb-19	1066	169	15.9%	56	5.3%	85	8.0%	50.3%	268	25.1%	413	38.7%
Iran	Karaj	feb-20	754	93	12.3%	55	7.3%	26	3.4%	28.0%	217	28.8%	294	39.0%
Iran	Yazd	may-20	5141	461	9.0%	291	5.7%	102	2.0%	22.1%	816	15.9%	635	12.4%
Nigeria	Ibadan	may-18	2897	307	10.6%	108	3.7%	179	6.2%	58.3%	927	32.0%	683	23.6%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	4086	543	13.3%	643	15.7%	227	5.6%	41.8%	781	19.1%	1051	25.7%
South Africa	Cape Town	aug-17	3979	847	21.3%	660	16.6%	476	12.0%	56.2%	1431	36.0%	1648	41.4%
South Africa	Durban	feb-20	1960	341	17.4%	320	16.3%	195	9.9%	57.2%	748	38.2%	748	38.2%
Sudan	Gadarif	feb-17	1344	99	7.4%	195	14.5%	64	4.8%	64.6%	233	17.3%	395	29.4%
Sudan	Khartoum	mar-17	1785	101	5.7%	324	18.2%	62	3.5%	61.4%	501	28.1%	722	40.4%
Syrian Arab Republic	Damascus	oct-18	1100	218	19.8%	146	13.3%	148	13.5%	67.9%	245	22.3%	366	33.3%
Syrian Arab Republic	Lattakia	apr-19	1215	241	19.8%	133	10.9%	129	10.6%	53.5%	435	35.8%	661	54.4%
Regional total			25327	3420	13.5%	2931	11.6%	1693	6.7%	49.5%	6602	26.1%	7616	30.1%
America														
Argentina	San Francisco	nov-19	1012	217	21.4%	159	15.7%	135	13.3%	62.2%	349	34.5%	416	41.1%
Brazil	Uruguaiana	jan-18	1058	164	15.5%	192	18.1%	76	7.2%	46.3%	425	40.2%	383	36.2%
Chile	South Santiago	mar-15	2750	369	13.4%	377	13.7%	107	3.9%	29.0%	459	16.7%	905	32.9%
Costa Rica	Costa Rica	feb-18	1338	278	20.8%	295	22.0%	126	9.4%	45.3%	193	14.4%	417	31.2%
Ecuador	Quito	apr-19	3000	189	6.3%	136	4.5%	90	3.0%	47.6%	545	18.2%	839	28.0%
Honduras	Tegucigalpa	jun-18	1431	271	18.9%	222	15.5%	211	14.7%	77.9%	280	19.6%	307	21.5%
México	Aguascalientes	dec-15	3336	376	11.3%	313	9.4%	214	6.4%	56.9%	573	17.2%	788	23.6%
México	Chihuahua	mar-16	2180	277	12.7%	275	12.6%	129	5.9%	46.6%	479	22.0%	517	23.7%
México	Ciudad Juárez	may-16	2443	290	11.9%	186	7.6%	170	7.0%	58.6%	465	19.0%	708	29.0%
México	Ciudad Victoria	dec-15	2468	329	13.3%	212	8.6%	142	5.8%	43.2%	410	16.6%	637	25.8%
México	Córdoba	jul-16	2991	446	14.9%	361	12.1%	213	7.1%	47.8%	593	19.8%	782	26.1%
México	Matamoros	may-16	2892	331	11.4%	267	9.2%	170	5.9%	51.4%	398	13.8%	870	30.1%
México	Mexicali	apr-16	2479	364	14.7%	215	8.7%	187	7.5%	51.4%	528	21.3%	637	25.7%
México	México City (North Area)	sep-15	3375	300	8.9%	250	7.4%	124	3.7%	41.3%	523	15.5%	498	14.8%
México	Michoacán	sep-16	2504	255	10.2%	150	6.0%	144	5.8%	56.5%	408	16.3%	516	20.6%
México	Monterrey	dec-17	2641	330	12.5%	298	11.3%	144	5.5%	43.6%	609	23.1%	824	31.2%
México	Oaxaca	may-17	2569	278	10.8%	194	7.6%	124	4.8%	44.6%	451	17.6%	509	19.8%
México	Puerto Vallarta	jun-16	2439	312	12.8%	230	9.4%	188	7.7%	60.3%	363	14.9%	718	29.4%
México	San Luis Potosí	jun-16	2580	295	11.4%	262	10.2%	140	5.4%	47.5%	551	21.4%	588	22.8%
México	Tijuana	jul-16	2601	324	12.5%	204	7.8%	165	6.3%	50.9%	496	19.1%	741	28.5%
México	Toluca Rural	mar-16	3122	293	9.4%	134	4.3%	136	4.4%	46.4%	597	19.1%	536	17.2%
México	Toluca Urban Area	oct-15	2650	150	5.7%	163	6.2%	60	2.3%	40.0%	292	11.0%	426	16.1%
México	Xalapa	nov-16	3339	403	12.1%	325	9.7%	208	6.2%	51.6%	564	16.9%	707	21.2%
Nicaragua	Managua	nov-18	3131	529	16.9%	630	20.1%	306	9.8%	57.8%	687	21.9%	1372	43.8%

Regional total			60329	7370	12.2%	6050	10.0%	3709	6.1%	50.3%	11238	18.6%	15641	25.0%
Europe														
Greece	Athens	feb-20	1934	120	6.2%	172	8.9%	35	1.8%	29.2%	115	5.9%	277	14.3%
Kosovo	Ferizaj	oct-17	890	41	4.6%	19	2.1%	15	1.7%	36.6%	124	13.9%	160	18.0%
Kosovo	Gjakova	jun-18	676	44	6.5%	16	2.4%	16	2.4%	36.4%	311	46.0%	347	51.3%
Kosovo	Gjilan	jun-17	1200	77	6.4%	45	3.8%	33	2.8%	42.9%	194	16.2%	241	20.1%
Kosovo	Peja	may-18	1433	129	9.0%	80	5.6%	59	4.1%	45.7%	276	19.3%	406	28.3%
Kosovo	Prishtina	jul-17	1056	81	7.7%	32	3.0%	29	2.7%	35.8%	218	20.6%	210	19.9%
Kosovo	Prizren	mar-17	1427	161	11.3%	32	2.2%	64	4.5%	39.8%	266	18.6%	439	30.8%
Poland	Katowice	jun-17	3185	339	10.6%	316	9.9%	136	4.3%	40.1%	548	17.2%	742	23.3%
Russia	Tyumen	may-19	3007	255	8.5%	179	6.0%	90	3.0%	35.3%	180	6.0%	382	12.7%
Spain	A Coruña	jan-19	3462	570	16.5%	712	20.6%	282	8.1%	49.5%	737	21.3%	1236	35.7%
Spain	Bilbao	sep-18	3379	641	19.0%	1010	29.9%	326	9.6%	50.9%	910	26.9%	1194	35.3%
Spain	Cantabria	feb-18	4382	676	15.4%	1033	23.6%	323	7.4%	47.8%	981	22.4%	1378	31.4%
Spain	Cartagena	jan-16	3437	350	10.2%	513	14.9%	141	4.1%	40.3%	477	13.9%	810	23.6%
Spain	Salamanca	sep-17	3485	511	14.7%	665	19.1%	207	5.9%	40.5%	825	23.7%	997	28.6%
Regional total			32953	3995	12.1%	4824	14.6%	1756	5.3%	44.0%	6162	18.7%	8819	26.8%
South-East Asia and Western Pacific														
Thailand	Bangkok	sep-17	3206	401	12.5%	282	8.8%	186	5.8%	46.4%	476	14.8%	961	30.0%
Taiwan	Taipei	oct-17	3474	321	9.2%	494	14.2%	115	3.3%	35.8%	870	25.0%	963	27.7%
India	Bikaner	nov-17	2702	65	2.4%	95	3.5%	42	1.6%	64.6%	236	8.7%	609	22.5%
India	Chandigarh	oct-17	3000	75	2.5%	36	1.2%	22	0.7%	29.3%	311	10.4%	1174	39.1%
India	Jaipur	nov-17	3060	207	6.8%	189	6.2%	65	2.1%	31.4%	299	9.8%	1400	45.8%
India	Kolkata	sep-17	2998	193	6.4%	292	9.7%	99	3.3%	51.3%	309	10.3%	986	32.9%
India	Kottayam	oct-17	2091	93	4.4%	89	4.3%	32	1.5%	34.4%	100	4.8%	362	17.3%
India	Lucknow	oct-17	2969	48	1.6%	39	1.3%	25	0.8%	52.1%	281	9.5%	673	22.7%
India	Mysuru (Mysore)	nov-17	3051	100	3.3%	72	2.4%	59	1.9%	59.0%	232	7.6%	371	12.2%
India	New Delhi (7)	nov-17	3024	27	0.9%	8	0.3%	15	0.5%	55.6%	199	6.6%	825	27.3%
India	Pune	oct-17	3030	139	4.6%	238	7.9%	60	2.0%	43.2%	322	10.6%	1001	33.0%
Sri Lanka	Anuradhapura	oct-18	2989	446	14.9%	314	10.5%	208	7.0%	46.6%	517	17.3%	382	12.8%
Sri Lanka	Peradeniya	nov-18	1696	259	15.3%	214	12.6%	100	5.9%	38.6%	237	14.0%	218	12.9%
New Zealand	Auckland	oct-18	1885	280	14.9%	426	22.6%	96	5.1%	34.3%	428	22.7%	469	24.9%
Regional total			39175	2654	6.8%	2788	7.1%	1124	2.9%	42.4%	4817	12.3%	10394	26.5%
Global total			157784	17439	11.1%	16593	10.5%	8282	5.2%	47.5%	28819	18.3%	42470	27.0%

