

**Supplementary table | Hospital code, country, region, university/non-university, period, total births, total microcephaly cases, total controls, % controls within municipality, % microcephaly within municipality**

Country	City	Hospital Code	University Affiliation	Public / Private	Period analyzed	N Births	N microcephaly Cases	N Controls (non-malformed)	% Cases Within Municipality	% Controls Within Municipality	Lat	Long	Alt (in meters)
ARGENTINA	BUENOS AIRES	317	University	Public	2009-2014	8226	3	347	0.0	19.3	-34.72	-58.28	5
ARGENTINA	BUENOS AIRES	318	University	Public	2005	7180	7	229	14.3	100.0	-34.63	-58.40	5
ARGENTINA	BUENOS AIRES	322		Public	2005-2007	11032	3	89	66.7	100.0	-34.65	-58.52	5
ARGENTINA	BUENOS AIRES	324	University	Private	2005-2007	2554	1	67	0.0	100.0	-34.56	-58.50	5
ARGENTINA	BUENOS AIRES	330	University	Private	2005	908	0	26	-	100.0	-34.61	-58.42	5
ARGENTINA	BUENOS AIRES	332		Public	2005-2014	13644	1	306	100.0	78.2	-34.57	-58.45	5
ARGENTINA	ISIDRO CASANOVA	335	University	Public	2005-2007	4196	0	93	-	100.0	-34.71	-58.59	5
ARGENTINA	FLORENCIO VAREL	336		Public	2005	709	0	5	-	100.0	-34.82	-58.27	0
ARGENTINA	LANUS	337		Public	2008-2009	4583	2	54	0.0	100.0	-34.70	-58.40	5
ARGENTINA	GUALEGUAYCHU	403		Public	2005-2009	4542	0	180	-	88.1	-33.01	-58.53	11
ARGENTINA	ROSARIO	413		Public	2005-2012	32039	15	805	100.0	98.5	-33.16	-60.52	24
ARGENTINA	LA PLATA	416	University	Private	2005-2014	11365	2	233	0.0	83.2	-34.92	-57.95	10
ARGENTINA	BAHIA BLANCA	417		Private	2005-2006	1789	0	29	-	100.0	-38.72	-62.26	5
ARGENTINA	BAHIA BLANCA	418	University	Public	2005-2014	26225	6	423	50.0	68.0	-38.74	-62.22	5
ARGENTINA	GENERAL PICO	419*		Public	2009	68	0	-	-	100.0	-35.67	-63.77	103
ARGENTINA	TANDIL	421		Private	2005-2006	860	0	21	-	100.0	-37.32	-59.13	180
ARGENTINA	TANDIL	422	University	Public	2005-2006	1439	0	14	-	100.0	-37.31	-59.14	180

ARGENTINA	BAHIA BLANCA	423	University	Private	2005-2008	1906	0	16	-	100.0	-38.73	-62.23	5
ARGENTINA	CORDOBA	506*	University	Private	2005	190	0	-	-	100.0	-31.43	-64.19	387
ARGENTINA	CORDOBA	510		Public	2005-2010	33578	13	693	46.2	82.2	-31.42	-64.19	387
ARGENTINA	MENDOZA	601	University	Public	2005-2007	13446	1	295	0.0	100.0	-32.87	-69.14	757
ARGENTINA	SAN MARTIN	605		Public	2005	635	0	11	-	100.0	-33.08	-68.47	651
ARGENTINA	SAN LUIS	614		Public	2005-2012	15959	2	387	100.0	68.9	-33.30	-66.34	708
ARGENTINA	SAN LUIS	615			2005	427	0	2	-	100.0	-33.30	-66.33	708
ARGENTINA	VILLA MERCEDES	617	University	Public	2005	1099	0	12	-	100.0	-33.68	-65.45	485
ARGENTINA	POSADAS	704		Public	2005-2009	17096	2	256	100.0	100.0	-27.39	-55.89	50
ARGENTINA	SAN PEDRO	801*		Public	2009	382	0	-	-	100.0	-33.68	-59.66	450
ARGENTINA	SAN MIGUEL	803	University	Public	2005-2013	88796	36	1466	16.7	46.8	-26.83	-65.22	436
ARGENTINA	LA RIOJA	809	University	Public	2005-2006	2146	0	45	-	100.0	-29.16	-67.48	497
ARGENTINA	CATAMARCA	810	University	Public	2005	1612	0	14	-	100.0	-28.47	-65.78	543
ARGENTINA	ESQUEL	906		Public	2005	485	0	19	-	100.0	-42.92	-71.32	533
ARGENTINA	EL BOLSON	907		Public	2005-2014	3323	1	54	100.0	100.0	-41.95	-71.53	250
ARGENTINA	PUERTO MADRYN	908		Public	2005-2009	3064	0	26	-	100.0	-42.76	-65.04	10
ARGENTINA	NEUQUEN	913		Public	2005	1018	0	36	-	100.0	-38.95	-68.06	330
ARGENTINA	CRO RIVADAVIA	914		Public	2005	250	0	3	-	100.0	-23.25	-64.27	5
BOLIVIA	LA PAZ	B01	University	Public	2005-2014	39248	12	863	58.3	69.8	-16.50	-68.12	3600
BOLIVIA	LA PAZ	B07	University	Public	2005-2006	12642	2	245	100.0	100.0	-16.52	-68.15	3600
BOLIVIA	LA PAZ	B08	University	Private	2005	80	0	1	-	100.0	-16.17	-69.09	3600
BOLIVIA	LA PAZ	B09		Private	2007	402	0	20	-	100.0	-16.50	-68.11	3600
BOLIVIA	TARIJA	B10	University	Public	2005-2014	27950	4	421	50.0	62.8	-21.52	-64.73	1854

