Supplementary material

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Table 8. Relative Risks (RR) and 95% Credible Intervals (95%CrI) for mortality from cancers analyzed in the study in municipalities situated ≤5 km from chemical installations, estimated using spatial regression models and Integrated Nested Laplace Approximation (INLA) as a Bayesian inference tool, statistically significant only in women, by chemical industry category. Significant and the marginal associations (those with a value of 0.99 in the lower limit of the 95% credible interval) are shown.

Table 9. Relative risks (RRs) and 95% credible intervals (95%CrI) for excess mortality from colorectal, gallbladder, pleural, ovarian and breast cancers in municipalities situated at ≤5 km from chemical installations using spatial regression models including altitude and

latitude of the municipalities, and Integrated Nested Laplace Approximation (INLA) as Bayesian inference tool.

Figure 1. Map of the regional and provincial administrative boundaries in Spain

Figure 2. Location of chemical industries by category

Figure 3. Relative risks and 95% Credible Intervals of dying from cancers analyzed in municipalities situated at a distance of less than 1, 2, ..., 15 km from chemical installations, estimated using spatial regression models and Integrated Nested Laplace Approximation (INLA) as Bayesian inference tool in both sexes, men and women.

Table 1. Chemical Industries PRTR-Spain codes by Industrial Category.

PRTR code	CHEMICAL SECTOR	CATEGORY
4a	**CHEMICAL FACILITIES FOR ORGANIC CHEMICAL TRANSFORMATION OF BASE**	**1.Organic Industries**
4a.i	Production of simple hydrocarbons	
4a.ii	Production of oxygen-containing hydrocarbons	
4a.iii	Production of sulfurous hydrocarbons	
4a.iv	Production of nitrogenous hydrocarbons	
4a.v	Production of phosphorous-containing hydrocarbons	
4a.vi	Production of halogenic hydrocarbons	
4a.vii	Production of organometallic compounds	
4a.viii	Production of basic plastic materials (polymers, synthetic fibres)	
4a.ix	Production of synthetic rubbers	
4a.x	Production of dyes and pigments	
4ax.i	Production of surface-active agents and surfactants	
4b	**CHEMICAL FACILITIES FOR INORGANIC CHEMICAL TRANSFORMATION OF BASE**	**2. Inorganic industries**
4b.i	Production of gases	
4b.ii	Production of acids	
4b.iii	Production of bases	
4b.iv	Production of salts	
4b.v	Production of no metals, metal oxides or other inorganic compounds	
4c	**CHEMICAL PRODUCTION OF PHOSPHOROUS, NITROGEN, OR POTASSIUM -BASED FERTILISERS**	**3.Fertilizer Industries**
4d	**CHEMICAL PRODUCTION OF BASIC PLANT HEALTH PRODUCTS AND OF BIOCIDES**	**4.Biocides Industries**
4e	**INSTALLATIONS USING A CHEMICAL OR BIOLOGICAL PROCESS IN THE PRODUCTION OF BASIC PHARMACEUTICAL PRODUCTS**	**5.Pharmaceutical Industries**
4f	**CHEMICAL FACILITIES OF EXPLOSIVES AND PYROTECHNIC PRODUCTS (Manufacture of explosives and pyrotechnic products)**	**6.Eplosives and pyrotechnic industries**
4f.1	Production of explosives	
4f.2	Production of pyrotechnic products	

Table 2. List of the tumours analyzed and their codes according to the International Classification of Diseases (ICD9 and ICD10).

	TUMOUR	CIE9	CIE10
1	Malignant neoplasm of oral cavity and pharynx	140-149	C00-C14
2	Malignant neoplasm of esophagus	150	C15
3	Malignant neoplasm of stomach	151	C16
4	Malignant neoplasm of small intestine	152	C17
5	Malignant neoplasm of colorectal	153, 154, 159.0	C18-C21
6	Malignant neoplasm of liver	155.0	C22.0
7	Malignant neoplasm of gallbladder	156	C23-C24
8	Malignant neoplasm of pancreas	157	C25
9	Malignant neoplasm of peritoneus	158	C45.1, C48
10	Malignant neoplasm of nasal	160	C30-C31
11	Malignant neoplasm of larynx	161	C32
12	Malignant neoplasm of lung	162	C33-C34
13	Malignant neoplasm of pleura	163	C38.4, C45.0
14	Malignant neoplasm of bones	170	C40-C41
15	Malignant neoplasm of connective and soft tissue	171	C49
16	Malignant melanoma of melanoma	172	C43
17	Other malignant neoplasm of skin	173	C44
18	Malignant neoplasm of breast	174	C50
19	Malignant neoplasm of vulva and vagina	184	C51, C52
20	Malignant neoplasm of uterus	179-182	C53-C55
21	Malignant neoplasm of ovary	183	C56, C57
22	Malignant neoplasm of prostate	185	C61
23	Malignant neoplasm of testis	186	C62
24	Malignant neoplasm of bladder	188	C67
25	Malignant neoplasm of kidney	189	C64-C66, C68
26	Malignant neoplasm of brain	191	C71
27	Malignant neoplasm of other central nervous system	192	C70, C72
28	Malignant neoplasm of thyroid gland	193	C73
29	Non-Hodkin´s Lymphoma	200, 202	C82-C85, C96,C86
30	Hodkin´s Lymphoma	201	C81
31	Myeloma	203	C90
32	Leukaemia	204-208	C91-C95

Table 3. Agents classified as carcinogenic or probably/possibly carcinogenic to humans by the International Agency for Research on Cancer and which are released by some chemical industry installations according to the PRTR register.

Group	Definition	Agents
1	Carcinogenic to humans	Arsenic, Cadmium, Chromium, Dioxins, Trichloroethylene, Vinyl Chloride, Benzene, Ethylene Oxide, Asbestos, Benzene Pyrene, Nickel Compounds, Polycyclic Aromatic Hydrocarbons, PM_{10}
2a	Probably carcinogenic to humans	Polychlorinated Biphenyls, Tetrachloroethylene, Bromo diphenyl ethers (PBDEs)
2b	Possibly carcinogenic to humans	Lead, DDT, 1,2 Dichloroethane, Hexachlorobenzene

Table 4. Distribution of chemical industries by region and industrial category in Spain

	Organic chemistry		Inorganic Chemistry		Fertilisers		Phytosanitaries		Pharmaceutics		Exp & Pryrothecnics	
	N	%	n	%	n	%	n	%	n	%	n	%
Andalucia	8	4,12	6	7,79	4	16,00	2	10,53	0	0,00	13	16,05
Aragón	14	7,22	10	12,99	2	8,00	5	26,32	2	3,28	2	2,47
P. de Asturias	1	0,52	2	2,60	1	4,00	0	0,00	2	3,28	3	3,70
Islas Baleares	0	0,00	0	0,00	0	0,00	0	0,00	0	0,00	1	1,23
Islas Canarias	0	0,00	1	1,30	0	0,00	0	0,00	0	0,00	7	8,64
Cantrabria	4	2,06	6	7,79	0	0,00	0	0,00	0	0,00	0	0,00
Castilla-La Mancha	6	3,09	2	2,60	1	4,00	0	0,00	2	3,28	5	6,17
Castilla y León	9	4,64	1	1,30	1	4,00	0	0,00	3	4,92	5	6,17
Cataluña	104	53,61	22	28,57	7	28,00	10	52,63	40	65,57	1	1,23
C. Valenciana	7	3,61	11	14,29	6	24,00	1	5,26	0	0,00	22	27,16
Extremadura	1	0,52	1	1,30	0	0,00	0	0,00	0	0,00	1	1,23
Galicia	5	2,58	4	5,19	0	0,00	1	5,26	0	0,00	6	7,41
C. A. de Madrid	8	4,12	2	2,60	0	0,00	0	0,00	8	13,11	1	1,23
R. de Murcia	3	1,55	0	0,00	1	4,00	0	0,00	3	4,92	8	9,88
C. Foral de Navarra	4	2,06	0	0,00	1	4,00	0	0,00	0	0,00	1	1,23
País Vasco	20	10,31	9	11,69	1	4,00	0	0,00	1	1,64	5	6,17
TOTAL	194	100	77	100	25	100	19	100	61	100	81	100

Table 5. Number of municipalities by population size (urban, semi-urban and rural) exposed to chemical industry sector and its categories.

Chemical industry categories	Numbres of towns exposed	Urbans	Semi-urbans	Rurals
All Sector	575	213	184	178
Organic ind.	118	38	45	35
Inorganic ind.	79	29	25	25
Fertilizers ind.	33	8	6	19
Biocides ind.	13	7	2	4
Pharmaceutical ind.	32	10	6	16
Explosives and pyrothecnic	138	31	55	52

Table 6. Relative Risks (RR) and 95% Credible Intervals (95%CrI) for mortality from cancers analyzed in the study in municipalities situated ≤5 km from chemical installations, estimated using spatial regression models and Integrated Nested Laplace Approximation (INLA) as a Bayesian inference tool for both men and women, by chemical industry category. Significant and the marginal associations (those with a value of 0.99 in the lower limit of the 95% credible interval) are marked in bold.