Notes: Centres not included in the analyses: Guatemala City (Guatemala) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants affected by COVID (Karaj). Fieldwork affected by COVID (Durban, Lattakia, Damascus). No date of birth on questionnaire (Ibadan, Taipei). Response rates <80% (Durban, Costa Rica, Cartagena). Age and birth date showed high inconsistencies (Quito). <10 schools participated when >10 schools available (Chihuahua, Ciudad Victoria, México City North, Toluca Urban, Bangkok, Auckland). Date of birth unreliable, age used (Monterrey). No age on questionnaire (Chandigarh, New Delhi [7], Kolkata). Questionnaires completed at home by parents (Kottayam). >20% of questionnaires missing age and date of birth (Bangkok). <1000 participants (Karaj, Ferizaj, Gjakova). 68% of participants 12 years of age (Peja). Date of interview unreliable (Monterrey). Single data entry (Monterrey). >20% questionnaires missing date of birth (Puerto Vallarta).

Web table 2: Prevalence of asthma indicators among children in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Wheeze in the past 12 months		Asthma ever		Severe asthma Symptoms in the past 12 months			Exercise wheeze in the past 12 months		Night cough in the past 12 months	
				N	%	N	%	N	%	% of wheeze	N	%	N	%
Africa and Eastern Mediterranean														
Cameroon	Yaounde	feb-19	722	46	6.4%	13	1.8%	20	2.8%	43.5%	27	3.7%	147	20.4%
Iran	Karaj	feb-20	572	79	13.8%	56	9.8%	32	5.6%	40.5%	57	10.0%	274	47.9%
Iran	Yazd	jun-20	2526	148	5.9%	88	3.5%	39	1.5%	26.4%	99	3.9%	280	11.1%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	3614	377	10.4%	500	13.8%	188	5.2%	49.9%	242	6.7%	685	19.0%
Syrian Arab Republic	Lattakia	may-19	1116	121	10.8%	133	11.9%	60	5.4%	49.6%	129	11.6%	325	29.1%
Regional total			8550	771	9.0%	790	9.2%	339	4.0%	44.0%	554	6.5%	1711	20.0%
America														
Costa Rica	Costa Rica	jan-18	1936	449	23.2%	567	29.3%	256	13.2%	57.0%	237	12.2%	889	45.9%
Honduras	Tegucigalpa	jun-18	361	41	11.4%	54	15.0%	25	6.9%	61.0%	26	7.2%	49	13.6%
México	Aguascalientes	aug-16	3176	347	10.9%	306	9.6%	179	5.6%	51.6%	375	11.8%	622	19.6%
México	Chihuahua	may-16	1969	203	10.3%	164	8.3%	94	4.8%	46.3%	220	11.2%	425	21.6%
México	Ciudad Juárez	apr-16	2118	187	8.8%	90	4.2%	89	4.2%	47.6%	228	10.8%	418	19.7%
México	Ciudad Victoria	feb-16	2444	285	11.7%	160	6.5%	142	5.8%	49.8%	245	10.0%	555	22.7%
México	Córdoba	jul-16	2746	307	11.2%	182	6.6%	131	4.8%	42.7%	237	8.6%	540	19.7%
México	Matamoros	feb-16	806	86	10.7%	49	6.1%	41	5.1%	47.7%	54	6.7%	155	19.2%
México	Mexicali	mar-16	2001	280	14.0%	150	7.5%	152	7.6%	54.3%	296	14.8%	461	23.0%
México	México City (North Area)	jun-16	2515	266	10.6%	129	5.1%	109	4.3%	41.0%	230	9.1%	498	19.8%
México	Michoacán	oct-16	2166	175	8.1%	82	3.8%	82	3.8%	46.9%	162	7.5%	354	16.3%
México	Oaxaca	oct-17	1329	112	8.4%	47	3.5%	42	3.2%	37.5%	100	7.5%	199	15.0%
México	Puerto Vallarta	jan-17	2241	367	16.4%	203	9.1%	203	9.1%	55.3%	235	10.5%	631	28.2%
México	San Luis Potosí	jul-16	2108	178	8.4%	118	5.6%	73	3.5%	41.0%	198	9.4%	447	21.2%
México	Tijuana	apr-16	2082	218	10.5%	105	5.0%	102	4.9%	46.8%	162	7.8%	450	21.6%
México	Toluca Rural	jan-16	2976	178	6.0%	63	2.1%	75	2.5%	42.1%	214	7.2%	336	11.3%
México	Toluca Urban Area	apr-16	2712	174	6.4%	93	3.4%	79	2.9%	45.4%	177	6.5%	488	18.0%
México	Xalapa	feb-17	3717	346	9.3%	200	5.4%	168	4.5%	48.6%	273	7.3%	599	16.1%
Nicaragua	Managua	nov-18	3162	385	12.2%	444	14.0%	188	5.9%	48.8%	249	7.9%	1029	32.5%
Regional total			42565	4584	10.8%	3206	7.5%	2230	5.2%	48.6%	3918	9.2%	9145	21.5%
Europe														
Kosovo	Peja	may-18	1441	61	4.2%	29	2.0%	17	1.2%	27.9%	30	2.1%	188	13.0%
Russia	Tyumen	apr-19	2969	89	3.0%	243	8.2%	47	1.6%	52.8%	30	1.0%	188	6.3%
Spain	A Coruña	jan-19	3407	374	11.0%	332	9.7%	151	4.4%	40.4%	166	4.9%	1054	30.9%
Spain	Bilbao	ago-18	2707	295	10.9%	615	22.7%	111	4.1%	37.6%	174	6.4%	752	27.8%
Spain	Cantabria	jan-18	2841	324	11.4%	490	17.2%	125	4.4%	38.6%	162	5.7%	851	30.0%
Spain	Cartagena	jan-16	3509	411	11.7%	362	10.3%	153	4.4%	37.2%	213	6.1%	960	27.4%
Spain	Salamanca	sep-17	2388	219	9.2%	191	8.0%	70	2.9%	32.0%	103	4.3%	544	22.8%
Regional total			19262	1773	9.2%	2262	11.7%	674	3.5%	38.0%	878	4.6%	4537	23.5%
South-East Asia and Western Pacific														
India	Bikaner	dec-17	2600	9	0.3%	8	0.3%	1	0.0%	11.1%	7	0.3%	32	1.2%