BRASIL	FLORIANOPOLIS	A04	University	Public	2005-2014	36215	6	838	66.7	50.7	-27.60	-48.55	24
BRASIL	RIO DE JANEIRO	A05		Public	2007-2014	9582	69	1959	49.3	67.7	-22.94	-43.17	5
BRASIL	SAO PAULO	A10		Public	2005-2010	5553	0	63	-	50.0	-23.60	-46.65	731
BRASIL	GOV VALADARES	A19		Private	2005	1103	0	6	-	100.0	-18.85	-41.94	167
BRASIL	PORTO ALEGRE	A25	University	Public	2005-2014	37404	11	1458	9.1	69.4	-30.04	-51.21	11
BRASIL	CAMPINAS	A33	University	Public	2005-2011	17473	25	985	48.0	73.5	-22.91	-47.06	693
BRASIL	BELO HORIZONTE	A39	University	Public	2005-2014	25623	45	2816	46.7	77.8	-19.93	-43.93	850
BRASIL	SALVADOR	A47	University	Public	2005-2009	12075	3	1523	33.3	94.0	-12.97	-38.50	5
BRASIL	JUAZEIRO NORTE	A48	University	Public	2010-2011	5062	0	5	-	100.0	-7.21	-39.31	377
BRASIL	CAMPINAS	A49*		Private	2005-2009	3401	0	-	-	100.0	-22.90	-47.07	693
BRASIL	FLORIANOPOLIS	A50	University	Public	2005-2014	16107	5	337	20.0	79.0	-27.60	-48.55	24
BRASIL	JOINVILLE	A51		Public	2005-2009	28289	1	655	100.0	100.0	-26.30	-48.85	123
BRASIL	JOAO PESSOA	A56		Public	2005-2014	67249	71	3769	43.7	45.6	-7.12	-34.87	5
BRASIL	MONTENEGRO	A57		Public	2005	78	0	1	-	100.0	-29.69	-51.48	34
BRASIL	PORTO ALEGRE	A59	University	Public	2005-2006	2889	7	141	28.6	100.0	-30.03	-51.21	10
BRASIL	BELO HORIZONTE	A60		Public	2005-2010	12694	2	610	50.0	75.0	-19.90	-43.95	850
BRASIL	PORTO VELHO	A61	University	Public	2007-2008	726	2	98	50.0	100.0	-8.74	-63.89	88
BRASIL	BELO HORIZONTE	A62	University	Public	2006-2008	8575	1	422	100.0	100.0	-19.93	-43.93	850
BRASIL	ANGRA DOS REIS	A64*		Private	2009	560	0	-	-	100.0	-23.01	-44.31	6
BRASIL	ANGRA DOS REIS	A65		Private	2009-2014	2762	0	38	-	81.6	-22.99	-44.26	6
BRASIL	CAMPO GRANDE	A66	University	Public	2009-2011	3997	1	63	100.0	96.4	-23.72	-46.58	532