			BOTH			MEN			WOMEN		
TUMOR	**Chemical Industry category**	**N[a]**	**Obs[b]**	**RR**	**Crl95%**	**Obs**	**RR**	**Crl95%**	**Obs**	**RR**	**Crl95%**
Oral and pharynx	**All Sector**	575	11144	1.03	0.97-1.09	9157	1.02	0.96-1.09	1987	1.05	0.94-1.17
	Organic Ind.	118	6630	1.01	0.93-1.11	5471	1.01	0.91-1.12	1159	1.01	0.87-1.18
	Inorganic Ind.	79	2855	0.99	0.89-1.11	2303	1.01	0.89-1.14	552	0.92	0.75-1.13
	Fertiliser Ind.	33	851	1.15	0.96-1.36	717	1.14	0.94-1.37	134	1.33	1.01-1.73
	Biocides	13	359	1.01	0.76-1.33	285	0.98	0.72-1.32	74	1.17	0.65-1.94
	Pharmaceutical Ind.	32	74	0.94	0.80-1.09	63	0.92	0.77-1.08	11	0.99	0.75-1.29
	Explosives & Pyrothecnic	138	375	**1.10**	**0.99-1.23**	318	1.09	0.98-1.22	57	1.13	0.94-1.35
Esophagus	**All Sector**	575	9009	1.02	0.96-1.08	7781	1.01	0.94-1.08	1228	1.05	0.90-1.23
	Organic Ind.	118	5334	1.03	0.94-1.13	4634	1.01	0.91-1.12	700	1.16	0.93-1.44
	Inorganic Ind.	79	2458	0.92	0.82-1.04	2093	0.92	0.82-1.05	365	0.95	0.71-1.25
	Fertiliser Ind.	33	648	1.05	0.86-1.25	565	0.98	0.80-1.19	83	1.32	0.87-1.97
	Biocides	13	221	1.05	0.77-1.41	186	1.05	0.75-1.44	35	1.03	0.47-2.06
	Pharmaceutical Ind.	32	60	0.98	0.83-1.15	50	0.97	0.82-1.15	10	0.94	0.63-1.38
	Explosives & Pyrothecnic	138	288	**1.14**	**1.00-1.24**	253	**1.11**	**0.99-1.24**	35	1.12	0.86-1.45
Stomach	**All Sector**	575	30322	**1.09**	**1.04-1.15**	18546	**1.12**	**1.06-1.19**	11776	1.04	0.98-1.11
	Organic Ind.	118	17410	**1.14**	**1.05-1.23**	10635	**1.18**	**1.08-1.29**	6775	10.7	0.98-1.17
	Inorganic Ind.	79	8431	**1.09**	**0.99-1.20**	5147	**1.11**	**1.00-1.23**	3284	1.03	0.92-1.15
	Fertiliser Ind.	33	2373	**1.16**	**1.00-1.34**	1440	**1.26**	**1.08-1.48**	933	1.01	0.85-1.20
	Biocides	13	891	1.07	0.86-1.34	557	1.20	0.94-1.53	334	0.94	0.69-1.25
	Pharmaceutical Ind.	32	179	1.06	0.93-1.22	120	1.08	0.93-1.25	59	1.03	0.88-1.20
	Explosives & Pyrothecnic	138	1038	1.03	0.95-1.11	647	1.05	0.96-1.15	391	1.01	0.91-1.12
Small Instestine	**All Sector**	575	649	1.00	0.83-1.19	362	1.04	0.83-1.30	287	0.97	0.76-1.25
	Organic Ind.	118	383	0.89	0.69-1.16	219	0.95	0.69-1.29	164	0.83	0.58-1.17
	Inorganic Ind.	79	174	0.91	0.64-1.28	97	0.94	0.60-1.43	77	0.86	0.55-1.36
	Fertiliser Ind.	33	52	0.55	0.28-0.99	27	0.35	0.12-0.87	25	0.76	0.34-1.52
	Biocides	13	12	1.19	0.44-2.73	4	0.93	0.19-3.20	8	1.47	0.40-4.20
	Pharmaceutical Ind.	32	5	0.97	0.61-1.50	2	1.25	0.71-2.09	3	0.68	0.32-1.32
	Explosives & Pyrothecnic	138	23	1.08	0.79-1.45	13	1.00	0.68-1.45	10	1.21	0.81-1.78
Colorectal	**All Sector**	575	61405	**1.08**	**1.04-1.11**	34615	**1.09**	**1.05-1.13**	26790	**1.06**	**1.03-1.10**
	Organic Ind.	118	35040	**1.09**	**1.05-1.15**	19804	**1.11**	**1.05-1.18**	15236	**1.08**	**1.02-1.14**
	Inorganic Ind.	79	17036	**1.08**	**1.02-1.14**	9491	**1.06**	**0.99-1.13**	7545	**1.12**	**1.05-1.19**
	Fertiliser Ind.	33	4904	**1.08**	**0.99-1.18**	2749	**1.13**	**1.02-1.25**	2155	1.04	0.94-1.15
	Biocides	13	1934	0.99	0.86-1.13	1089	1.03	0.86-1.21	845	0.94	0.78-1.13
	Pharmaceutical Ind.	32	334	1.07	0.98-1.15	190	**1.10**	**1.00-1.21**	144	1.03	0.94-1.13
	Explosives & Pyrothecnic	138	2157	**1.05**	**1.00-1.10**	1292	**1.08**	**1.02-1.15**	865	1.04	0.98-1.10