India	Chandigarh	oct-17	2473	211	8.5%	32	1.3%	29	1.2%	13.7%	153	6.2%	780	31.5%
India	Jaipur	nov-17	2296	54	2.4%	50	2.2%	18	0.8%	33.3%	57	2.5%	456	19.9%
India	Kottayam	dec-17	2099	115	5.5%	73	3.5%	60	2.9%	52.2%	38	1.8%	439	20.9%
India	Lucknow	oct-17	2969	33	1.1%	18	0.6%	14	0.5%	42.4%	57	1.9%	200	6.7%
India	Mysuru (Mysore)	nov-17	2730	75	2.7%	47	1.7%	38	1.4%	50.7%	71	2.6%	282	10.3%
India	New Delhi (7)	jan-18	2516	87	3.5%	11	0.4%	19	0.8%	21.8%	67	2.7%	575	22.9%
India	Pune	oct-17	2404	50	2.1%	44	1.8%	17	0.7%	34.0%	105	4.4%	476	19.8%
New Zealand	Auckland	jul-18	1538	267	17.4%	296	19.2%	103	6.7%	38.6%	185	12.0%	382	24.8%
Sri Lanka	Anuradhapura	nov-18	2180	217	10.0%	122	5.6%	76	3.5%	35.0%	104	4.8%	234	10.7%
Sri Lanka	Peradeniya	nov-18	1492	179	12.0%	124	8.3%	56	3.8%	31.3%	75	5.0%	145	9.7%
Taiwan	Taipei	oct-17	3036	413	13.6%	441	14.5%	111	3.7%	26.9%	208	6.9%	995	32.8%
Thailand	Bangkok	aug-17	3067	449	14.6%	186	6.1%	208	6.8%	46.3%	93	3.0%	743	24.2%
Regional Total			31400	2159	6.9%	1452	4.6%	750	2.4%	34.7%	1220	3.9%	5739	18.3%
Global total			101777	9287	9.1%	7710	7.6%	3993	3.9%	43.0%	6570	6.4%	21132	20.8%

Notes: Centres not included in the analyses: Guatemala City (Guatemala), Katowice (Poland), Monterrey (México) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants and response rate affected by civil war (Yaounde). Number of participants affected by COVID (Karaj). No age on questionnaire (New Delhi [7]). <10 schools participated when >10 schools available (Bangkok, Lattakia). >20% of questionnaires missing age and date of birth (Bangkok). Response rate <70% (Costa Rica, Bilbao, Cartagena, Kottayam, Auckland). No date of birth on questionnaire (Taipei). <1000 participants (Tegucigalpa, Matamoros).

Web table 4: Prevalence of rhinoconjunctivitis indicators among adolescents in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Rhinitis symptoms in past 12 months		Hay fever ever		Rhinoconjunctivitis symptoms in the past 12 months		Severe rhinoconjunctivitis symptoms in the past 12 months		
				N	%	N	%	N	%	N	%	% of RC
Africa and Eastern Mediterranean												
Cameroon	Yaounde	feb-19	1066	389	36.5%	297	27.9%	136	12.8%	14	1.3%	10.3%
Iran	Karaj	feb-20	754	258	34.2%	241	32.0%	90	11.9%	1	0.1%	1.1%
Iran	Yazd	may-20	5141	1869	36.4%	1281	24.9%	539	10.5%	11	0.2%	2.0%
Nigeria	Ibadan	may-18	2897	661	22.8%	156	5.4%	277	9.6%	23	0.8%	8.3%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	4086	1237	30.3%	531	13.0%	574	14.0%	55	1.3%	9.6%
South Africa	Cape Town	aug-17	3979	1831	46.0%	1491	37.5%	947	23.8%	136	3.4%	14.4%
South Africa	Durban	feb-20	1960	751	38.3%	664	33.9%	429	21.9%	63	3.2%	14.7%
Sudan	Gadarif	feb-17	1344	275	20.5%	411	30.6%	123	9.2%	7	0.5%	5.7%
Sudan	Khartoum	mar-17	1785	565	31.7%	575	32.2%	268	15.0%	28	1.6%	10.4%
Syrian Arab Republic	Damascus	oct-18	1100	438	39.8%	91	8.3%	184	16.7%	0	0.0%	0.0%
Syrian Arab Republic	Lattakia	apr-19	1215	572	47.1%	241	19.8%	366	30.1%	22	1.8%	6.0%
Regional total			25327	8846	34.9%	5979	23.1%	3933	15.5%	360	1.4%	9.2%
America												
Argentina	San Francisco	nov-19	1012	545	53.9%	353	34.9%	280	27.7%	13	1.3%	4.6%
Brazil	Uruguaiana	jan-18	1058	642	60.7%	429	40.5%	212	20.0%	9	0.9%	4.2%
Chile	South Santiago	mar-15	2750	900	32.7%	304	11.1%	513	18.7%	33	1.2%	6.4%
Costa Rica	Costa Rica	feb-18	1338	557	41.6%	492	36.8%	339	25.3%	23	1.7%	6.8%
Ecuador	Quito	apr-19	3000	1371	45.7%	361	12.0%	713	23.8%	13	0.4%	1.8%
Honduras	Tegucigalpa	jun-18	1431	324	22.6%	437	30.5%	0	0.0%	0	0.0%	
México	Aguascalientes	dec-15	3336	815	24.4%	192	5.8%	389	11.7%	14	0.4%	3.6%
México	Chihuahua	mar-16	2180	576	26.4%	157	7.2%	305	14.0%	18	0.8%	5.9%
México	Ciudad Juárez	may-16	2443	733	30.0%	99	4.1%	371	15.2%	18	0.7%	4.9%
México	Ciudad Victoria	dec-15	2468	693	28.1%	102	4.1%	351	14.2%	30	1.2%	8.5%
México	Córdoba	jul-16	2991	918	30.7%	364	12.2%	477	15.9%	32	1.1%	6.7%
México	Matamoros	may-16	2892	810	28.0%	230	8.0%	384	13.3%	26	0.9%	6.8%
México	Méxicali	apr-16	2479	749	30.2%	172	6.9%	345	13.9%	23	0.9%	6.7%
México	México City (North Area)	sep-15	3375	723	21.4%	209	6.2%	311	9.2%	16	0.5%	5.1%
México	Michoacán	sep-16	2504	578	23.1%	139	5.6%	263	10.5%	13	0.5%	4.9%
México	Monterrey	dec-17	2641	997	37.8%	579	21.9%	562	21.3%	37	1.4%	6.6%
México	Oaxaca	may-17	2569	494	19.2%	106	4.1%	200	7.8%	7	0.3%	3.5%
México	Puerto Vallarta	jun-16	2439	582	23.9%	93	3.8%	276	11.3%	27	1.1%	9.8%
México	San Luis Potosí	jun-16	2580	742	28.8%	154	6.0%	344	13.3%	14	0.5%	4.1%
México	Tijuana	jul-16	2601	607	23.3%	115	4.4%	298	11.5%	14	0.5%	4.7%

México	Toluca Rural	mar-16	3122	801	25.7%	114	3.7%	353	11.3%	13	0.4%	3.7%
México	Toluca Urban Area	oct-15	2650	608	22.9%	168	6.3%	234	8.8%	8	0.3%	3.4%
México	Xalapa	nov-16	3339	746	22.3%	229	6.9%	378	11.3%	29	0.9%	7.7%
Nicaragua	Managua	nov-18	3131	672	21.5%	0	0.0%	284	9.1%	19	0.6%	6.7%
Regional total			60329	17183	28.5%	5598	9.3%	8182	13.6%	449	0.7%	5.5%
Europe												
Greece	Athens	feb-20	1934	463	23.9%	289	14.9%	132	6.8%	4	0.2%	3.0%
Kosovo	Ferizaj	oct-17	890	201	22.6%	67	7.5%	93	10.4%	4	0.4%	4.3%
Kosovo	Gjakova	jun-18	676	130	19.2%	48	7.1%	65	9.6%	3	0.4%	4.6%
Kosovo	Gjilan	jun-17	1200	300	25.0%	174	14.5%	134	11.2%	5	0.4%	3.7%
Kosovo	Peja	may-18	1433	389	27.1%	202	14.1%	173	12.1%	15	1.0%	8.7%
Kosovo	Prishtina	jul-17	1056	293	27.7%	128	12.1%	120	11.4%	5	0.5%	4.2%
Kosovo	Prizren	mar-17	1427	469	32.9%	207	14.5%	186	13.0%	10	0.7%	5.4%
Poland	Katowice	jun-17	3185	781	24.5%	865	27.2%	424	13.3%	46	1.4%	10.8%
Russia	Tyumen	may-19	3007	871	29.0%	301	10.0%	336	11.2%	6	0.2%	1.8%
Spain	A Coruña	jan-19	3462	1462	42.2%	540	15.6%	652	18.8%	28	0.8%	4.3%
Spain	Bilbao	sep-18	3379	1303	38.6%	526	15.6%	639	18.9%	38	1.1%	5.9%
Spain	Cantabria	feb-18	4382	1436	32.8%	586	13.4%	642	14.7%	33	0.8%	5.1%
Spain	Cartagena	jan-16	3437	860	25.0%	322	9.4%	414	12.0%	13	0.4%	3.1%
Spain	Salamanca	sep-17	3485	1291	37.0%	718	20.6%	643	18.5%	38	1.1%	5.9%
Regional total			32953	10249	31.1%	4973	15.1%	4653	14.1%	248	0.8%	5.3%
South-East Asia and Western Pacific												
India	Bikaner	nov-17	2702	655	24.2%	333	12.3%	189	7.0%	10	0.4%	5.3%
India	Chandigarh	oct-17	3000	878	29.3%	438	14.6%	320	10.7%	11	0.4%	3.4%
India	Jaipur	nov-17	3060	1177	38.5%	592	19.3%	470	15.4%	12	0.4%	2.6%
India	Kolkata	sep-17	2998	614	20.5%	276	9.2%	164	5.5%	14	0.5%	8.5%
India	Kottayam	oct-17	2091	487	23.3%	328	15.7%	147	7.0%	11	0.5%	7.5%
India	Lucknow	oct-17	2969	372	12.5%	269	9.1%	145	4.9%	2	0.1%	1.4%
India	Mysuru (Mysore)	nov-17	3051	415	13.6%	305	10.0%	147	4.8%	8	0.3%	5.4%
India	New Delhi (7)	nov-17	3024	1013	33.5%	694	22.9%	405	13.4%	6	0.2%	1.5%
India	Pune	oct-17	3030	503	16.6%	270	8.9%	203	6.7%	8	0.3%	3.9%
New Zealand	Auckland	oct-18	1885	582	30.9%	830	44.0%	252	13.4%	17	0.9%	6.7%
Sri Lanka	Anuradhapura	oct-18	2989	673	22.5%	414	13.9%	342	11.4%	20	0.7%	5.8%
Sri Lanka	Peradeniya	nov-18	1696	517	30.5%	296	17.5%	209	12.3%	4	0.2%	1.9%
Taiwan	Taipei	oct-17	3474	1810	52.1%	1442	41.5%	598	17.2%	70	2.0%	11.7%
Thailand	Bangkok	sep-17	3206	1553	48.4%	968	30.2%	559	17.4%	61	1.9%	10.9%
Regional total			39175	11249	28.7%	7455	19.0%	4150	10.6%	254	0.6%	6.1%
Global total			157784	47527	30.1%	24005	15.2%	20918	13.3%	1311	0.8%	6.3%

