

Article	Article name	Publication year	Health outcome	Exposure assessment method	Exposure assessment method type	Study design	Study population	Sample size	Number of cases	Number of controls	Number of exposed cases	Exposure definition and comparison	Risk measure	Risk estimate	Lower CI	Upper CI	Type of pesticide	Study location
Demers 2006. Exp. AI	Cancer and occupational exposure to pentachlorophenol and tetrachlorophenol (Canada)	2006	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Retrospective cohort	Sawmill workers	27464	92		17	5+ exposure years of cumulative dermal pentachlorophenol exposure.	RR	1.71	0.91	3.24	Pentachlorophenol	Canada
Demers 2006. JT. GenP	Cancer and occupational exposure to pentachlorophenol and tetrachlorophenol (Canada)	2006	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Retrospective cohort	Sawmill workers	27464	92		92	Standardized incidence rates calculated based on comparison with British Columbia provincial rates. Workers exposure classified based on their work area listed in personnel files.	SIR	0.99	0.81	1.21	Pesticides in general	Canada
Lyngø 1998. Class	Cancer incidence in Danish phenoxy herbicide workers, 1947-1993	1998	Non-Hodgkin's lymphoma	Registers	Group-based assessment	Retrospective cohort	Pesticide manufacturers	2119	6		6	Pesticide applicators from AHS	SIR	1.10	0.4	2.6	Phenoxy herbicides	Denmark
Alavanja 2014. AI	Non-hodgkin lymphoma risk and insecticide, fungicide and fumigant use in the agricultural health study	2014	Non-Hodgkin's lymphoma	Algorithm/model	Expert-level assessment	Prospective cohort		54306	523		14	Intensity-weighted lifetime days.	RR	1.8	1.0	3.2	Lindane	USA
Kachuri 2017. M. GenP	Cancer risks in a population-based study of 70,570 agricultural workers: results from the Canadian census health and Environment cohort (CanCHEC)	2017	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Prospective cohort	Agricultural workers	70570	500		500	Agricultural worker versus not agricultural worker in all other members of the cohort.	HR	1.10	1.00	1.21	Pesticides in general	Canada
Kachuri 2017.W. GenP	Cancer risks in a population-based study of 70,570 agricultural workers: results from the Canadian census health and Environment cohort (CanCHEC)	2017	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Prospective cohort	Agricultural workers	70570	135		135	Agricultural worker versus not agricultural worker in all other members of the cohort.	HR	1.02	0.86	1.22	Pesticides in general	Canada
Lemarchand 2017. M. GenP	Cancer incidence in the AGRICAN cohort study (2005-2011)	2017	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Prospective cohort	Farmers (as insured by MSA in France)	98794	644		310	Pesticide use on crops (yes versus no)	SIR	1.01	0.90	1.12	Pesticides in general	USA
Lemarchand 2017. W. GenP	Cancer incidence in the AGRICAN cohort study (2005-2011)	2017	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Prospective cohort	Farmers (as insured by MSA in France)	98794	367		48	Pesticide use on crops (yes versus no)	SIR	1.10	0.81	1.45	Pesticides in general	USA
Burns 2011. AI	Cancer incidence of 2,4-D production workers	2011	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Retrospective cohort	Pesticide manufacturers (male)	1256	14		14	Pesticide manufacturers versus rates for white males as comparison.	SIR	1.36	0.74	2.29	2,4D	USA
Wiklund 1987. Class	Risk of malignant lymphoma in Swedish pesticide applicators	1987	Non-Hodgkin's lymphoma	Self-reported job history	Group-based assessment	Prospective cohort	Pesticide applicators (mainly agricultural)	20245	21		12	Number of years since pesticide license. Highest category >10 years. Standardized incidence rates calculated for number of years since obtained pesticide license.	SIR	1.16	0.60	2.02	Phenoxy herbicides	Sweden
Kristensen 1996. M. GenP	Incidence and risk factors of cancer among men and women in Norwegian agriculture	1996	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Prospective cohort	Farmers	66080	69	NA	69	Incidence rates for working as a farmer compared with rural reference population.	SIR	0.82	0.64	1.03	Pesticides in general	Norway
Kristensen 1996. W. GenP	Incidence and risk factors of cancer among men and women in Norwegian agriculture	1996	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Prospective cohort	Farmers	30218	20	NA	20	Incidence rates for working as a farmer compared with rural reference population.	SIR	1.04	0.64	1.56	Pesticides in general	Norway
