

Table 1: Relative risk of dying from ovarian cancer in towns situated near pollutant industries, by industrial group, estimated using BYM and Poisson mixed regression models.

Industrial group	BYM model												Mixed model							
	2km			3km			4km			5km			2km		3km		4km		5km	
	Obs ^a	RR ^b	95%CrI ^c	Obs ^a	RR ^b	95%CrI ^c	Obs ^a	RR ^b	95%CrI ^c	Obs ^a	RR ^b	95%CrI ^c	RR ^b	95%CI ^d						
All sectors	4587	1.01	0.97-1.05	8456	1.05	1.01-1.10	10224	1.06	1.02-1.11	12365	1.07	1.02-1.12	1.01	0.98-1.05	1.04	1.01-1.08	1.06	1.01-1.10	1.06	1.02-1.11
Combustion installations	221	0.93	0.80-1.08	326	1.02	0.90-1.15	920	1.02	0.93-1.11	1372	1.05	0.97-1.14	0.93	0.81-1.06	1.00	0.89-1.12	1.00	0.93-1.08	1.03	0.96-1.11
Refineries and coke ovens	145	1.20	0.95-1.50	155	1.30	1.04-1.60	386	1.22	1.04-1.42	741	1.20	1.08-1.34	1.19	1.00-1.43	1.26	1.06-1.49	1.16	1.03-1.31	1.18	1.07-1.29
Production and processing of metals	616	0.98	0.89-1.08	1196	1.01	0.93-1.09	1811	1.03	0.96-1.10	2745	1.05	0.99-1.13	0.99	0.90-1.08	1.01	0.95-1.09	1.03	0.97-1.09	1.06	0.99-1.12
Galvanization	218	1.12	0.96-1.29	486	0.99	0.88-1.10	682	0.99	0.90-1.10	760	1.01	0.92-1.11	1.13	0.99-1.30	0.97	0.88-1.08	0.98	0.90-1.08	1.00	0.91-1.09
Surface treatment of metals and plastic	1386	0.99	0.92-1.06	3211	1.02	0.97-1.08	3765	1.03	0.97-1.09	4901	1.07	1.01-1.13	1.00	0.94-1.06	1.03	0.98-1.08	1.03	0.98-1.08	1.07	1.01-1.13
Mining industry	43	1.38	0.99-1.84	109	1.00	0.81-1.20	178	1.05	0.89-1.22	317	1.02	0.90-1.14	1.39	1.03-1.88	0.99	0.82-1.20	1.05	0.90-1.22	1.01	0.90-1.13
Cement and lime	68	0.83	0.64-1.05	291	0.90	0.78-1.02	591	0.90	0.82-1.00	799	0.95	0.86-1.04	0.83	0.66-1.06	0.91	0.80-1.03	0.92	0.84-1.00	0.97	0.89-1.05
Glass and mineral fibers	296	1.13	0.97-1.30	607	1.08	0.97-1.19	808	1.06	0.96-1.16	1166	1.15	1.05-1.25	1.08	0.96-1.22	1.05	0.96-1.15	1.03	0.95-1.12	1.11	1.03-1.19
Ceramic	499	1.03	0.94-1.14	852	1.06	0.98-1.15	1151	1.10	1.02-1.18	1983	1.08	1.01-1.15	1.04	0.95-1.13	1.06	0.98-1.14	1.10	1.03-1.17	1.08	1.02-1.15
Organic chemical industry	453	1.00	0.89-1.11	987	1.00	0.92-1.08	1562	1.07	1.00-1.15	3477	1.08	1.01-1.16	1.01	0.91-1.11	1.00	0.93-1.07	1.07	1.00-1.14	1.07	1.01-1.13
Inorganic chemical industry	203	1.04	0.89-1.21	1301	1.04	0.96-1.13	1521	1.07	0.99-1.16	1754	1.08	1.00-1.16	1.05	0.91-1.21	1.03	0.96-1.11	1.06	0.99-1.14	1.07	1.00-1.14
Fertilizers	160	1.22	1.00-1.46	181	1.24	1.03-1.47	406	1.16	1.02-1.31	550	1.17	1.04-1.30	1.24	1.04-1.47	1.25	1.06-1.47	1.16	1.04-1.30	1.17	1.06-1.29
Biocides	29	0.88	0.58-1.25	149	0.92	0.75-1.10	183	0.95	0.80-1.13	196	0.96	0.80-1.12	0.88	0.61-1.27	0.95	0.80-1.12	0.99	0.84-1.15	0.98	0.85-1.15