Notes: Centres not included in the analyses: Guatemala City (Guatemala) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants affected by COVID (Karaj). Fieldwork affected by COVID (Durban, Lattakia, Damascus). No date of birth on questionnaire (Ibadan, Taipei). Response rates <80% (Durban, Costa Rica, Cartagena). Age and birth date showed high inconsistencies (Quito). <10 schools participated when >10 schools available (Chihuahua, Ciudad Victoria, México City North, Toluca Urban, Bangkok, Auckland). Date of birth unreliable, age used (Monterrey). No age on questionnaire (Chandigarh, New Delhi [7], Kolkata). Questionnaires completed at home by parents

(Kottayam). >20% of questionnaires missing age and date of birth (Bangkok). <1000 participants (Karaj, Ferizaj, Gjakova). 68% of participants 12 years of age (Peja). Date of interview unreliable (Monterrey). Single data entry (Monterrey). >20% questionnaires missing date of birth (Puerto Vallarta).

Web table 5: Prevalence of rhinoconjunctivitis indicators among children in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Rhinitis symptoms in past 12 months		Hay fever ever		Rhinoconjunctivitis symptoms in the past 12 months		Severe rhinoconjunctivitis symptoms in the past 12 months		
				N	%	N	%	N	%	N	%	% of RC
Africa and Eastern Mediterranean												
Cameroon	Yaounde	feb-19	722	85	11.8%	141	19.5%	32	4.4%	4	0.6%	12.5%
Iran	Karaj	feb-20	572	113	19.8%	184	32.2%	30	5.2%	1	0.2%	3.3%
Iran	Yazd	jun-20	2526	260	10.3%	349	13.8%	66	2.6%	4	0.2%	6.1%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	3614	517	14.3%	171	4.7%	204	5.6%	18	0.5%	8.8%
Syrian Arab Republic	Lattakia	may-19	1116	284	25.4%	264	23.7%	136	12.2%	18	1.6%	13.2%
Regional total			8550	1259	14.7%	1109	13.0%	468	5.5%	45	0.5%	9.6%
America												
Costa Rica	Costa Rica	jan-18	1936	732	37.8%	725	37.4%	447	23.1%	22	1.1%	4.9%
Honduras	Tegucigalpa	jun-18	361	59	16.3%	52	14.4%	34	9.4%	1	0.3%	2.9%
México	Aguascalientes	aug-16	3176	568	17.9%	293	9.2%	307	9.7%	30	0.9%	9.8%
México	Chihuahua	may-16	1969	553	28.1%	219	11.1%	327	16.6%	26	1.3%	8.0%
México	Ciudad Juárez	apr-16	2118	338	16.0%	96	4.5%	186	8.8%	20	0.9%	10.8%
México	Ciudad Victoria	feb-16	2444	413	16.9%	168	6.9%	184	7.5%	10	0.4%	5.4%
México	Córdoba	jul-16	2746	446	16.2%	263	9.6%	190	6.9%	12	0.4%	6.3%
México	Matamoros	feb-16	806	120	14.9%	40	5.0%	45	5.6%	3	0.4%	6.7%
México	Mexicali	mar-16	2001	540	27.0%	260	13.0%	348	17.4%	21	1.0%	6.0%
México	México City (North Area)	jun-16	2515	507	20.2%	294	11.7%	240	9.5%	26	1.0%	10.8%
México	Michoacán	oct-16	2166	262	12.1%	89	4.1%	113	5.2%	9	0.4%	8.0%
México	Oaxaca	oct-17	1329	191	14.4%	105	7.9%	73	5.5%	3	0.2%	4.1%
México	Puerto Vallarta	jan-17	2241	379	16.9%	103	4.6%	162	7.2%	14	0.6%	8.6%
México	San Luis Potosí	jul-16	2108	480	22.8%	297	14.1%	217	10.3%	12	0.6%	5.5%
México	Tijuana	apr-16	2082	290	13.9%	115	5.5%	135	6.5%	19	0.9%	14.1%
México	Toluca Rural	jan-16	2976	317	10.7%	176	5.9%	160	5.4%	13	0.4%	8.1%
México	Toluca Urban Area	apr-16	2712	450	16.6%	215	7.9%	215	7.9%	23	0.8%	10.7%
México	Xalapa	feb-17	3717	633	17.0%	381	10.3%	265	7.1%	23	0.6%	8.7%
Nicaragua	Managua	nov-18	3162	604	19.1%	0	0.0%	367	11.6%	28	0.9%	7.6%
Regional total			42565	7882	18.5%	3891	9.1%	4015	9.4%	315	0.7%	7.8%
Europe												
Kosovo	Peja	may-18	1441	158	11.0%	135	9.4%	48	3.3%	5	0.3%	10.4%
Russia	Tyumen	apr-19	2969	317	10.7%	183	6.2%	125	4.2%	8	0.3%	6.4%
Spain	A Coruña	ene-19	3407	810	23.8%	391	11.5%	326	9.6%	12	0.4%	3.7%
Spain	Bilbao	aug-18	2707	556	20.5%	239	8.8%	230	8.5%	15	0.6%	6.5%
Spain	Cantabria	jan-18	2841	574	20.2%	246	8.7%	224	7.9%	11	0.4%	4.9%
Spain	Cartagena	jan-16	3509	595	17.0%	233	6.6%	251	7.2%	13	0.4%	5.2%
Spain	Salamanca	sep-17	2388	492	20.6%	261	10.9%	223	9.3%	6	0.3%	2.7%