Kogevinas 1995. Class	Soft tissue sarcoma and non-Hodgkin's lymphoma in workers exposed to phenoxy herbicides, chlorophenols, and dioxins: two nested case-control studies	1995	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Nested Case-control study	Pesticide manufacturers	21183	32		7	Level of exposure by categories (nonexposed, low, medium, high). Cumulative exposure lagged 5 years.	OR	1.36	0.46	4.03	Phenoxy herbicides	International
Hardell 2002. SRE. Type	Exposure to pesticides as risk factor for non-Hodgkin's lymphoma and hairy cell leukemia: pooled analysis of two Swedish case-control studies	2002	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Cases from cancer registries	1656	515	1141	18	Exposed versus non-exposed. Minimum exposure of 8 hours (one working day). Medium-high cumulative exposure versus none.	OR	2.02	0.97	4.23	Fungicides	Sweden
Ferri 2017. JEM. AI	Risk of lymphoma subtypes by occupational exposure in Southern Italy	2017	Non-Hodgkin's lymphoma	Job exposure matrix	Expert-level assessment	Case-control study	Population base	310	128	76	7	Agricultural worker versus not agricultural worker	OR	1.27	0.3	5.41	Paraquat	Italy
Ferri 2017. JT. GenP	Risk of lymphoma subtypes by occupational exposure in Southern Italy	2017	Non-Hodgkin's lymphoma	Self-reported job history	Group-based assessment	Case-control study	Population base	310	117	72	14	Ever versus never exposure.	OR	2.7	0.7	10.1	Pesticides in general	Italy
Balasubramaniam 2013. GenP	Case-control study of risk factors for Non-Hodgkin lymphoma in Mumbai, India	2013	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	1771	388	1383	29	Duration of exposure. High exposure is defined as >median number of years for exposed subjects.	OR	6.1	3.3	11.2	Pesticides in general	Canada
Zakerinia 2012. GenP	The relationship between exposure to pesticides and the occurrence of lymphoid neoplasm	2012	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Case-control study	Hospital base	400	200	200	34	Ever exposure to pesticides	OR	2.12	1.2	3.7	Pesticides in general	Iran
Wong 2010. SRE. Type	A hospital-based case-control study of non-Hodgkin lymphoid neoplasms in Shanghai: analysis of environmental and occupational risk factors by subtypes of the WHO classification	2010	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	1947	649	1298	25						Herbicides	China

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Wong 2010. JT. Type	A hospital-based case-control study of non-Hodgkin lymphoid neoplasms in Shanghai: analysis of environmental and occupational risk factors by subtypes of the WHO classification	2010	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Case-control study	Hospital base	1947	649	1298	195	Farmworker (all types) Occupational pesticide use verified by experts.	OR	1.43	1.14	1.78	Pesticides in general	China
Orsi 2009. GenP	Occupational exposure to pesticides and lymphoid neoplasms among men: results of a French case-control study	2009	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Case-control study	Hospital base	680	244	436	32	Cumulative exposure defined as the product of cumulative hours worked in each exposed job, and the respective exposure intensity and probability scores.	OR	1.5	0.9	2.5	Pesticides in general	France
Richardson 2008. Type	Occupational risk factors for non-Hodgkin's lymphoma: a population-based case-control study in Northern Germany	2008	Non-Hodgkin's lymphoma	Job exposure matrix	Expert-level assessment	Case-control study	Population base	767	242	525	23	Use of pesticides for crops at least once per week Number of dipped sheep (200-683). Proxy for the highest exposed.	OR	2.08	1.15	3.77	Herbicides	Germany
Orsi 2007. GenP	Occupation and lymphoid malignancies: results from a French case-control study	2007	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	1100	399	701	14	Probability of use >low and lack of protective equipment	OR	3.6	1.5	8.6	Pesticides in general	France
Rafinsson 2006. AI	Risk of non-Hodgkin's lymphoma and exposure to hexachlorocyclohexane, a nested case-control study	2006	Non-Hodgkin's lymphoma	Registers	Group-based assessment	Case-control study	Sheep owners	266	45	221	15	Substantial exposure versus none exposure.	OR	3.44	1.31	9.04	Hexachlorocyclohexane	Iceland