Liver	**All Sector**	575	13097	**1.09**	**1.01-1.17**	9522	**1.12**	**1.04-1.21**	3575	1.04	0.92-1.17
	Organic Ind.	118	6928	**1.13**	**1.01-1.26**	5086	**1.08**	**1.06-1.33**	1842	1.05	0.88-1.25
	Inorganic Ind.	79	4397	1.06	0.93-1.22	3117	1.08	0.94-1.24	1280	1.04	0.84-1.29
	Fertiliser Ind.	33	887	**1.29**	**1.06-1.59**	651	**1.39**	**1.13-1.70**	236	1.12	0.80-1.54
	Biocides	13	402	1.24	0.92-1.68	305	1.25	0.98-1.72	97	1.36	0.83-2.15
	Pharmaceutical Ind.	32	81	0.98	0.82-1.19	57	1.01	0.84-1.23	24	0.88	0.66-1.18
	Explosives & Pyrothecnic	138	402	1.09	0.97-1.23	306	1.11	0.98-1.26	96	1.09	0.89-1.33
Gallbladder	**All Sector**	575	6649	**1.09**	**1.02-1.20**	2308	**1.25**	**1.13-1.39**	4341	1.02	0.93-1.11
	Organic Ind.	118	3837	**1.14**	**1.03-1.23**	1294	**1.20**	**1.03-1.40**	2543	**1.13**	**1.00-1.27**
	Inorganic Ind.	79	1891	0.98	0.86-1.13	658	1.12	0.92-1.37	1233	0.89	0.75-1.05
	Fertiliser Ind.	33	459	1.12	0.92-1.36	168	**1.39**	**1.05-1.81**	291	0.98	0.77-1.23
	Biocides	13	208	1.08	0.74-1.54	89	1.02	0.53-1.81	119	1.09	0.69-1.66
	Pharmaceutical Ind.	32	37	1.17	0.98-1.41	12	**1.47**	**1.14-1.87**	25	1.01	0.80-1.26
	Explosives & Pyrothecnic	138	217	1.05	0.93-1.19	87	**1.19**	**0.99-1.42**	130	0.99	0.85-1.14
Pancreas	**All Sector**	575	21369	**1.04**	**0.99-1.08**	11280	**1.05**	**1.00-1.11**	10089	1.02	0.96-1.07
	Organic Ind.	118	12091	1.04	0.98-1.11	6481	**1.09**	**1.01-1.17**	5610	0.99	0.91-1.07
	Inorganic Ind.	79	5996	1.04	0.96-1.12	3100	1.01	0.92-1.11	2896	**1.09**	**0.99-1.20**
	Fertiliser Ind.	33	1763	1.03	0.91-1.15	915	1.06	0.92-1.22	848	1.00	0.86-1.17
	Biocides	13	643	1.06	0.87-1.28	344	1.15	0.90-1.46	299	0.96	0.71-1.26
	Pharmaceutical Ind.	32	117	1.09	0.98-1.20	63	1.04	0.92-1.18	54	1.12	0.98-1.28
	Explosives & Pyrothecnic	138	759	1.05	0.98-1.13	377	1.07	0.98-1.16	382	1.05	0.96-1.15
Peritoneus	**All Sector**	575	1205	1.04	0.89-1.20	553	1.30	1.06-1.60	652	0.88	0.73-1.06
	Organic Ind.	118	670	1.09	0.89-1.34	306	**1.33**	**0.99-1.76**	364	0.94	0.73-1.20
	Inorganic Ind.	79	365	1.00	0.76-1.31	168	1.19	0.80-1.74	197	0.88	0.61-1.23
	Fertiliser Ind.	33	89	1.32	0.90-1.88	43	1.46	0.85-2.40	46	1.33	0.85-2.01
	Biocides	13	48	0.61	0.20-1.50	20	0.73	0.15-2.52	28	0.53	0.11-1.83
	Pharmaceutical Ind.	32	4	0.76	0.49-1.13	2	0.92	0.50-1.58	2	0.63	0.35-1.06
	Explosives & Pyrothecnic	138	29	1.04	0.80-1.33	14	**1.43**	**1.00-1.97**	15	0.70	0.49-0.98
Nasal	**All Sector**	575		0.93	0.75-1.16	338	0.97	0.75-1.26	149	0.81	0.57-1.17
	Organic Ind.	118	290	1.03	0.77-1.37	203	1.08	0.76-1.53	87	0.85	0.54-1.35
	Inorganic Ind.	79	131	0.81	0.54-1.20	92	0.96	0.60-1.50	39	0.50	0.21-1.08
	Fertiliser Ind.	33	33	0.96	0.50-1.71	25	1.07	0.49-2.13	8	0.75	0.24-1.92
	Biocides	13	14	0.00	0,00	10	1.00	0,00	4	0.01	0,00
	Pharmaceutical Ind.	32	0	0.95	0.56-1.55	0	0.66	0.31-1.29	0	1.59	0.75-3.12
	Explosives & Pyrothecnic	138	19	1.04	0.72-1.48	8	1.14	0.73-1.73	11	0.84	0.44-1.51
Larynx	**All Sector**	575	8734	1.00	0.94-1.07	8409	1.00	0.94-1.07	325	0.95	0.74-1.23
	Organic Ind.	118	5216	0.95	0.85-1.05	5041	0.95	0.86-1.06	175	0.87	0.61-1.22
	Inorganic Ind.	79	2251	0.99	0.87-1.12	2152	0.99	0.87-1.12	99	0.88	0.54-1.39
	Fertiliser Ind.	33	690	1.10	0.91-1.32	668	1.09	0.89-1.31	22	1.21	0.63-2.16
	Biocides	13	245	0.86	0.61-1.18	232	0.85	0.60-1.18	13	1.09	0.22-3.77
	Pharmaceutical Ind.	32	63	0.98	0.82-1.16	61	0.97	0.81-1.16	2	1.14	0.62-1.99
	Explosives & Pyrothecnic	138	269	1.02	0.92-1.14	255	1.02	0.91-1.14	14	1.03	0.68-1.54
Lung	**All Sector**	575	91436	**1.05**	**1.02-1.08**	80494	**1.06**	**1.03-1.10**	10610	0.96	0.90-1.02
	Organic Ind.	118	52913	**1.07**	**1.02-1.12**	46952	**1.09**	**1.04-1.15**	5961	0.95	0.86-1.04
	Inorganic Ind.	79	24496	1.04	0.98-1.10	21049	1.04	0.97-1.11	3447	1.00	0.89-1.12
	Fertiliser Ind.	33	7512	**1.16**	**1.06-1.26**	6682	**1.17**	**1.06-1.28**	830	0.97	0.81-1.15
	Biocides	13	2998	1.18	0.94-1.24	2672	1.11	0.95-1.29	326	0.90	0.67-1.19
	Pharmaceutical Ind.	32	540	1.05	0.97-1.15	494	**1.08**	**0.99-1.18**	46	0.86	0.74-1.00
	Explosives & Pyrothecnic	138	2977	0.98	0.93-1.03	2645	0.98	0.93-1.03	332	1.00	0.90-1.11
Pleura	**All Sector**	575	1119	**1.43**	**1.19-1.71**	814	**1.49**	**1.21-1.85**	305	**1.31**	**1.00-1.73**
	Organic Ind.	118	573	**1.42**	**1.10-1.82**	407	**1.52**	**1.14-2.04**	166	1.24	0.86-1.78
	Inorganic Ind.	79	328	**1.59**	**1.19-2.13**	243	**1.56**	**1.10-2.20**	85	1.38	0.87-2.17
	Fertiliser Ind.	33	114	**2.27**	**1.49-3.41**	86	**2.47**	**1.51-3.94**	28	**1.95**	**1.04-3.53**
	Biocides	13	55	0.78	0.25-2.01	43	0.85	0.23-2.52	12	0.61	0.06-3.40
	Pharmaceutical Ind.	32	5	1.32	0.87-1.97	4	1.21	0.73-1.97	1	1.47	0.81-2.56
	Explosives & Pyrothecnic	138	44	1.05	0.75-1.44	31	1.11	0.75-1.59	13	1.18	0.73-1.86
Bones	**All Sector**	575	1528	0.95	0.84-1.08	873	0.94	0.80-1.10	655	0.97	0.81-1.17
	Organic Ind.	118	913	0.90	0.76-1.07	512	0.89	0.71-1.12	401	0.92	0.71-1.18
	Inorganic Ind.	79	377	1.03	0.82-1.28	212	1.06	0.78-1.41	165	0.97	0.69-1.36
	Fertiliser Ind.	33	122	1.24	0.90-1.67	75	0.98	0.62-1.53	47	**1.59**	**1.03-2.37**
	Biocides	13	47	1.03	0.50-1.92	23	1.16	0.48-2.46	24	0.84	0.23-2.33

	Pharmaceutical Ind.	32	11	0.87	0.62-1.19	8	1.17	0.79-1.70	3	0.47	0.23-0.86
	Explosives & Pyrothecnic	138	58	0.86	0.69-1.07	43	0.77	0.57-1.03	15	0.98	0.72-1.33
Connective and soft tissue	**All Sector**	575	2197	1.09	0.98-1.22	1137	**1.15**	**1.01-1.32**	1060	1.04	0.89-1.21
	Organic Ind.	118	1266	**1.18**	**1.02-1.37**	643	**1.25**	**1.04-1.49**	623	1.10	0.89-1.36
	Inorganic Ind.	79	616	1.09	0.90-1.32	326	1.14	0.89-1.46	290	1.04	0.78-1.36
	Fertiliser Ind.	33	166	1.03	0.77-1.39	84	0.93	0.61-1.36	82	1.08	0.71-1.61
	Biocides	13	59	1.12	0.64-1.86	29	1.79	0.93-3.16	30	0.59	0.19-1.45
	Pharmaceutical Ind.	32	17	1.06	0.82-1.37	12	1.20	0.86-1.66	5	0.95	0.65-1.38
	Explosives & Pyrothecnic	138	73	1.04	0.87-1.26	43	1.09	0.86-1.37	30	0.96	0.74-1.25
Melanoma	**All Sector**	575	3903	1.04	0.97-1.13	2067	1.01	0.91-1.12	1836	1.09	0.98-1.22
	Organic Ind.	118	2150	1.02	0.92-1.13	1162	0.93	0.81-1.07	988	1.14	0.98-1.32
	Inorganic Ind.	79	1117	**1.20**	**1.05-1.37**	575	1.13	0.95-1.35	542	**1.29**	**1.07-1.55**
	Fertiliser Ind.	33	333	1.16	0.95-1.40	167	1.18	0.91-1.51	166	1.13	0.84-1.49
	Biocides	13	145	0.96	0.59-1.48	84	0.98	0.48-1.70	61	0.98	0.48-1.82
	Pharmaceutical Ind.	32	17	1.10	0.92-1.32	8	1.05	0.81-1.34	9	1.18	0.90-1.51
	Explosives & Pyrothecnic	138	141	**1.16**	**1.03-1.31**	71	1.16	0.98-1.36	70	1.16	0.97-1.39
Skin	**All Sector**	575	2183	1.00	0.80-1.12	1209	1.00	0.86-1.15	974	0.98	0.83-1.15
	Organic Ind.	118	1345	0.98	0.83-1.16	747	0.92	0.74-1.13	598	1.01	0.80-1.28
	Inorganic Ind.	79	504	0.95	0.77-1.18	263	1.00	0.77-1.30	241	0.92	0.67-1.25
	Fertiliser Ind.	33	149	1.47	1.11-1.94	83	**1.58**	**1.12-2.19**	66	1.35	0.89-1.99
	Biocides	13	100	1.25	0.70-2.12	59	1.74	0.89-3.16	41	0.70	0.23-1.76
	Pharmaceutical Ind.	32	17	0.94	0.70-1.26	12	1.10	0.76-1.55	5	0.77	0.49-1.18
	Explosives & Pyrothecnic	138	68	0.94	0.78-1.14	45	0.99	0.78-1.26	23	0.87	0.66-1.13
Breast	**All Sector**	575							29932	1.02	0.98-1.06
	Organic Ind.	118							17005	0.97	0.91-1.02
	Inorganic Ind.	79							8256	**1.10**	**1.03-1.18**
	Fertiliser Ind.	33							2545	1.04	0.93-1.15
	Biocides	13							924	0.91	0.77-1.09
	Pharmaceutical Ind.	32							175	1.00	0.92-1.10
	Explosives & Pyrothecnic	138							1027	**1.06**	**1.00-1.13**
Vulva and Vagina	**All Sector**	575							1650	0.99	0.88-1.12
	Organic Ind.	118							962	1.02	0.84-1.23
	Inorganic Ind.	79							439	0.87	0.67-1.11
	Fertiliser Ind.	33							117	1.36	0.97-1.87
	Biocides	13							62	1.68	0.97-2.75
	Pharmaceutical Ind.	32							18	0.84	0.59-1.17
	Explosives & Pyrothecnic	138							52	0.95	0.76-1.19
Uterus	**All Sector**	575							9250	0.97	0.92-1.03
	Organic Ind.	118							5608	0.93	0.85-1.01
	Inorganic Ind.	79							2293	1.00	0.90-1.12
	Fertiliser Ind.	33							707	0.93	0.79-1.09
	Biocides	13							266	1.18	0.90-1.52
	Pharmaceutical Ind.	32							69	1.02	0.89-1.18
	Explosives & Pyrothecnic	138							307	1.02	0.92-1.12
Ovary	**All Sector**	575							9276	**1.10**	**1.04-1.16**
	Organic Ind.	118							5304	**1.10**	**1.02-1.20**
	Inorganic Ind.	79							2579	1.05	0.95-1.16
	Fertiliser Ind.	33							719	1.14	0.98-1.32
	Biocides	13							281	0.90	0.65-1.21
	Pharmaceutical Ind.	32							44	1.12	0.98-1.28
	Explosives & Pyrothecnic	138							349	1.11	1.01-1.22
Prostate	**All Sector**	575				27092	1.00	0.96-1.04			
	Organic Ind.	118				16014	1.03	0.97-1.09			
	Inorganic Ind.	79				7097	1.01	0.94-1.09			
	Fertiliser Ind.	33				2165	0.98	0.87-1.10			
	Biocides	13				793	1.06	0.88-1.27			
	Pharmaceutical Ind.	32				165	0.97	0.87-1.07			
	Explosives & Pyrothecnic	138				858	1.03	0.96-1.09			
Testis	**All Sector**	575				202	0.94	0.69-1.29			
	Organic Ind.	118				133	0.82	0.52-1.30			
	Inorganic Ind.	79				41	0.99	0.55-1.73			

