

Additional file 1. Category of exposed of substances according to the class of the substance and the mortality index in the derivation group

Classification (5 classes)	Category of substances (8 categories)	Name of substance (44 types)	No. of exposure (n=34352)	No. of mortality (n=909)	Mortality index (%)
pharmaceutical drugs	A	hormones, hormone antagonists, contraceptions	185	0	0.0
	A	agents for diagnosis	171	0	0.0
	A	vitamin, dietary supplements	89	0	0.0
	A	topical preparations	59	0	0.0
	A	acetaminophen	1363	1	0.1
	A	antipsychotics	419	1	0.2
	A	antidepressant	1157	3	0.3
	A	zolpidem	2533	7	0.3
	A	doxylamine	349	1	0.3
	A	benzodiazepine	1872	8	0.4
	A	unspecified sedatives, antipsychotics, hypnotics	4453	20	0.4
	B	antihistamine	204	1	0.5
	B	peptic, gastrointestinal drugs	189	1	0.5
	B	cold and cough preparation	371	2	0.5
	B	unspecified therapeutic drugs	1336	10	0.7
	B	anticonvulsants	263	2	0.8
	B	cardiovascular drugs	519	4	0.8
	B	unspecified analgesics	542	6	1.1
	B	antibiotics, antifungals	157	3	1.9
	B	opioid	96	2	2.1
	B	stimulants, street drugs	33	1	3.0
	B	asthma therapies	30	1	3.3
B	oral hypoglycemic drugs	59	3	5.1	

artificial toxic substances	C	hydrocarbons	66	0	0.0
	C	heavy metals	27	0	0.0
	C	alcohols	392	2	0.5
	C	chlorine bleach, sodium hypochlorite	1057	10	0.9
	D	unspecified artificial toxic substances	2422	39	1.6
	D	unspecified alkali	353	7	2.0
	D	unspecified acid	216	6	2.8
	D	unspecified corrosive agents	172	5	2.9
	E	glacial acetic acid	171	32	18.7
pesticides	D	rodenticide	167	2	1.2
	D	pyrethroid	275	8	2.9
	D	unspecified insecticides	1211	64	5.3
	D	unspecified pesticides	475	41	8.6
	D	unspecified herbicides	1361	120	8.8
	D	glyphosate	873	80	9.2
	E	organophosphate	393	45	11.5
	E	carbamate	110	13	11.8
	F	paraquat	596	313	52.5
gases	G	carbon monoxide	5241	32	0.6
	G	unspecified gases	919	5	0.5
natural toxic substances	H	natural toxic substances	1406	8	0.6