Miligi 2006. AI	Cancer and pesticides: an overview and some results of the Italian multicenter case-control study on hematolymphopoietic malignancies.	2006	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	2377	1145	1232	9	The distribution of the 15 most commonly used pesticides (in pounds of active ingredient applied in counties where farm workers were employed) was examined, and cut points were created to construct categories in dichotomies of low versus high use or tertiles of use.	OR	4.4	1.1	29.1	2.4D	Italy
Fritschi 2005. GenP	Occupational exposure to pesticides and risk of non-Hodgkin's lymphoma	2005	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	1388	694	694	26	Ever versus never use. Highest number of years in any occupation with pesticide exposure. Applied pesticides on a farm (yes-no)	OR	3.09	1.42	6.70	Pesticides in general	Australia
Mills 2005. AI	Lymphohematopoietic cancers in the United Farm Workers of America (UFW), 1988-2001	2005	Non-Hodgkin's lymphoma	Registers	Group-based assessment	Case-control study	Members of farmers union	360	60	300	60	OR	3.8	1.85	7.81	2.4D	USA	
Chiu 2004. Type	Agricultural pesticide use, familial cancer, and risk of non-Hodgkin lymphoma	2004	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Population base	3790	937	2853	77	OR	1.3	1.0	1.8	Fungicides	USA	
Kato 2004. JT. GenP	Pesticide product use and risk of non-Hodgkin lymphoma in women	2004	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Case-control study	Population base	839	376	463	27	OR	1.8	0.93	3.48	Pesticides in general	USA	
Kato 2004. SRE. GenP	Pesticide product use and risk of non-Hodgkin lymphoma in women	2004	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Population base	839	376	463	43	OR	1.18	0.59	2.38	Pesticides in general	USA	
Briggs 2003. Afr. Am. GenP	Occupational risk factors for selected cancers among African American and White men in the United States	2003	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Population base	2073	66	132	5	OR	1.2	0.4	4.0	Pesticides in general	USA	
Briggs 2003. White. GenP	Occupational risk factors for selected cancers among African American and White men in the United States	2003	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Population base	2073	893	1488	92	OR	0.9	0.6	1.7	Pesticides in general	USA	
Fabbro-Peray 2001. SRE. GenP	Environmental risk factors for non-Hodgkin's lymphoma: a population-based case-control study in Languedoc-Roussillon, France	2001	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Population base	1470	445	1025	41	Handling of pesticides	OR	1.0	0.7	1.6	Pesticides in general	France
Fabbro-Peray 2001. JT. GenP	Environmental risk factors for non-Hodgkin's lymphoma: a population-based case-control study in Languedoc-Roussillon, France	2001	Non-Hodgkin's lymphoma	Self-reported job history	Self-reported exposure	Case-control study	Population base	1470	445	1025	40	Agricultural occupation	OR	1.5	0.9	2.3	Pesticides in general	France
Fritschi 1996. GenP	Lymphoma, myeloma and occupation: results of a case-control study	1996	Non-Hodgkin's lymphoma	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	1358	215	NA	6	Degree of exposure: non-exposed, non-substantial, substantial exposure.	OR	0.9	0.4	2.3	Pesticides in general	Canada
Nanni 1996. CEM. AI	Chronic lymphocytic leukaemias and non-Hodgkin's lymphomas by histological type in farming-animal breeding workers: a population case-control study based on a priori exposure matrices	1996	Non-Hodgkin's lymphoma	Crop exposure matrix	Expert-level assessment	Case-control study	Farmers	1164	187	977	28	Exposure to DDT according to crop exposure matrix.	OR	1.70	0.91	3.17	DDT	Italy
Nanni 1996. SRE. AI	Chronic lymphocytic leukaemias and non-Hodgkin's lymphomas by histological type in farming-animal breeding workers: a population case-control study based on a priori exposure matrices	1996	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Farmers	1164	187	977	27	Exposure to DDT (yes/no)	OR	1.74	0.93	3.27	DDT	Italy

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Hardell 1994. GenP	Exposure to phenoxycetic acids, chlorophenols, or organic solvents in relation to histopathology, stage, and anatomical localization of non-Hodgkin's lymphoma.	1994	Non-Hodgkin's lymphoma	Job title	Group-based assessment	Case-control study	Hospital base	94	20	74	20	Farmer (yes/no)	OR	0.7	0.4	1.4	Pesticides in general	Sweden