	Fertiliser Ind.	33				17	0.79	0.30-1.82			
	Biocides	13				6	1.21	0.22-4.38			
	Pharmaceutical Ind.	32				0	0.56	0.19-1.44			
	Explosives & Pyrothecnic	138				5	0.86	0.50-1.43			
Bladder	**All Sector**	575	20789	**1.07**	**1.02-1.11**	17132	**1.09**	**1.04-1.14**	3657	0.98	0.90-1.06
	Organic Ind.	118	11978	**1.12**	**1.05-1.20**	9868	**1.15**	**1.07-1.24**	2110	1.00	0.89-1.12
	Inorganic Ind.	79	5674	1.00	0.92-1.09	4664	1.01	0.92-1.11	1010	0.97	0.83-1.13
	Fertiliser Ind.	33	1659	**1.14**	**1.00-1.29**	1379	**1.18**	**1.04-1.35**	280	0.97	0.77-1.21
	Biocides	13	706	0.95	0.76-1.17	588	0.96	0.76-1.21	118	0.92	0.56-1.45
	Pharmaceutical Ind.	32	118	1.09	0.97-1.22	99	1.12	0.98-1.26	19	1.00	0.81-1.22
	Explosives & Pyrothecnic	138	654	1.03	0.95-1.11	534	1.04	0.96-1.13	120	0.95	0.82-1.09
Kidney	**All Sector**	575		**1.10**	**1.04-1.17**	5958	**1.11**	**1.03-1.19**	3014	**1.10**	**1.00-1.21**
	Organic Ind.	118	5114	**1.09**	**1.00-1.19**	3409	**1.10**	**1.00-1.22**	1705	1.06	0.93-1.21
	Inorganic Ind.	79	2497	**1.11**	**1.00-1.24**	1658	1.09	0.96-1.24	839	**1.18**	**1.00-1.39**
	Fertiliser Ind.	33	711	1.10	0.94-1.30	465	1.15	0.95-1.38	246	10.3	0.79-1.33
	Biocides	13	242	1.01	0.73-1.35	168	1.02	0.69-1.45	74	1.02	0.60-1.63
	Pharmaceutical Ind.	32	47	**1.20**	**1.04-1.38**	31	**1.19**	**1.01-1.40**	16	1.21	0.97-1.49
	Explosives & Pyrothecnic	138	361	1.04	0.94-1.16	227	1.05	0.93-1.18	134	1.05	0.89-1.23
Brain	**All Sector**	575	11663	**1.07**	**1.01-1.12**	6430	1.04	0.98-1.11	5233	**1.10**	**1.03-1.18**
	Organic Ind.	118	6688	**1.07**	**1.00-1.15**	3701	1.06	0.97-1.16	2987	**1.11**	**1.01-1.23**
	Inorganic Ind.	79	3246	1.05	0.96-1.15	1758	1.05	0.94-1.18	1488	1.06	0.93-1.20
	Fertiliser Ind.	33	941	**1.16**	**1.01-1.33**	525	1.17	0.99-1.38	416	1.13	0.93-1.36
	Biocides	13	355	1.06	0.82-1.35	204	1.09	0.78-1.48	151	1.04	0.71-1.47
	Pharmaceutical Ind.	32	64	1.02	0.90-1.16	34	0.98	0.84-1.14	30	1.08	0.91-1.29
	Explosives & Pyrothecnic	138	369	**1.08**	**0.99-1.18**	208	1.08	0.97-1.19	161	1.10	0.97-1.24
Other Central nervous system	**All Sector**	575	440	1.16	0.90-1.50	214	2.21	0.88-1.67	226	1.03	0.72-1.48
	Organic Ind.	118	268	0.88	0.60-1.27	142	0.84	0.53-1.32	126	0.80	0.47-1.35
	Inorganic Ind.	79	83	**1.54**	**1.02-2.29**	40	**1.77**	**1.06-2.86**	43	1.37	0.75-2.41
	Fertiliser Ind.	33	61	1.27	0.65-2.36	19	0.96	0.35-2.25	42	1.51	0.62-3.36
	Biocides	13	13	2.21	0.70-5.74	4	2.93	0.80-8.40	9	1.00	0.10-5.73
	Pharmaceutical Ind.	32	5	0.87	0.43-1.65	4	0.83	0.30-1.95	1	0.82	0.31-1.94
	Explosives & Pyrothecnic	138	10	1.16	0.76-1.74	5	1.14	0.66-1.89	5	1.12	0.61-1.99
Thyroid Gland	**All Sector**	575	1377	1.04	0.91-1.18	452	1.15	0.94-1.43	925	0.97	0.83-1.15
	Organic Ind.	118	793	0.95	0.79-1.15	252	1.05	0.79-1.39	541	0.92	0.73-1.17
	Inorganic Ind.	79	361	0.93	0.72-1.18	114	1.20	0.83-1.73	247	0.82	0.59-1.11
	Fertiliser Ind.	33	118	1.06	0.73-1.52	47	1.33	0.77-2.18	71	0.91	0.55-1.44
	Biocides	13	40	1.23	0.61-2.25	18	1.15	0.32-3.23	22	1.28	0.55-2.62
	Pharmaceutical Ind.	32	12	0.96	0.69-1.32	4	1.15	0.67-1.86	8	0.88	0.58-1.31
	Explosives & Pyrothecnic	138	53	**1.28**	**1.03-1.59**	17	1.29	0.92-1.78	36	1.25	0.95-1.62
Non-Hodgkin´s Lymphoma	**All Sector**	575	11835	**1.05**	**0.99-1.11**	6131	**1.09**	**1.01-1.17**	5704	1.00	0.93-1.08
	Organic Ind.	118	6903	1.02	0.94-1.11	3582	1.04	0.93-1.17	3321	0.99	0.89-1.10
	Inorganic Ind.	79	3108	1.07	0.96-1.18	1586	1.11	0.97-1.27	1522	1.02	0.89-1.16
	Fertiliser Ind.	33	969	1.04	0.88-1.21	511	1.07	0.87-1.31	458	1.04	0.84-1.27
	Biocides	13	374	1.00	0.77-1.29	200	0.85	0.57-1.23	174	1.20	0.85-1.68
	Pharmaceutical Ind.	32	79	1.05	0.92-1.20	37	1.08	0.90-1.30	42	1.03	0.86-1.22
	Explosives & Pyrothecnic	138	402	**1.09**	**0.99-1.20**	215	1.12	0.99-1.26	187	1.07	0.94-1.21
Hodgkin ´s Lymphoma	**All Sector**	575	1172	1.08	0.94-1.23	678	1.10	0.92-1.31	494	1.06	0.86-1.29
	Organic Ind.	118	661	0.98	0.81-1.18	389	1.03	0.81-1.30	272	0.91	0.70-1.21
	Inorganic Ind.	79	310	**1.30**	**1.03-1.63**	175	1.29	0.95-1.74	135	1.31	0.93-1.82
	Fertiliser Ind.	33	105	0.90	0.60-1.32	58	0.88	0.51-1.44	47	0.93	0.51-1.58
	Biocides	13	31	2.04	1.15-3.41	17	1.57	0.64-3.33	14	2.64	1.21-1.58
	Pharmaceutical Ind.	32	15	**1.53**	**1.13-2.05**	6	**1.86**	**1.27-2.65**	9	1.14	0.68-1.83
	Explosives & Pyrothecnic	138	50	0.90	0.80-1.14	33	0.86	0.62-1.17	17	0.96	0.68-1.34
Myeloma	**All Sector**	575	7568	**1.06**	**1.00-1.13**	3776	**1.08**	**0.99-1.16**	3792	1.05	0.97-1.14
	Organic Ind.	118	4319	1.06	0.97-1.16	2164	1.00	0.89-1.11	2155	**1.12**	**0.99-1.25**
	Inorganic Ind.	79	2080	1.00	0.89-1.12	1005	1.11	0.96-1.28	1075	0.94	0.81-1.09
	Fertiliser Ind.	33	596	1.05	0.89-1.23	311	1.19	0.97-1.46	285	0.94	0.75-1.17
	Biocides	13	254	1.22	0.90-1.63	130	0.99	0.62-1.52	124	1.42	0.96-2.03
	Pharmaceutical Ind.	32	49	1.09	0.94-1.26	18	**1.26**	**1.05-1.52**	31	1.00	0.81-1.22
	Explosives & Pyrothecnic	138	270	**1.11**	**1.00-1.23**	148	**1.13**	**0.99-1.28**	122	1.10	0.96-1.25
Leukaemia	**All Sector**	575	14966	**1.07**	**1.02-1.12**	8347	**1.11**	**1.04-1.17**	6619	1.02	0.96-1.09