			Regional total	19262	3502	18.2%	1688	8.8%	1427	7.4%	70	0.4%	4.9%
South-East Asia and Western Pacific													
India	Bikaner	dec-17	2600	24	0.9%	21	0.8%	4	0.2%	0	0.0%	0.0%	
India	Chandigarh	oct-17	2473	296	12.0%	299	12.1%	86	3.5%	5	0.2%	5.8%	
India	Jaipur	nov-17	2296	225	9.8%	271	11.8%	56	2.4%	2	0.1%	3.6%	
India	Kottayam	dic-17	2099	286	13.6%	95	4.5%	60	2.9%	7	0.3%	11.7%	
India	Lucknow	oct-17	2969	61	2.1%	118	4.0%	15	0.5%	2	0.1%	13.3%	
India	Mysuru (Mysore)	nov-17	2730	174	6.4%	233	8.5%	61	2.2%	3	0.1%	4.9%	
India	New Delhi (7)	jan-18	2516	375	14.9%	260	10.3%	96	3.8%	0	0.0%	0.0%	
India	Pune	oct-17	2404	113	4.7%	161	6.7%	24	1.0%	1	0.0%	4.2%	
New Zealand	Auckland	jul-18	1538	325	21.1%	406	26.4%	159	10.3%	10	0.7%	6.3%	
Sri Lanka	Anuradhapura	nov-18	2180	219	10.0%	231	10.6%	86	3.9%	9	0.4%	10.5%	
Sri Lanka	Peradeniya	nov-18	1492	234	15.7%	197	13.2%	75	5.0%	6	0.4%	8.0%	
Taiwan	Taipei	oct-17	3036	1434	47.2%	1554	51.2%	729	24.0%	78	2.6%	10.7%	
Thailand	Bangkok	aug-17	3067	1175	38.3%	754	24.6%	462	15.1%	30	1.0%	6.5%	
Regional total			31400	4941	15.7%	4600	14.6%	1913	6.1%	153	0.5%	8.0%	
Global total			101777	17584	17.3%	11288	11.1%	7823	7.7%	583	0.6%	7.4%	

Notes: Centres not included in the analyses: Guatemala City (Guatemala), Katowice (Poland), Monterrey (México) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants and response rate affected by civil war (Yaounde). Number of participants affected by COVID (Karaj). No age on questionnaire (New Delhi [7]). <10 schools participated when >10 schools available (Bangkok, Lattakia). >20% of questionnaires missing age and date of birth (Bangkok). Response rate <70% (Costa Rica, Bilbao, Cartagena, Kottayam, Auckland). No date of birth on questionnaire (Taipei). <1000 participants (Tegucigalpa, Matamoros).

Web table 6. Prevalence of eczema indicators among adolescents in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Flexural rash in the past 12 months		Eczema ever		Severe flexural rash in the past 12 months		
				N	%	N	%	N	%	% of rash
Africa and Eastern Mediterranean										
Cameroon	Yaounde	feb-19	1066	96	9.0%	164	15.4%	26	2.4%	27.1%
Iran	Karaj	feb-20	754	38	5.0%	58	7.7%	0	0.0%	0.0%
Iran	Yazd	may-20	5141	148	2.9%	373	7.3%	16	0.3%	10.8%
Nigeria	Ibadan	may-18	2897	135	4.7%	422	14.6%	32	1.1%	23.7%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	4086	209	5.1%	489	12.0%	38	0.9%	18.2%
South Africa	Cape Town	aug-17	3979	570	14.3%	725	18.2%	187	4.7%	32.8%
South Africa	Durban	feb-20	1960	199	10.2%	232	11.8%	46	2.3%	23.1%
Sudan	Gadarif	feb-17	1344	88	6.5%	140	10.4%	11	0.8%	12.5%
Sudan	Khartoum	mar-17	1785	188	10.5%	509	28.5%	50	2.8%	26.6%
Syrian Arab Republic	Damascus	oct-18	1100	36	3.3%	94	8.5%	10	0.9%	27.8%
Syrian Arab Republic	Lattakia	apr-19	1215	124	10.2%	140	11.5%	32	2.6%	25.8%
Regional total			25327	1831	7.2%	3346	13.2%	448	1.8%	24.5%
America										
Argentina	San Francisco	nov-19	1012	143	14.1%	87	8.6%	14	1.4%	9.8%
Brazil	Uruguaiiana	jan-18	1058	53	5.0%	48	4.5%	10	0.9%	18.9%
Chile	South Santiago	mar-15	2750	509	18.5%	270	9.8%	42	1.5%	8.3%
Costa Rica	Costa Rica	feb-18	1338	116	8.7%	240	17.9%	24	1.8%	20.7%
Ecuador	Quito	apr-19	3000	318	10.6%	105	3.5%	46	1.5%	14.5%
Honduras	Tegucigalpa	jun-18	1431	113	7.9%	148	10.3%	5	0.3%	4.4%
México	Aguascalientes	dec-15	3336	143	4.3%	66	2.0%	22	0.7%	15.4%
México	Chihuahua	mar-16	2180	92	4.2%	85	3.9%	8	0.4%	8.7%
México	Ciudad Juárez	may-16	2443	147	6.0%	47	1.9%	16	0.7%	10.9%
México	Ciudad Victoria	dec-15	2468	160	6.5%	47	1.9%	27	1.1%	16.9%
México	Córdoba	jul-16	2991	198	6.6%	178	6.0%	34	1.1%	17.2%
México	Matamoros	may-16	2892	145	5.0%	53	1.8%	34	1.2%	23.4%
México	Mexicali	apr-16	2479	99	4.0%	55	2.2%	14	0.6%	14.1%
México	México City (North Area)	sep-15	3375	130	3.9%	192	5.7%	22	0.7%	16.9%
México	Michoacán	sep-16	2504	72	2.9%	43	1.7%	9	0.4%	12.5%
México	Monterrey	dec-17	2641	248	9.4%	262	9.9%	35	1.3%	14.1%
México	Oaxaca	may-17	2569	68	2.6%	85	3.3%	15	0.6%	22.1%
México	Puerto Vallarta	jun-16	2439	87	3.6%	44	1.8%	25	1.0%	28.7%
México	San Luis Potosí	jun-16	2580	120	4.7%	81	3.1%	16	0.6%	13.3%
México	Tijuana	jul-16	2601	125	4.8%	72	2.8%	22	0.8%	17.6%
México	Toluca Rural	mar-16	3122	134	4.3%	86	2.8%	24	0.8%	17.9%
México	Toluca Urban Area	oct-15	2650	120	4.5%	129	4.9%	12	0.5%	10.0%

México	Xalapa	nov-16	3339	114	3.4%	89	2.7%	27	0.8%	23.7%
Nicaragua	Managua	nov-18	3131	178	5.7%	241	7.7%	49	1.6%	27.5%
Regional total			60329	3632	6.0%	2753	4.6%	552	0.9%	15.2%
Europe										
Greece	Athens	feb-20	1934	110	5.7%	236	12.2%	5	0.3%	4.5%
Kosovo	Ferizaj	oct-17	890	20	2.2%	27	3.0%	0	0.0%	0.0%
Kosovo	Gjakova	jun-18	676	37	5.5%	46	6.8%	5	0.7%	13.5%
Kosovo	Gjilan	jun-17	1200	49	4.1%	50	4.2%	7	0.6%	14.3%
Kosovo	Peja	may-18	1433	72	5.0%	81	5.7%	8	0.6%	11.1%
Kosovo	Prishtina	jul-17	1056	56	5.3%	42	4.0%	5	0.5%	8.9%
Kosovo	Prizren	mar-17	1427	66	4.6%	92	6.4%	8	0.6%	12.1%
Poland	Katowice	jun-17	3185	261	8.2%	246	7.7%	21	0.7%	8.0%
Russia	Tyumen	may-19	3007	153	5.1%	295	9.8%	34	1.1%	22.2%
Spain	A Coruña	jan-19	3462	378	10.9%	1068	30.8%	41	1.2%	10.8%
Spain	Bilbao	sep-18	3379	408	12.1%	1026	30.4%	48	1.4%	11.8%
Spain	Cantabria	feb-18	4382	457	10.4%	1239	28.3%	54	1.2%	11.8%
Spain	Cartagena	jan-16	3437	217	6.3%	564	16.4%	19	0.6%	8.8%
Spain	Salamanca	sep-17	3485	523	15.0%	1339	38.4%	60	1.7%	11.5%
Regional total			32953	2807	8.5%	6351	19.3%	315	1.0%	11.2%
South-East Asia and Western Pacific										
India	Bikaner	nov-17	2702	113	4.2%	293	10.8%	0	0.0%	0.0%
India	Chandigarh	oct-17	3000	102	3.4%	254	8.5%	11	0.4%	10.8%
India	Jaipur	nov-17	3060	151	4.9%	669	21.9%	16	0.5%	10.6%
India	Kolkata	sep-17	2998	163	5.4%	458	15.3%	24	0.8%	14.7%
India	Kottayam	oct-17	2091	66	3.2%	75	3.6%	9	0.4%	13.6%
India	Lucknow	oct-17	2969	57	1.9%	259	8.7%	8	0.3%	14.0%
India	Mysuru (Mysore)	nov-17	3051	43	1.4%	64	2.1%	5	0.2%	11.6%
India	New Delhi (7)	nov-17	3024	152	5.0%	186	6.2%	42	1.4%	27.6%
India	Pune	oct-17	3030	60	2.0%	132	4.4%	12	0.4%	20.0%
New Zealand	Auckland	oct-18	1885	116	6.2%	354	18.8%	21	1.1%	18.1%
Sri Lanka	Anuradhapura	oct-18	2989	33	1.1%	212	7.1%	3	0.1%	9.1%
Sri Lanka	Peradeniya	nov-18	1696	73	4.3%	159	9.4%	6	0.4%	8.2%
Taiwan	Taipei	oct-17	3474	333	9.6%	533	15.3%	40	1.2%	12.0%
Thailand	Bangkok	sep-17	3206	305	9.5%	558	17.4%	19	0.6%	6.2%
Regional total			39175	1767	4.5%	4206	10.7%	216	0.6%	12.2%
Global total			157784	10037	6.4%	16656	10.6%	1531	1.0%	15.3%