Pharmaceutical products	258	0.96	0.83-1.10	708	1.06	0.96-1.17	1004	1.06	0.96-1.16	1220	1.10	1.00-1.20	0.99	0.87-1.12	1.08	1.00-1.18	1.08	1.00-1.17	1.12	1.03-1.21
Explosives and pyrotechnics	90	0.82	0.65-1.01	204	0.95	0.82-1.10	712	1.04	0.93-1.16	930	1.04	0.94-1.14	0.81	0.66-1.01	0.92	0.80-1.06	1.04	0.94-1.14	1.02	0.94-1.11
Hazardous waste	152	1.17	0.97-1.39	339	1.09	0.95-1.23	759	1.05	0.95-1.15	1400	1.10	1.01-1.20	1.15	0.97-1.36	1.08	0.96-1.21	1.04	0.96-1.14	1.08	1.00-1.16
Non-hazardous waste	104	0.89	0.71-1.09	451	1.01	0.90-1.13	577	1.06	0.95-1.17	1069	1.05	0.96-1.14	0.88	0.72-1.07	1.02	0.92-1.13	1.06	0.97-1.17	1.05	0.97-1.14
Disposal or recycling of animal waste	78	1.25	0.98-1.55	241	1.04	0.90-1.19	503	1.08	0.97-1.20	1288	1.12	1.02-1.22	1.22	0.97-1.52	1.01	0.88-1.15	1.06	0.96-1.16	1.09	1.01-1.18
Urban waste-water treatment plants	166	1.08	0.90-1.27	690	1.10	1.00-1.20	1104	1.09	1.01-1.18	4792	1.06	0.99-1.14	1.08	0.92-1.26	1.11	1.02-1.21	1.12	1.04-1.20	1.06	0.99-1.12
Paper and wood production	511	0.98	0.86-1.10	771	1.07	0.97-1.17	1526	1.12	1.03-1.21	1860	1.12	1.04-1.21	0.97	0.87-1.08	1.05	0.97-1.15	1.10	1.02-1.18	1.10	1.03-1.18
Pre-treatment or dyeing of textiles	92	0.99	0.79-1.23	119	1.01	0.82-1.22	128	1.04	0.85-1.25	148	0.95	0.79-1.13	1.02	0.83-1.26	1.03	0.86-1.24	1.06	0.89-1.27	0.99	0.84-1.17
Tanning of hides and skins	21	1.04	0.62-1.58	25	1.11	0.70-1.63	29	1.25	0.81-1.80	30	1.25	0.81-1.78	1.12	0.73-1.71	1.18	0.79-1.75	1.32	0.91-1.90	1.31	0.91-1.88
Food and beverage sector	845	1.02	0.94-1.11	2729	1.05	0.98-1.11	3922	1.07	1.02-1.13	5371	1.10	1.04-1.16	1.02	0.94-1.09	1.03	0.97-1.08	1.06	1.01-1.11	1.08	1.03-1.14
Aquiculture	2	0.76	0.10-2.15	2	0.60	0.08-1.70	2	0.61	0.08-1.71	6	1.25	0.45-2.45	0.73	0.18-2.92	0.58	0.14-2.32	0.58	0.14-2.33	1.19	0.53-2.66
Surface treatment using organic solvents	353	0.84	0.74-0.94	756	0.96	0.87-1.04	1374	0.99	0.92-1.06	2187	1.04	0.97-1.12	0.85	0.76-0.95	0.95	0.87-1.03	0.99	0.92-1.05	1.05	0.98-1.11
Production of carbon or electro-graphite	0	-	---	1	3.38	0.11-12.75	2	1.84	0.23-5.19	158	1.29	0.99-1.66	-	---	3.10	0.44-22.09	1.68	0.42-6.77	1.28	1.07-1.53
Ship building	305	0.96	0.81-1.13	449	0.97	0.84-1.11	476	0.97	0.84-1.11	490	0.96	0.84-1.10	0.98	0.87-1.11	0.97	0.87-1.08	0.97	0.88-1.08	0.97	0.88-1.08

^aObserved deaths.

^bRRs adjusted for population size, percentage of illiteracy, farmers and unemployed persons, average persons per household, and mean income

^c95% credible interval.

^d95% confidence interval.