	Organic Ind.	118	8842	**1.07**	**1.01-1.15**	4991	**1.09**	**1.01-1.19**	3851	1.05	0.96-1.15
	Inorganic Ind.	79	4065	1.06	0.97-1.16	2186	1.06	0.95-1.18	1879	1.06	0.94-1.20
	Fertiliser Ind.	33	1055	1.08	0.95-1.22	592	1.12	0.96-1.30	463	1.03	0.87-1.23
	Biocides	13	427	0.95	0.73-1.22	246	1.09	0.79-1.47	181	0.80	0.52-1.18
	Pharmaceutical Ind.	32	68	0.98	0.88-1.10	44	1.01	0.87-1.16	24	0.96	0.82-1.13
	Explosives & Pyrothecnic	138	509	1.06	0.98-1.14	288	**1.11**	**1.01-1.22**	221	1.01	0.91-1.12

[a] N= Number of towns situated ≤5km from at least one chemical industry; [b] Obs=Observed deaths.

Table 7. Relative Risks (RR) and 95% Credible Intervals (95%CrI) for mortality from cancers analyzed in the study in municipalities situated ≤5 km from chemical installations, estimated using spatial regression models and Integrated Nested Laplace Approximation (INLA) as a Bayesian inference tool, statistically significant only in men, by chemical industry category. Significant and the marginal associations (those with a value of 0.99 in the lower limit of the 95% credible interval) are shown.

			BOTH			MEN			WOMEN		
TUMOR	**Chemical Industry category**	**N[a]**	**Obs[b]**	**RR**	**CrI95%**	**Obs**	**RR**	**CrI95%**	**Obs**	**RR**	**CrI95%**
Esophagus	**Explosives & Pyrothecnic**	138	288	1.14	1.00-1.24	253	1.11	0.99-1.24	35	1.12	0.86-1.45
Stomach	**All Sector**	575	30322	1.09	1.04-1.15	18546	1.12	1.06-1.19	11776	1.04	0.98-1.11
	Organic Ind.	118	17410	1.14	1.05-1.23	10635	1.18	1.08-1.29	6775	1.07	0.98-1.17
	Inorganic Ind.	79	8431	1.09	0.99-1.20	5147	1.11	1.00-1.23	3284	1.03	0.92-1.15
	Fertiliser Ind.	33	2373	1.16	1.00-1.34	1440	1.26	1.08-1.48	933	1.01	0.85-1.20
Colorectal	**Fertiliser Ind.**	33	4904	1.08	0.99-1.18	2749	1.13	1.02-1.25	2155	1.04	0.94-1.15
	Pharmaceutical Ind.	32	334	1.07	0.98-1.15	190	1.1	1.00-1.21	144	1.03	0.94-1.13
	Explosives & Pyrothecnic	138	2157	1.05	1.00-1.10	1292	1.08	1.02-1.15	865	1.04	0.98-1.10
Liver	**All Sector**	575	13097	1.09	1.01-1.17	9522	1.12	1.04-1.21	3575	1.04	0.92-1.17
	Organic Ind.	118	6928	1.13	1.01-1.26	5086	1.08	1.06-1.33	1842	1.05	0.88-1.25
	Fertiliser Ind.	33	887	1.29	1.06-1.59	651	1.39	1.13-1.70	236	1.12	0.80-1.54
Gallbladder	**All Sector**	575	6649	1.09	1.02-1.20	2308	1.25	1.13-1.39	4341	1.02	0.93-1.11
	Fertiliser Ind.	33	459	1.12	0.92-1.36	168	1.39	1.05-1.81	291	0.98	0.77-1.23
	Pharmaceutical Ind.	32	37	1.17	0.98-1.41	12	1.47	1.14-1.87	25	1.01	0.80-1.26
	Explosives & Pyrothecnic	138	217	1.05	0.93-1.19	87	1.19	0.99-1.42	130	0.99	0.85-1.14
Pancreas	**All Sector**	575	21369	1.04	0.99-1.08	11280	1.05	1.00-1.11	10089	1.02	0.96-1.07
	Organic Ind.	118	12091	1.04	0.98-1.11	6481	1.09	1.01-1.17	5610	0.99	0.91-1.07
	Organic Ind.	118	670	1.09	0.89-1.34	306	1.33	0.99-1.76	364	0.94	0.73-1.20
	Explosives & Pyrothecnic	138	29	1.04	0.80-1.33	14	1.43	1.00-1.97	15	0.70	0.49-0.98
Lung	**All Sector**	575	91436	1.05	1.02-1.08	80494	1.06	1.03-1.10	10610	0.96	0.90-1.02
	Organic Ind.	118	52913	1.07	1.02-1.12	46952	1.09	1.04-1.15	5961	0.95	0.86-1.04
	Fertiliser Ind.	33	7512	1.16	1.06-1.26	6682	1.17	1.06-1.28	830	0.97	0.81-1.15
	Pharmaceutical Ind.	32	540	1.05	0.97-1.15	494	1.08	0.99-1.18	46	0.86	0.74-1.00
Pleura	**Organic Ind.**	118	573	1.42	1.10-1.82	407	1.52	1.14-2.04	166	1.24	0.86-1.78
	Inorganic Ind.	79	328	1.59	1.19-2.13	243	1.56	1.10-2.20	85	1.38	0.87-2.17
Connective and soft tissue	**All Sector**	575	2197	1.09	0.98-1.22	1137	1.15	1.01-1.32	1060	1.04	0.89-1.21
	Organic Ind.	118	1266	1.18	1.02-1.37	643	1.25	1.04-1.49	623	1.10	0.89-1.36

Skin	**Fertiliser Ind.**	33	149	1.47	1.11-1.94	83	1.58	1.12-2.19	66	1.35	0.89-1.99
Bladder	**All Sector**	575	20789	1.07	1.02-1.11	17132	1.09	1.04-1.14	3657	0.98	0.90-1.06
	Organic Ind.	118	11978	1.12	1.05-1.20	9868	1.15	1.07-1.24	2110	1.00	0.89-1.12
	Fertiliser Ind.	33	1659	1.14	1.00-1.29	1379	1.18	1.04-1.35	280	0.97	0.77-1.21
Kidney	**Organic Ind.**	118	5114	1.09	1.00-1.19	3409	1.10	1.00-1.22	1705	1.06	0.93-1.21
	Pharmaceutical Ind.	32	47	1.20	1.04-1.38	31	1.19	1.01-1.40	16	1.21	0.97-1.49
Other Central nervous system	**Inorganic Ind.**	79	83	1.54	1.02-2.29	40	1.77	1.06-2.86	43	1.37	0.75-2.41
Non-Hodgkin´s Lymphoma	**All Sector**	575	11835	1.05	0.99-1.11	6131	1.09	1.01-1.17	5704	1.00	0.93-1.08
Hodgkin ´s Lymphoma	**Pharmaceutical Ind.**	32	15	1.53	1.13-2.05	6	1.86	1.27-2.65	9	1.14	0.68-1.83
Myeloma	**All Sector**	575	7568	1.06	1.00-1.13	3776	1.08	0.99-1.16	3792	1.05	0.97-1.14
	Pharmaceutical Ind.	32	49	1.09	0.94-1.26	18	1.26	1.05-1.52	31	1.00	0.81-1.22
	Explosives & Pyrothecnic	138	270	1.11	1.00-1.23	148	1.13	0.99-1.28	122	1.10	0.96-1.25
Leukaemia	**All Sector**	575	14966	1.07	1.02-1.12	8347	1.11	1.04-1.17	6619	1.02	0.96-1.09
	Organic Ind.	118	8842	1.07	1.01-1.15	4991	1.09	1.01-1.19	3851	1.05	0.96-1.15
	Explosives & Pyrothecnic	138	509	1.06	0.98-1.14	288	1.11	1.01-1.22	221	1.01	0.91-1.12

[a] N= Number of towns situated ≤5km from at least one chemical industry; [b] Obs=Observed deaths.