Notes: Centres not included in the analyses: Guatemala City (Guatemala) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants affected by COVID (Karaj). Fieldwork affected by COVID (Durban, Lattakia, Damascus). No date of birth on questionnaire (Ibadan, Taipei). Response rates <80% (Durban, Costa Rica, Cartagena). Age and birth date showed high inconsistencies (Quito). <10 schools participated when >10 schools available (Chihuahua, Ciudad Victoria, México City North, Toluca Urban, Bangkok, Auckland). Date of birth unreliable, age used (Monterrey). No age on questionnaire (Chandigarh, New Delhi [7], Kolkata). Questionnaires completed at home by parents (Kottayam). >20% of questionnaires missing age and date of birth (Bangkok). <1000 participants (Karaj, Ferizaj, Gjakova). 68% of participants 12 years of age (Peja). Date of interview unreliable (Monterrey). Single data entry (Monterrey). >20% questionnaires missing date of birth (Puerto Vallarta).

Web table 7. Prevalence of eczema indicators among children in the Global Asthma Network Phase I (GAN Phase I) by centre (2015-2020).

Country	Centre	Mean date data collection	Number of participants	Flexural rash in the past 12 months		Eczema ever		Severe flexural rash in the past 12 months		
				N	%	N	%	N	%	% of rash
Africa and Eastern Mediterranean										
Cameroon	Yaounde	feb-19	722	56	7.8%	48	6.6%	12	1.7%	21.4%
Iran	Karaj	feb-20	572	32	5.6%	70	12.2%	2	0.3%	6.3%
Iran	Yazd	jun-20	2526	61	2.4%	136	5.4%	3	0.1%	4.9%
Kingdom of Saudi Arabia	Saudi Arabia	mar-19	3614	168	4.6%	417	11.5%	28	0.8%	16.7%
Syrian Arab Republic	Lattakia	may-19	1116	34	3.0%	95	8.5%	13	1.2%	38.2%
Regional total			8550	351	4.1%	766	9.0%	58	0.7%	16.5%
America										
Costa Rica	Costa Rica	jan-18	1936	145	7.5%	307	15.9%	30	1.5%	20.7%
Honduras	Tegucigalpa	jun-18	361	14	3.9%	23	6.4%	0	0.0%	0.0%
México	Aguascalientes	aug-16	3176	163	5.1%	170	5.4%	18	0.6%	11.0%
México	Chihuahua	may-16	1969	144	7.3%	134	6.8%	13	0.7%	9.0%
México	Ciudad Juárez	apr-16	2118	98	4.6%	56	2.6%	11	0.5%	11.2%
México	Ciudad Victoria	feb-16	2444	148	6.1%	91	3.7%	27	1.1%	18.2%
México	Cordoba	jul-16	2746	133	4.8%	143	5.2%	13	0.5%	9.8%
México	Matamoros	feb-16	806	34	4.2%	17	2.1%	3	0.4%	8.8%
México	Mexicali	mar-16	2001	101	5.0%	89	4.4%	7	0.3%	6.9%
México	México City (North Area)	jun-16	2515	178	7.1%	287	11.4%	16	0.6%	9.0%
México	Michoacán	oct-16	2166	72	3.3%	63	2.9%	11	0.5%	15.3%
México	Oaxaca	oct-17	1329	56	4.2%	109	8.2%	4	0.3%	7.1%
México	Puerto Vallarta	jan-17	2241	192	8.6%	80	3.6%	33	1.5%	17.2%
México	San Luis Potosí	jul-16	2108	118	5.6%	139	6.6%	12	0.6%	10.2%
México	Tijuana	apr-16	2082	99	4.8%	76	3.7%	15	0.7%	15.2%
México	Toluca Rural	jan-16	2976	200	6.7%	147	4.9%	20	0.7%	10.0%
México	Toluca Urban Area	apr-16	2712	163	6.0%	208	7.7%	11	0.4%	6.7%
México	Xalapa	feb-17	3717	166	4.5%	210	5.6%	15	0.4%	9.0%
Nicaragua	Managua	nov-18	3162	133	4.2%	275	8.7%	26	0.8%	19.5%
Regional total			42565	2357	5.5%	2624	6.2%	285	0.7%	12.1%
Europe										
Kosovo	Peja	may-18	1441	33	2.3%	16	1.1%	2	0.1%	6.1%
Russia	Tyumen	apr-19	2969	102	3.4%	293	9.9%	17	0.6%	16.7%
Spain	A Coruña	jan-19	3407	347	10.2%	1613	47.3%	22	0.6%	6.3%
Spain	Bilbao	ago-18	2707	337	12.4%	1269	46.9%	24	0.9%	7.1%
Spain	Cantabria	jan-18	2841	266	9.4%	1312	46.2%	25	0.9%	9.4%
Spain	Cartagena	jan-16	3509	290	8.3%	1312	37.4%	42	1.2%	14.5%
Spain	Salamanca	sep-17	2388	217	9.1%	1134	47.5%	14	0.6%	6.5%

			Regional total	19262	1592	8.3%	6949	36.1%	146	0.8%	9.2%
South-East Asia and Western Pacific											
India	Bikaner	dec-17	2600	11	0.4%	291	11.2%	0	0.0%	0.0%	
India	Chandigarh	oct-17	2473	94	3.8%	105	4.2%	12	0.5%	12.8%	
India	Jaipur	nov-17	2296	96	4.2%	169	7.4%	7	0.3%	7.3%	
India	Kottayam	dec-17	2099	48	2.3%	41	2.0%	3	0.1%	6.3%	
India	Lucknow	oct-17	2969	38	1.3%	247	8.3%	8	0.3%	21.1%	
India	Mysuru (Mysore)	nov-17	2730	55	2.0%	80	2.9%	4	0.1%	7.3%	
India	New Delhi (7)	jan-18	2516	115	4.6%	135	5.4%	16	0.6%	13.9%	
India	Pune	oct-17	2404	41	1.7%	53	2.2%	7	0.3%	17.1%	
New Zealand	Auckland	jul-18	1538	231	15.0%	483	31.4%	28	1.8%	12.1%	
Sri Lanka	Anuradhapura	nov-18	2180	82	3.8%	83	3.8%	4	0.2%	4.9%	
Sri Lanka	Peradeniya	nov-18	1492	92	6.2%	75	5.0%	4	0.3%	4.3%	
Taiwan	Taipei	oct-17	3036	478	15.7%	694	22.9%	65	2.1%	13.6%	
Thailand	Bangkok	aug-17	3067	361	11.8%	878	28.6%	30	1.0%	8.3%	
Regional total			31400	1742	5.5%	3334	10.6%	188	0.6%	10.8%	
Global total			101777	6042	5.9%	13673	13.4%	677	0.7%	11.2%	

Notes: Centres not included in the analyses: Guatemala City (Guatemala), Katowice (Poland), Monterrey (México) and Salta (Argentina) due to participation rates lower than 50%; and Guadalajara (México) and Kolkata (India) due to major inconsistencies in the answers to the questionnaire. Number of participants and response rate affected by civil war (Yaounde). Number of participants affected by COVID (Karaj). No age on questionnaire (New Delhi [7]). <10 schools participated when >10 schools available (Bangkok, Lattakia). >20% of questionnaires missing age and date of birth (Bangkok). Response rate <70% (Costa Rica, Bilbao, Cartagena, Kottayam, Auckland). No date of birth on questionnaire (Taipei). <1000 participants (Tegucigalpa, Matamoros).