Woods 1989. JT. GenP	Non-Hodgkin's lymphoma among phenoxy herbicide-exposed farm workers in western Washington state	1989	Non-Hodgkin's lymphoma	Self-reported job history	Group-based assessment	Case-control study	Agricultural workers	377	181	196	181	Duration of work as a farmer.	OR	0.92	0.5	1.6	Pesticides in general	USA
Woods 1989. SRE.AI	Non-Hodgkin's lymphoma among phenoxy herbicide-exposed farm workers in western Washington state	1989	Non-Hodgkin's lymphoma	Self-reported exposure	Self-reported exposure	Case-control study	Agricultural workers	377	181	196	NA	Regular work with DDT (yes/no)	OR	1.68	0.9	3.3	DDT	USA
Lerro 2019. Private. JT. GenP	Cancer incidence in the Agricultural Health Study after 20 years of follow-up	2019	Prostate cancer	Job title	Group-based assessment	Prospective cohort	Pesticide applicators (private) (agricultural)	51165	3169		3169	Incidence rates of prostate cancer for private applicators compared with rates for other cancers.	SIR	1.15	1.11	1.19	Pesticides in general	USA
Lerro 2019. Commercial. JT. GenP	Cancer incidence in the Agricultural Health Study after 20 years of follow-up	2019	Prostate cancer	Job title	Group-based assessment	Prospective cohort	Pesticide applicators (commercial) (agricultural)	4708	149		149	Incidence rates of prostate cancer for commercial applicators compared with rates for other cancers.	SIR	1.02	0.86	1.19	Pesticides in general	USA
Kachuri 2017. GenP	Cancer risks in a population-based study of 70,570 agricultural workers; results from the Canadian census health and Environment cohort (CanGHEC)	2017	Prostate cancer	Job title	Group-based assessment	Retrospective cohort	Agricultural workers	70570	2625		2625	Agricultural work compared with other employed members of the cohort.	HR	1.11	1.06	1.16	Pesticides in general	Canada
Lemarchand 2017. JT. GenP	Cancer incidence in the AGRICAN cohort study (2005-2011)	2017	Prostate cancer	Self-reported job history	Group-based assessment	Prospective cohort	Farmers	98794	2538		2032	Work on farm (yes/no).	SIR	1.07	1.03	1.12	Pesticides in general	France
Lemarchand 2017. SRE. GenP	Cancer incidence in the AGRICAN cohort study (2005-2011)	2017	Prostate cancer	Self-reported exposure	Self-reported exposure	Prospective cohort	Farmers	98794	2538		1345	Pesticide use on crops (yes versus no).	SIR	1.09	1.03	1.15	Pesticides in general	France
Burns 2011. AI	Cancer incidence of 2,4-D production workers	2011	Prostate cancer	Job title	Group-based assessment	Prospective cohort	Pesticide manufacturers (male)	1108	62		62	Pesticide manufacturers versus rates for white males as comparison.	SIR	0.74	0.57	0.94	2,4D	USA
Boers 2004. GenP	The influence of occupational exposure to pesticides, polycyclic aromatic hydrocarbons, diesel exhaust, metal dust, metal fumes, and mineral oil on prostate cancer: a prospective cohort study	2005	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Prospective cohort	Population base	58279	1376		27	Cumulative exposure. Third tertile versus no exposure.	RR	0.60	0.37	0.95	Pesticides in general	Netherlands
Fleming 1999. GenP	Cancer incidence in a cohort of licensed pesticide applicators in Florida	1999	Prostate cancer	Pesticide licence	Group-based assessment	Retrospective cohort	Pesticide applicators	33658	353		353	Incidence rates for applicators compared with that of the Florida general population.	SIR	1.91	1.72	2.13	Pesticides in general	USA
Dich 1998. GenP	Prostate cancer in pesticide applicators in Swedish agriculture	1998	Prostate cancer	Pesticide licence	Group-based assessment	Retrospective cohort	Pesticide applicators (agricultural)	20025	401		401	Incidence rates in applicators versus expected rate in Swedish male population.	SIR	1.13	1.02	1.24	Pesticides in general	Sweden
Frost 2011. GenP	Mortality and cancer incidence among British agricultural pesticide users	2011	Prostate cancer	Pesticide licence	Group-based assessment	Prospective cohort	Certified pesticide users (agricultural)	65910	205		205	Incidence rates in applicators versus that in the Great Britain population.	SIR	1.07	0.93	1.22	Pesticides in general	Great Britain