Table 8. Relative Risks (RR) and 95% Credible Intervals (95%CrI) for mortality from cancers analyzed in the study in municipalities situated ≤5 km from chemical installations, estimated using spatial regression models and Integrated Nested Laplace Approximation (INLA) as a Bayesian inference tool, statistically significant only in women, by chemical industry category. Significant and the marginal associations (those with a value of 0.99 in the lower limit of the 95% credible interval) are shown.

			BOTH			**MEN**			**WOMEN**		
TUMOR	**Chemical Industry category**	**N[a]**	**Obs[b]**	**RR**	**CrI95%**	**Obs**	**RR**	**CrI95%**	**Obs**	**RR**	**CrI95%**
Pancreas	**Inorganic Ind.**	79	5996	1.04	0.96-1.12	3100	1.01	0.92-1.11	2896	1.09	0.99-1.20
Bones	**Fertiliser Ind.**	33	122	1.24	0.90-1.67	75	0.98	0.62-1.53	47	1.59	1.03-2.37
Melanoma	**Inorganic Ind.**	79	1117	1.20	1.05-1.37	575	1.13	0.95-1.35	542	1.29	1.07-1.55
Breast	**Inorganic Ind.**	79							8256	1.10	1.03-1.18
	Explosives & Pyrothecnic	138							1027	1.06	1.00-1.13
Ovary	**All Sector**	575							9276	1.10	1.04-1.16
	Organic Ind.	118							5304	1.10	1.02-1.20
Kidney	**Inorganic Ind.**	79	2497	1.11	1.00-1.24	1658	1.09	0.96-1.24	839	1.18	1.00-1.39
Brain	**All Sector**	575	11663	1.07	1.01-1.12	6430	1.04	0.98-1.11	5233	1.10	1.03-1.18
	Organic Ind.	118	6688	1.07	1.00-1.15	3701	1.06	0.97-1.16	2987	1.11	1.01-1.23
Myeloma	**Organic Ind.**	118	4319	1.06	0.97-1.16	2164	1.00	0.89-1.11	2155	1.12	0.99-1.25

[a] N= Number of towns situated ≤5km from at least one chemical industry; [b] Obs=Observed deaths.

Table 9. Relative risks (RRs) and 95% credible intervals (95%CrI) for excess mortality from colorectal, gallbladder, pleural, ovarian and breast cancers in municipalities situated at ≤5 km from chemical installations using spatial regression models including altitude and latitude of the municipalities, and Integrated Nested Laplace Approximation (INLA) as Bayesian inference tool.

			BOTH		MEN		WOMEN	
Tumor	Variable		RR	95%CrI	RR	95%CrI	RR	95%CrI
Colorectal	Chemical industry category	All	1.052	1.022-1.084	1.063	1.026-1.102	1.048	1.009-1.088
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.023	1.018-1.028	1.026	1.021-1.032	1.014	1.008-1.021
	Chemical industry category	Organics	1.063	1.016-1.113	1.071	1.013-1.132	1.058	1.000-1.119
		Inorganics	1.056	1.000-1.115	1.027	0.960-1.098	1.103	1.030-1.182
		Fertilizers	1.059	0.974-1.151	1.102	0.997-1.219	1.026	0.925-1.138
		Biocides	0.958	0.836-1.097	0.990	0.837-1.172	0.921	0.764-1.111
		Pharmaceuticals	1.028	0.952-1.109	1.059	0.966-1.160	1.004	0.914-1.103
		Explosives/Pyrot	1.059	1.009-1.111	1.088	1.025-1.155	1.038	0.975-1.104
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.023	1.019-1.028	1.027	1.021-1.032	1.014	1.008-1.021
Gallbladder	Chemical industry category	All	1.081	1.006-1.162	1.225	1.098-1.366	1.009	0.925-1.101
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.017	1.006-1.029	1.017	1.000-1.035	1.015	1.002-1.029
	Chemical industry category	Organics	1.112	1.001-1.235	1.168	0.999-1.365	1.095	0.967-1.24
		Inorganics	0.975	0.850-1.120	1.1	0.898-1.351	0.893	0.755-1.057
		Fertilizers	1.11	0.918-1.343	1.367	1.040-1.797	0.976	0.772-1.233
		Biocides	1.066	0.740-1.534	0.997	0.538-1.848	1.09	0.705-1.685
		Pharmaceuticals	1.144	0.956-1.369	1.422	1.105-1.831	0.981	0.783-1.228
		Explosives/Pyrot	1.054	0.936-1.187	1.186	0.989-1.420	0.992	0.859-1.144
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.016	1.005-1.028	1.017	0.999-1.035	1.014	1.001-1.028
Pleura	Chemical industry category	All	1.342	1.120-1.607	1.377	1.112-1.704	1.265	0.954-1.675
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.047	1.015-1.080	1.066	1.026-1.109	1.021	0.979-1.063
	Chemical industry category	Organics	1.329	1.034-1.713	1.386	1.033-1.868	1.201	0.828-1.737
		Inorganics	1.477	1.104-1.978	1.419	1.005-2.000	1.319	0.832-2.104
		Fertilizers	2.147	1.429-3.215	2.275	1.424-3.622	1.873	1.018-3.459
		Biocides	0.731	0.258-2.064	0.783	0.236-2.596	0.586	0.079-4.313
		Pharmaceuticals	1.215	0.814-1.818	1.087	0.667-1.775	1.426	0.801-2.535
		Explosives/Pyrot	1.037	0.746-1.428	1.084	0.744-1.564	1.142	0.708-1.822
	Altitude		1	1.000-1.000	1	1.000-1.000	1	1.000-1.000
	Latitude		1.045	1.013-1.078	1.064	1.024-1.107	1.021	0.978-1.064
Ovary	Chemical industry category	All					1.098	1.038-1.160
	Altitude						1	1.000-1.000
	Latitude						1.002	0.994-1.011
	Chemical industry category	Organics					1.097	1.010-1.191
		Inorganics					1.043	0.939-1.160
		Fertilizers					1.131	0.972-1.318
		Biocides					0.895	0.657-1.219
		Pharmaceuticals					1.115	0.973-1.277
		Explosives/Pyrot					1.108	1.009-1.218
	Altitude						1	1.000-1.000
	Latitude						1.002	0.994-1.011
Breast	Chemical industry category	All					1.016	0.979-1.055
	Altitude						1	1.000-1.000
	Latitude						1	0.994-1.005
	Chemical industry category	Organics					0.964	0.910-1.021
		Inorganics					1.092	1.020-1.168
		Fertilizers					1.030	0.928-1.144
		Biocides					0.908	0.762-1.082
		Pharmaceuticals					1.001	0.912-1.098
		Explosives/Pyrot					1.062	0.998-1.129
	Altitude						1	1.000-1.000
	Latitude						1.001	0.995-1.006