Web table 8: Prevalence of asthma, rhinoconjunctivitis and eczema indicators grouped by sex. GAN Phase I (2015-2020)

		Current wheeze	Asthma ever	Severe asthma symptoms	Current rhinoconjunctivitis symptoms	Hay fever ever	Severe rhinoconjunctivitis symptoms	Current eczema symptoms	Eczema ever	Severe eczema symptoms
13-14 years	Total (%)	11.1	10.5	5.2	13.3	15.2	0.8	6.4	10.6	1.0
	Male (%)	10.2	11.2	4.6	11.6	14.4	0.7	4.9	9.3	0.6
	Female (%)	11.8	9.8	5.8	16.0	15.9	0.9	7.6	11.6	1.3
	OR for males* (95%CI)	0.81 (0.78-0.84)	1.14 (1.10-1.18)	0.76 (0.72-0.79)	0.67 (0.65-0.69)	0.88 (0.86-0.91)	0.82 (0.74-0.93)	0.60 (0.58-0.63)	0.71 (0.68-0.73)	0.52 (0.46-0.58)
6-7 years	Total (%)	9.1	7.6	3.9	7.7	11.1	0.6	5.9	13.4	0.7
	Male (%)	9.9	8.4	4.2	8.0	11.9	0.6	5.9	13.5	0.7
	Female (%)	8.3	6.7	3.6	7.3	10.2	0.5	5.9	13.4	0.7
	OR for males* (95%CI)	1.24 (1.19-1.29)	1.33 (1.27-1.40)	1.20 (1.12-1.28)	1.16 (1.11-1.22)	1.18 (1.13-1.23)	1.19 (1.02-1.42)	1.01 (0.95-1.06)	1.01 (0.97-1.05)	1.03 (0.89-1.20)

All values as number and (percentage)

*Adjusted for school at second level and centre as third. See text for definitions of disease indicators.

Web table 9. Rank correlations and their 95%CI between centre prevalence rates of the indicators of the three conditions. (Upper triangle: adolescents; lower triangle: children). GAN Phase I (2015-2020)

	Current wheeze	Asthma ever	Severe asthma symptoms	Current rhinoconjunctivitis symptoms	Severe rhinoconjunctivitis symptoms	Hay fever ever	Current eczema symptoms	Eczema ever	Severe eczema symptoms
Current wheeze		0.72 (0.58-0.82)	0.93 (0.89-0.96)	0.61 (0.40-0.75)	0.53 (0.33-0.69)	0.23 (-0.02-0.45)	0.46 (0.24-0.64)	0.26 (0.01-0.48)	0.52 (0.31-0.68)
Asthma ever	0.82 (0.69-0.90)		0.67 (0.51-0.79)	0.53 (0.33-0.69)	0.51 (0.30-0.67)	0.35 (0.11-0.55)	0.58 (0.39-0.73)	0.50 (0.29-0.67)	0.51 (0.30-0.67)
Severe asthma symptoms	0.89 (0.80-0.94)	0.77 (0.61-0.87)		0.52 (0.31-0.68)	0.52 (0.31-0.68)	0.07 (-0.18-0.31)	0.39 (0.15-0.58)	0.14 (-0.11-0.37)	0.53 (0.33-0.69)
Current rhinoconjunctivitis symptoms	0.75 (0.58-0.86)	0.72 (0.53-0.84)	0.77 (0.61-0.87)		0.67 (0.51-0.79)	0.43 (0.20-0.61)	0.66 (0.49-0.78)	0.32 (0.08-0.52)	0.66 (0.50-0.78)
Severe rhinoconjunctivitis symptoms	0.60 (0.37-0.76)	0.49 (0.23-0.69)	0.68 (0.47-0.81)	0.82 (0.69-0.90)		0.30 (0.05-0.51)	0.58 (0.39-0.73)	0.25 (0.01-0.47)	0.65 (0.48-0.77)
Hay fever ever	0.39 (0.11-0.62)	0.29 (-0.01-0.54)	0.23 (-0.07-0.49)	0.40 (0.11-0.62)	0.24 (-0.06-0.50)		0.50 (0.29-0.67)	0.64 (0.47-0.77)	0.23 (-0.02-0.45)
Current eczema symptoms	0.68 (0.48-0.81)	0.57 (0.33-0.74)	0.49 (0.23-0.69)	0.67 (0.47-0.81)	0.53 (0.27-0.71)	0.40 (0.12-0.62)		0.61 (0.43-0.75)	0.72 (0.58-0.82)
Eczema ever	0.34 (0.04-0.58)	0.53 (0.28-0.72)	0.17 (-0.13-0.45)	0.43 (0.15-0.65)	0.13 (-0.18-0.41)	0.35 (0.05-0.58)	0.55 (0.30-0.73)		0.36 (0.13-0.56)
Severe eczema symptoms	0.55 (0.30-0.73)	0.51 (0.25-0.70)	0.49 (0.23-0.69)	0.62 (0.40-0.77)	0.61 (0.38-0.77)	0.18 (-0.13-0.45)	0.74 (0.57-0.85)	0.46 (0.19-0.67)	

FIGURE CAPTIONS

Figure 1

Maps of the prevalence of a) current wheeze, b) asthma ever, c) hay fever ever and d) eczema ever in the adolescents. The symbols indicate prevalence values of <5% (blue squares), 5 to <10% (green circle), 10 to <20% (yellow diamonds) and $\geq 20\%$ (red stars).

Figure 2

Maps of the prevalence of a) current wheeze, b) asthma ever, c) hay fever ever and d) eczema ever in the children. The symbols indicate prevalence values of <5% (blue squares), 5 to <10% (green circle), 10 to <20% (yellow diamonds) and $\geq 20\%$ (red stars).

Figure 3

Rank correlation values and scatter plots of the prevalences of asthma ever, hay fever ever and eczema ever at the centre level in a) adolescents and b) children. The dashed line is the normality line. Intraclass correlation coefficient and 95%CI is shown in each graph.

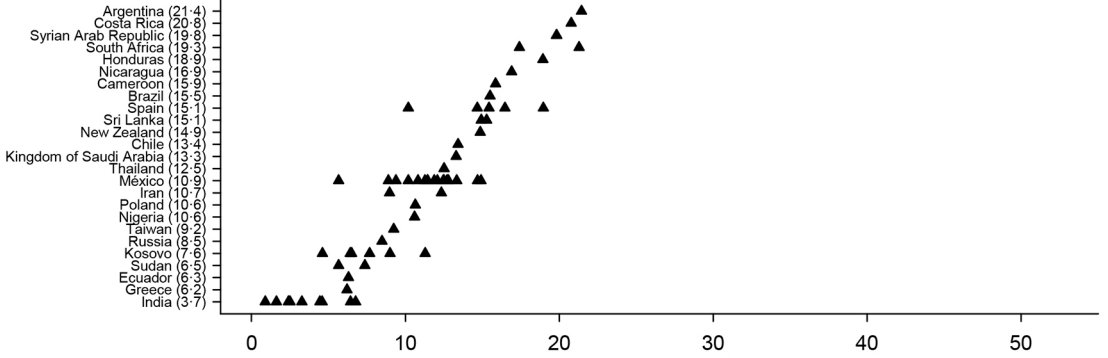
Web figure 1

Ranking of centres for the prevalence of a) current wheeze, b) asthma ever, c) hay fever ever and d) eczema ever in the adolescent group.

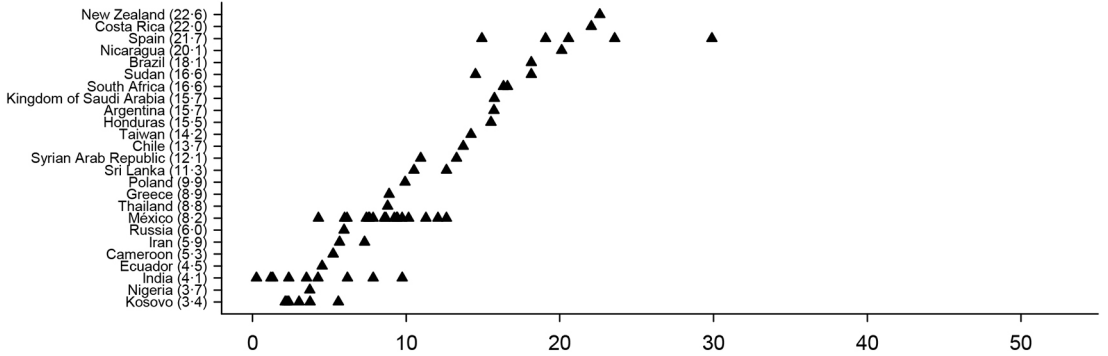
Web figure 2

Ranking of centres for the prevalence of a) current wheeze, b) asthma ever, c) hay fever ever and d) eczema ever in the children group.