CHILE	SANTIAGO	201	University	Public	2005-2014	14476	10	1345	0.0	5.2	-33.42	-70.65	600
CHILE	SANTIAGO	206	University	Private	2005-2006	2568	3	139	33.3	100.0	-33.44	-70.64	600
CHILE	VINA DEL MAR	211*	University	Public	2005-2007	1997	0	-	-	100.0	-33.00	-71.54	10
CHILE	RANCAGUA	217		Public	2005-2014	40833	45	1641	44.4	43.0	-34.16	-70.76	500
CHILE	LINARES	219		Public	2005-2014	24761	15	1176	60.0	44.4	-35.84	-71.59	178
CHILE	PUERTO MONTT	220	University	Public	2005-2014	34665	7	631	71.4	67.0	-41.47	-72.94	5
CHILE	SANTIAGO	221	University	Public	2005	4676	1	177	100.0	100.0	-33.58	-70.58	600
CHILE	SANTIAGO	223	University	Public	2005	1942	4	53	100.0	100.0	-33.46	-70.64	600
CHILE	TALCA	225	University	Public	2005-2012	27443	4	817	75.0	57.1	-35.43	-71.65	102
CHILE	CAUQUENES	226		Public	2005-2014, except 2007	4732	0	134	-	73.8	-35.97	-72.33	135
CHILE	CURICO	227		Public	2005-2014	34308	0	525	-	57.6	-34.99	-71.24	214
COLOMBIA	CARTAGENA	G07	University	Public	2011-2012	1411	2	144	50.0	100.0	10.41	-75.51	5
COLOMBIA	BOGOTA	G11	University	Private	2005-2014	26985	23	1205	95.7	92.5	4.82	-74.03	2600
COLOMBIA	BOGOTA	G12	University	Private	2005-2006	6900	1	108	0.0	100.0	4.57	-74.10	2600
COLOMBIA	MANIZALES	G13	University	Public	2005 and 2009-2011	5674	0	100	-	57.9	5.06	-75.50	2150
COLOMBIA	UBATE	G15	University	Public	2005	684	0	6	-	100.0	5.31	-73.82	2556
COLOMBIA	BOGOTA	G16		Private	2005-2009	8055	6	245	100.0	94.3	4.58	-74.21	2600
COLOMBIA	BOGOTA	G17*			2005	204	0	-	-	100.0	4.74	-74.02	0
COLOMBIA	BOGOTA	G18		Private	2005	314	0	18	-	100.0	4.62	-74.10	2600
COLOMBIA	CALI	G19		Public	2005-2014	58263	10	1011	50.0	74.2	3.43	-76.54	757

COLOMBIA	MANIZALES	G20	University	Public	2005-2009	6432	0	217	-	49.3	5.09	-75.53	2150
COLOMBIA	CHIQUINQUIRA	G21		Private	2005	327	0	4	-	100.0	5.61	-73.83	2711
ECUADOR	QUITO	E01	University	Public	2005-2011	20566	7	663	100.0	93.3	-0.21	-78.50	2850
ECUADOR	CHONE	E04		Public	2005-2010	8805	0	133	-	68.0	-0.71	-80.11	110
ECUADOR	BAHIA CARAQUEZ	E05*	University	Public	2005	175	0	-	-	100.0	-0.62	-80.43	6
ECUADOR	CANAR	E06	University	Public	2005-2007	858	4	90	0.0	100.0	-2.57	-78.94	3096
ECUADOR	CANAR	E07		Private	2005-2006	365	2	19	0.0	100.0	-2.56	-78.94	3096
ECUADOR	PORTOVIEJO	E08	University	Public	2005-2007	7659	2	142	0.0	100.0	-1.06	-80.45	30
ECUADOR	LOJA	E09	University	Public	2005-2010	14895	2	208	100.0	71.4	-4.01	-79.20	2200
ECUADOR	IBARRA	E10	University	Public	2005-2009	18950	4	607	25.0	64.4	0.34	-78.12	2620
ECUADOR	AZOGUES	E11	University	Public	2005-2007	2717	2	100	0.0	100.0	-2.74	-78.85	2883
ECUADOR	MACHALA	E12		Public	2005	2845	0	34	-	100.0	-3.26	-79.95	6
ECUADOR	QUITO	E13	University	Public	2010	4000	0	28	-	11.1	-0.24	-78.54	2850
PARAGUAY	ASUNCION	D04	University	Public	2010-2011	5237	1	54	0.0	36.0	-25.27	-57.58	77
URUGUAY	MONTEVIDEO	110		Public	2005-2008	7631	0	194	-	100.0	-34.89	-56.16	5
URUGUAY	MALDONADO	114		Public	2005-2008	1922	0	13	-	100.0	-34.79	-54.92	50
VENEZUELA	MARACAIBO	F01	University	Public	2005-2006	15140	2	361	50.0	100.0	10.67	-71.62	5
VENEZUELA	CORO	F02	University	Public	2005-2014	54317	13	1462	15.4	47.0	11.40	-69.68	16
VENEZUELA	CIUDAD BOLIVAR	F05	University	Public	2005-2007	9868	1	212	100.0	100.0	8.09	-63.55	20
VENEZUELA	MARACAIBO	F07	University	Public	2005-2007	5453	0	65	-	100.0	10.65	-71.71	10
Brazil	ARACAJU	A63	University		2006 and 2009-	6505	2	136	100.0	37.1	-10.91	-37.08	9

2012

Peru	LIMA	C05	2012-2014	19881	6	214	100.0	100.0	-12.08	-77.04	113
COLOMBIA	CALI	G22	2011-2014	18455	5	395	80.0	75.9	3.46	-76.53	986
COLOMBIA	CALI	G24	2011-2014	4767	4	254	50.0	73.9	3.37	-76.53	973
COLOMBIA	CALI	G25	2012-2014	9118	1	121	100.0	95.0	3.45	-76.53	992
COLOMBIA	PEREIRA	G26	2012-2014	4896	1	233	0.0	84.5	4.81	-75.68	1454
<b>TOTAL</b>					<b>552</b>	<b>39027</b>					

\*Monitor hospitals do not collect non-malformed control data and are not included in case-control analyses.

Lat = latitude; Long = longitude; Alt = altitude