Figure 1: Map of the regional and provincial administrative boundaries in Spain

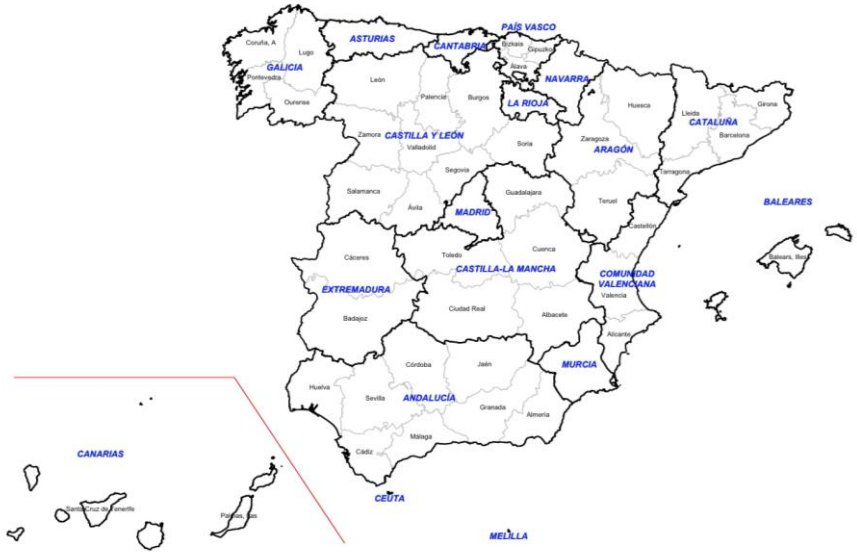


Figure 2: Location of chemical industries by category

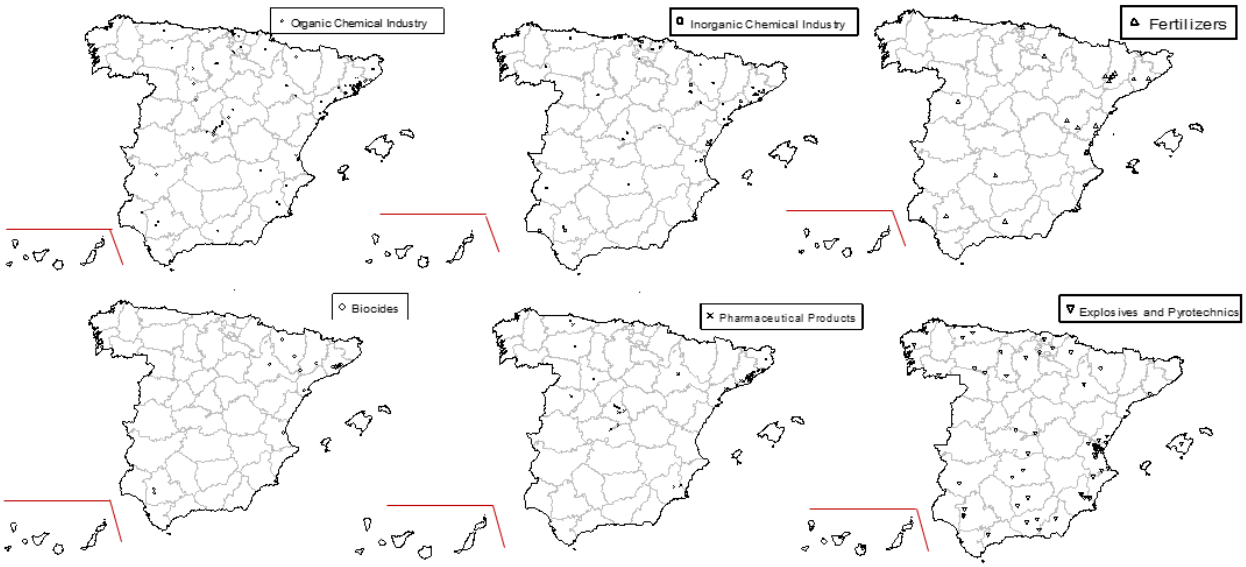
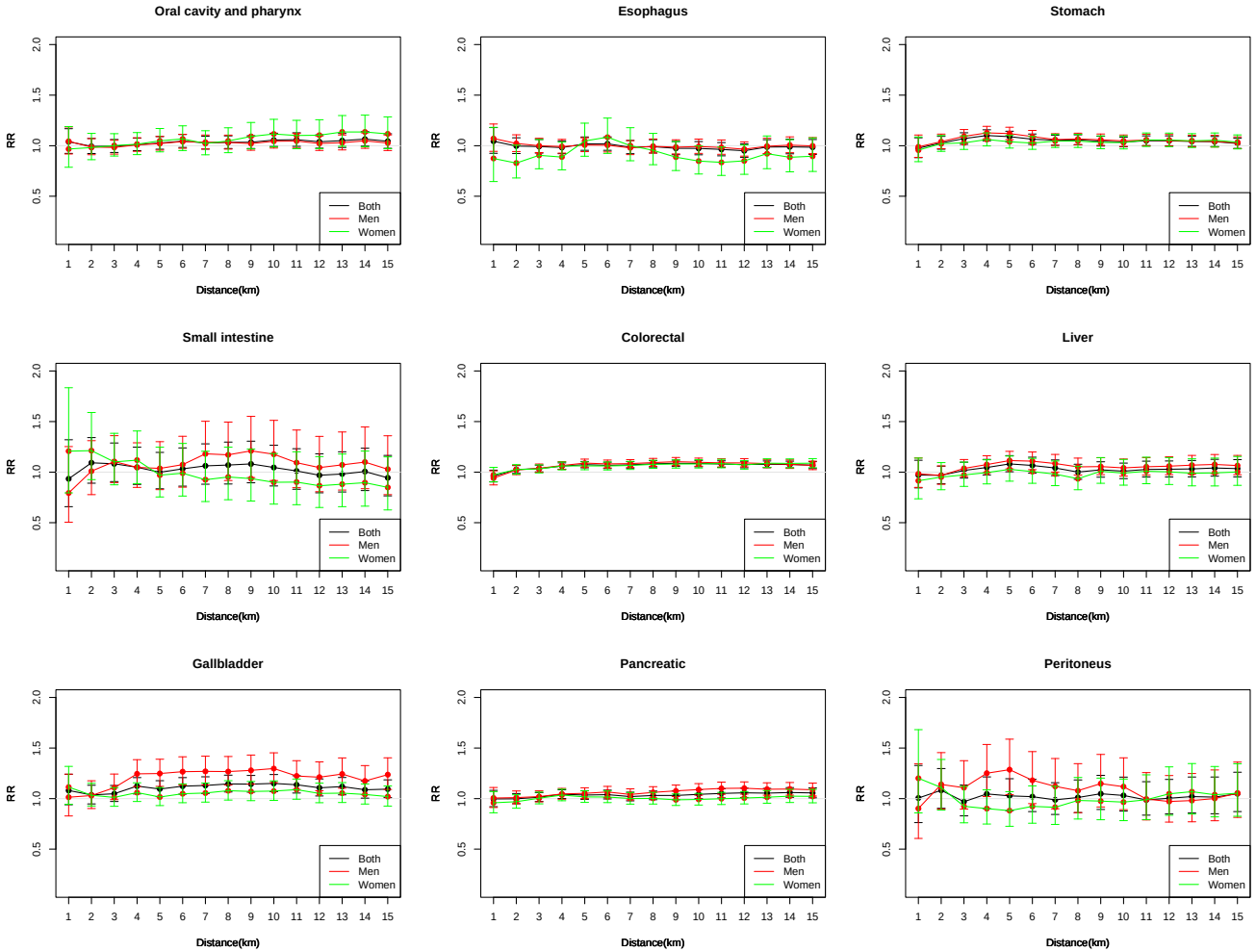
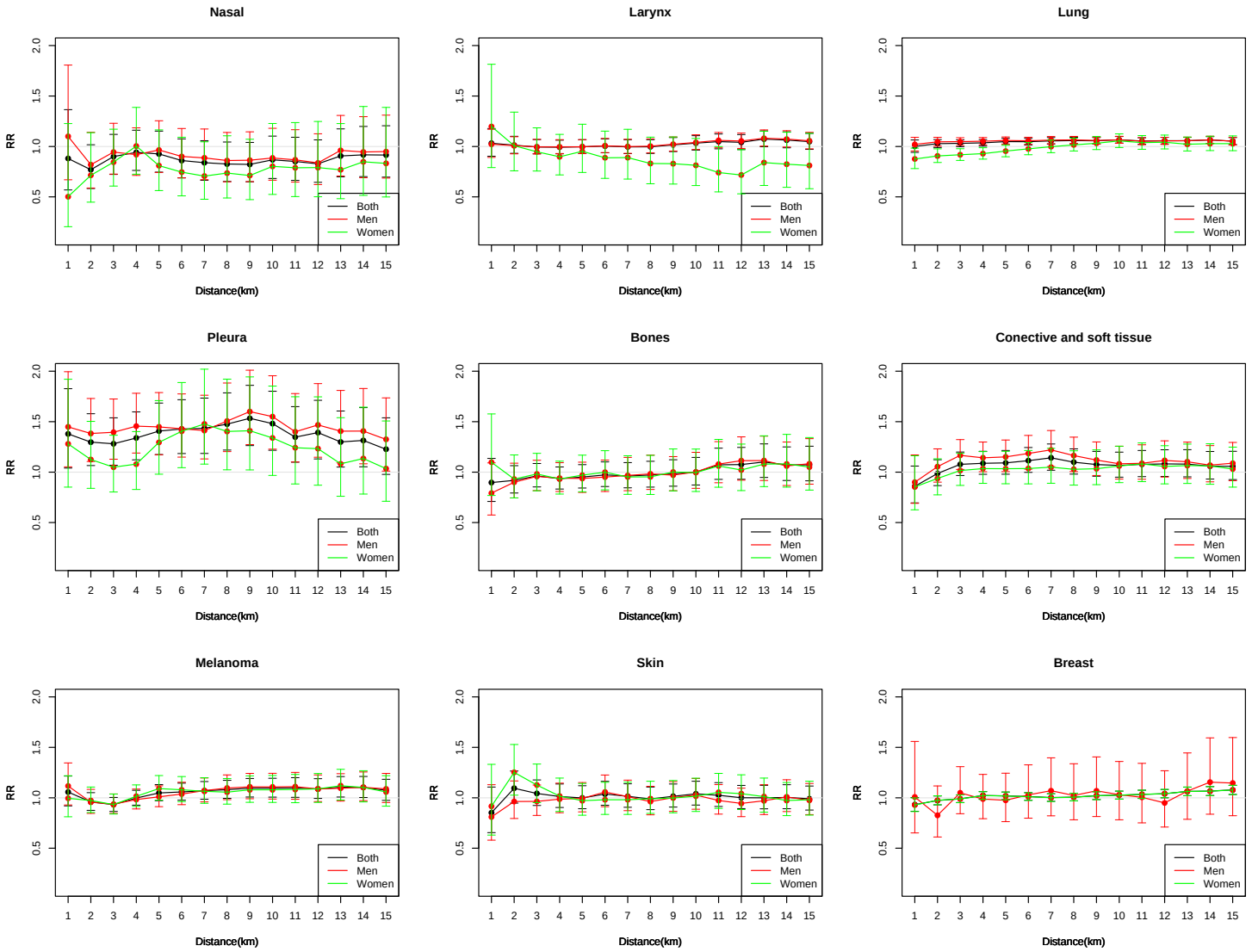
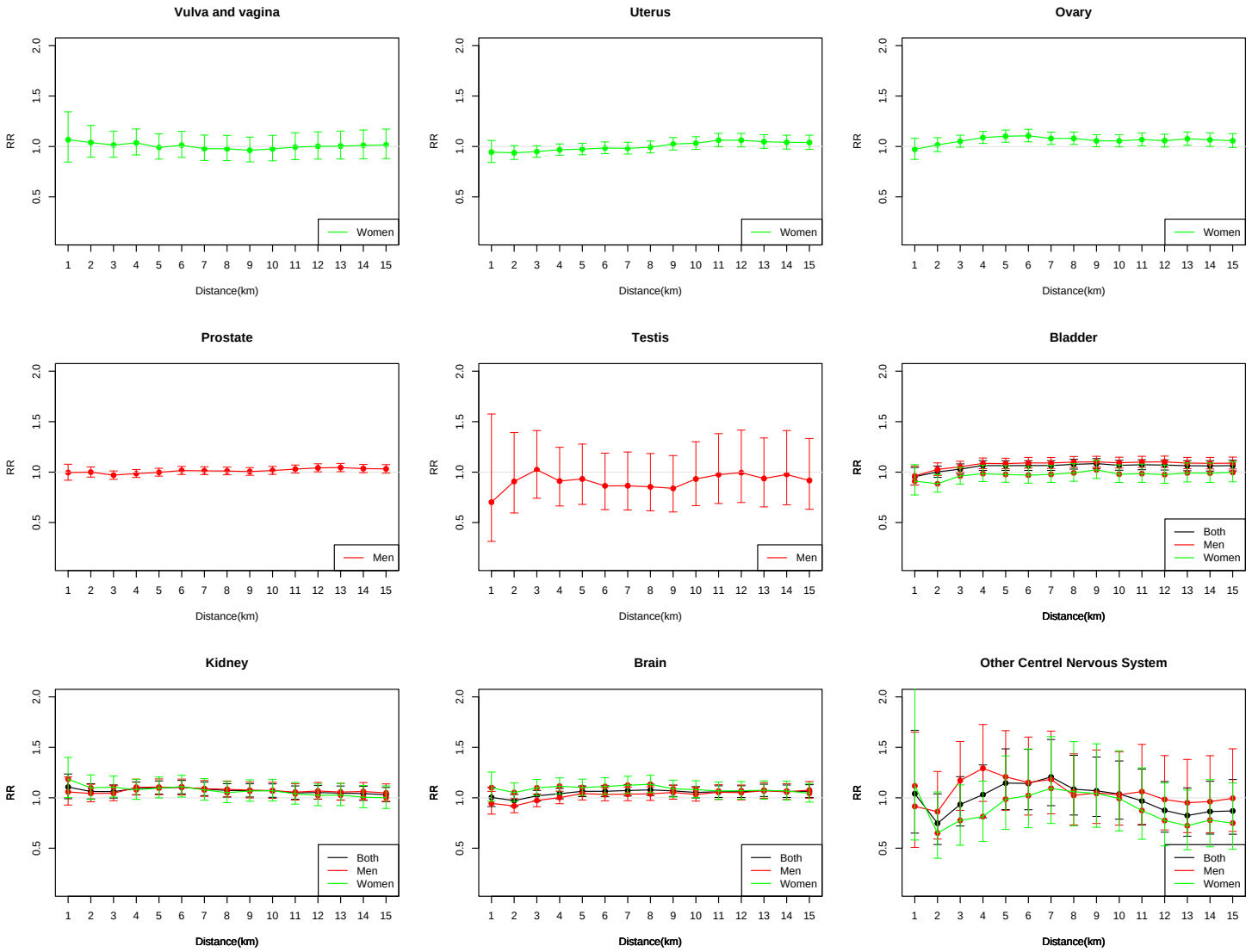
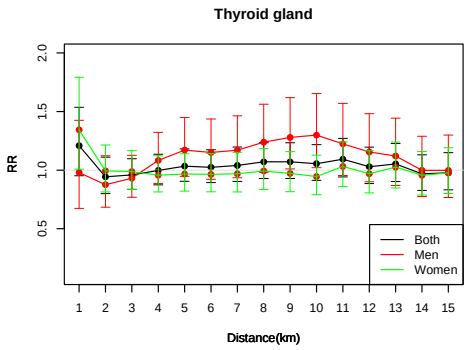