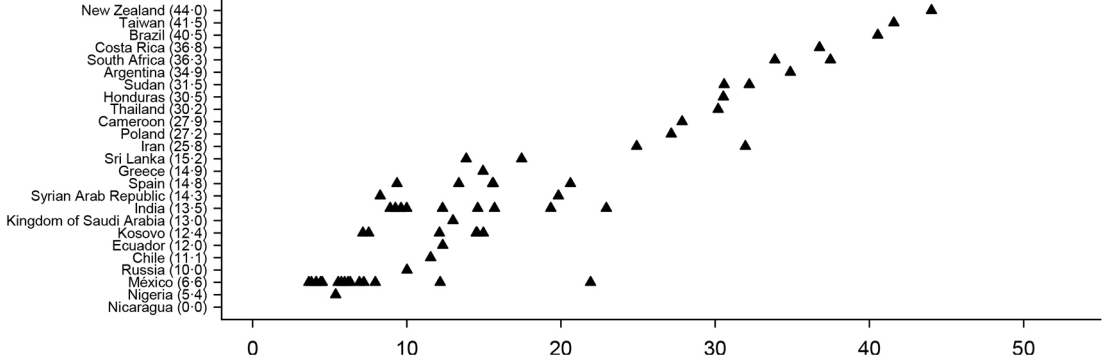
a) Current wheeze



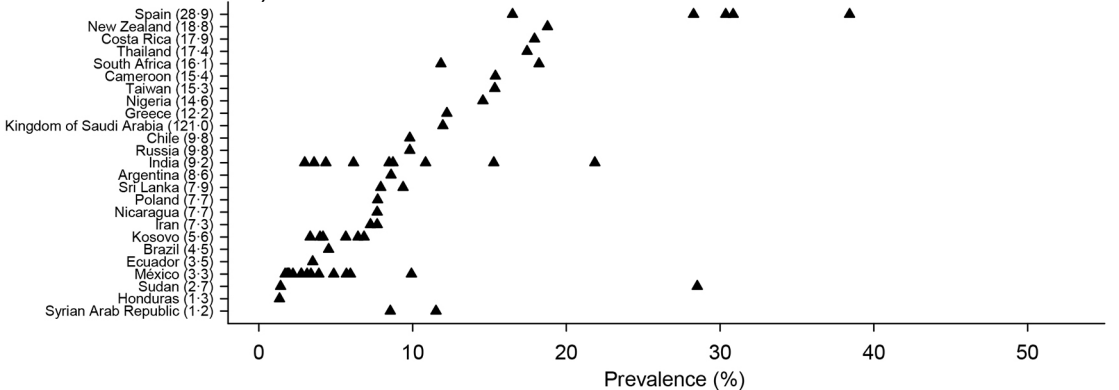
b) Asthma ever



c) Hay fever ever

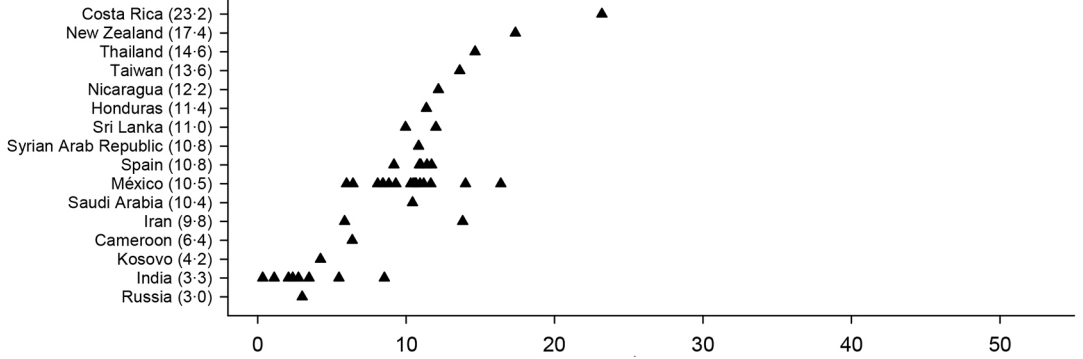


d) Eczema ever

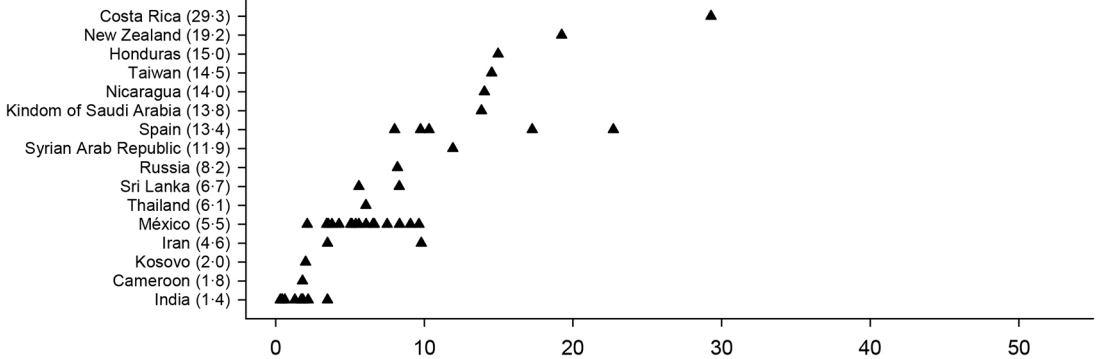


Prevalence (%)

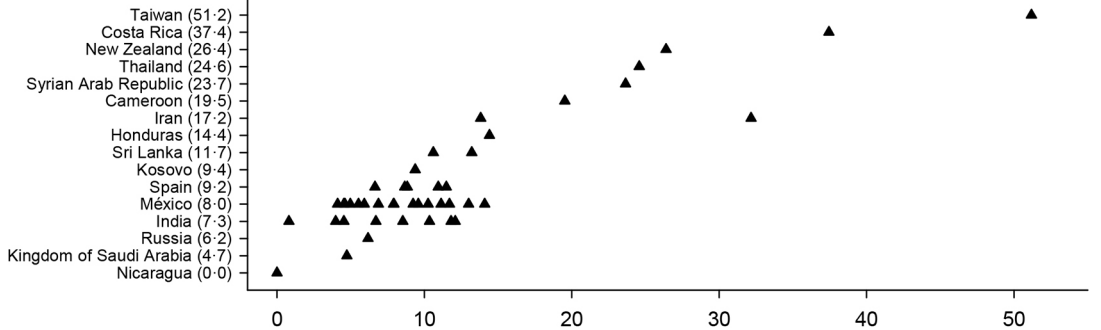
a) Current wheeze



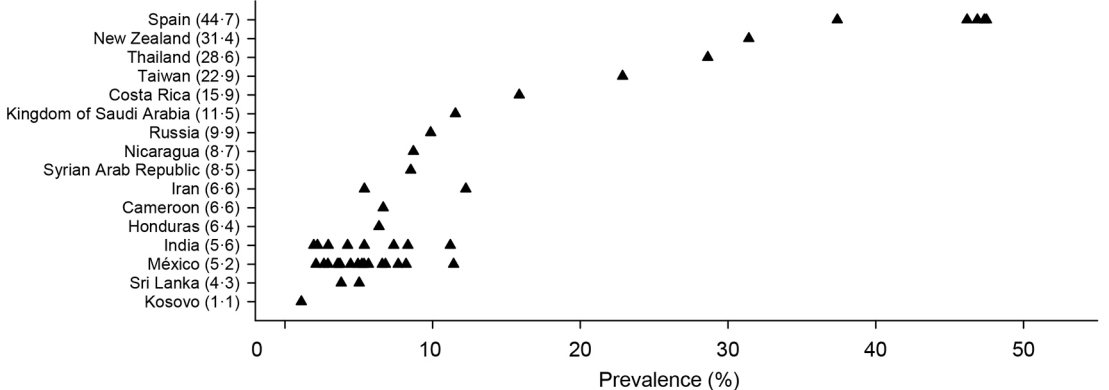
b) Asthma ever



c) Hay fever ever



d) Eczema ever



Prevalence (%)