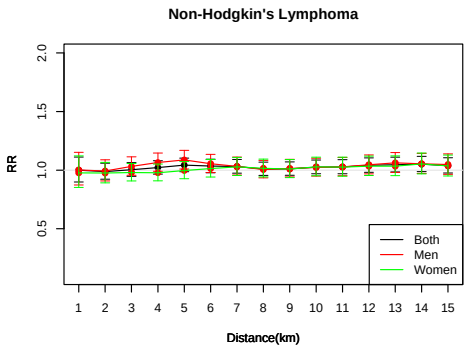
Figure 3: Relative risks and 95% Credible Intervals for mortality from the cancers analyzed in municipalities situated ≤ 1, 2, ..., 15 km from chemical installations, estimated using spatial regression models for both, men and women.

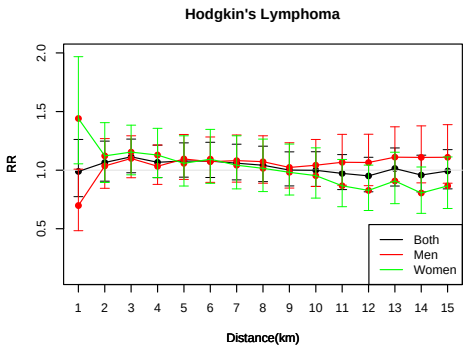


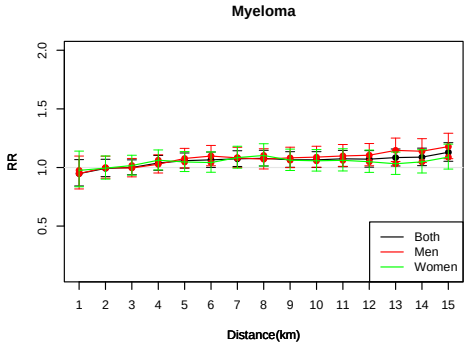

Nasal
Larynx
Lung
Pleura
Bones
Conective and soft tissue
Melanoma
Skin
Breast
RR
Distance(km)
Both
Men
Women

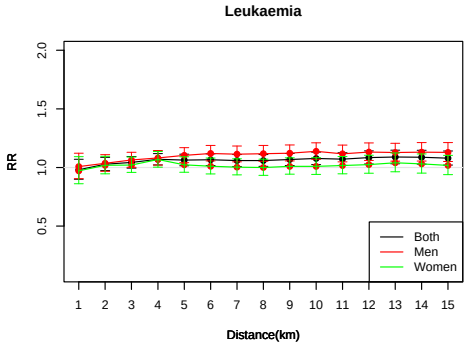

Vulva and vagina
Uterus
Ovary
Prostate
Testis
Bladder
Kidney
Brain
Other Centrel Nervous System
RR
Distance(km)
Women
Men
Both


Thyroid gland
RR
Distance(km)
Both
Men
Women


Non-Hodgkin's Lymphoma
RR
Distance(km)
Both
Men
Women


Hodgkin's Lymphoma
RR
Distance(km)
Both
Men
Women


Myeloma
RR
Distance(km)
Both
Men
Women


Leukaemia
RR
Distance(km)
Both
Men
Women