Rafnsson 2006. AI	Cancer incidence among farmers exposed to lindane while sheep dipping	2006	Prostate cancer	Registers	Group-based assessment	Retrospective cohort	Sheep owners	8311	541		541	Incidence rates in sheep owners versus that of the Icelandic male and female population.	SIR	0.92	0.85	1.00	Lindane	Iceland
Lyngre 1998. GenP	Cancer incidence in Danish phenoxy herbicide workers, 1947-1993	1998	Prostate cancer	Registers	Group-based assessment	Retrospective cohort	Pesticide manufacturers	2119	15		15	Workers exposure classified based on their work area listed in personnel files.	SIR	1.00	0.6	1.7	Pesticides in general	Denmark
Zhong 1996. GenP	Cancer incidence among Icelandic pesticide users	1996	Prostate cancer	Pesticide licence	Group-based assessment	Prospective cohort	Certified pesticide users	2449	10		10	Incidence rates in pesticide users versus that of Icelanding male and female population.	SIR	0.70	0.33	1.29	Pesticides in general	Iceland
Kristensen 1996. GenP	Incidence and risk factors of cancer among men and women in Norwegian agriculture	1996	Prostate cancer	Job title	Group-based assessment	Retrospective cohort	Farmers	66080	129		129	Incidence rates in farmers versus in the rural population of Norway.	SIR	0.90	0.75	1.07	Pesticides in general	Norway
Hessel 2004. AI	A nested case-control study of prostate cancer and atrazine exposure	2004	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Nested case-control	Population base	142	12	130	12	Cumulative exposure applied as continuous variable.	OR	1.01	0.95	1.07	Atrazine	USA
Mills 2003. AI	Prostate cancer risk in California farm workers	2003	Prostate cancer	Registers	Group-based assessment	Nested case-control	Farmers	1332	222	1110	33	Exposure according to quartiles of chemical use according to a pesticide use reporting system in California.	OR	2.37	1.22	4.61	Lindane	USA
Band 2011. AI	Prostate cancer risk and exposure to pesticides in British Columbia farmers	2011	Prostate cancer	Job exposure matrix	Expert-level assessment	Case-control study	Farmers	5152	1153	3999	14	Cumulative exposure above median compared with no exposure.	OR	2.31	1.09	4.88	MCPA	Canada

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Fritschi 2007. GenP	Occupational risk factors for prostate cancer and benign prostatic hyperplasia: a case-control study in Western Australia	2007	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	1008	606	402	68	Non-substantial exposure to any pesticides versus not exposed.	OR	1.02	0.69	1.50	Pesticides in general	Australia
Pavuk 2006. Type	Prostate cancer in US Air Force veterans of the Vietnam war	2006	Prostate cancer	Biomonitoring (blood)	Biomonitoring	Retrospective cohort	US Air Force veterans	2578	62	2516	28	Highest cumulative exposure versus lowest.	RR	1.32	0.75	2.34	Herbicides (Agent Orange)	USA
Meyer 2007. GenP	A case-control study of farming and prostate cancer in African-American and Caucasian men	2007	Prostate cancer	Self-reported exposure	Self-reported exposure	Case-control study	Population base	797	405	392	177	Farmers who ever mixed/applied pesticides versus non-farmers.	OR	1.6	1.2	2.2	Pesticides in general	USA
Settimi 2003. Class	Prostate cancer and exposure to pesticides in agricultural settings	2003	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Case-control study	Hospital base	783	124	659	10	More than 15 years of exposure versus non-exposed farmers and non-farmers.	OR	2.7	1.2	6.3	Organochlorine pesticides	Italy
Van der Gulden 1995. GenP	Work environment and prostate cancer risk	1995	Prostate cancer	Self-reported exposure	Self-reported exposure	Case-control study	Cases from cancer registries	2341	469	1872	22	Frequently exposed versus non-exposed. Substantial level of exposure compared with unexposed farmers.	OR	1.47	0.88	2.46	Pesticides in general	Netherlands
Parent 2009. GenP	Does exposure to agricultural chemicals increase the risk of prostate cancer among farmers?	2009	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Case-control study	Farmers	124			17	Exposure to pesticides (yes versus no).	OR	2.3	1.1	5.1	Pesticides in general	Canada
Subahir 2009. GenP	Risk factors for prostate cancer in Universiti Kebangsaan Malaysia Medical Centre: a case-control study	2009	Prostate cancer	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	224	112	112	9	High exposure versus no exposure.	OR	5.57	1.74	17.8	Pesticides in general	Malaysia
Strom 2008. GenP	Prostate cancer in Mexican-Americans: identification of risk factors	2008	Prostate cancer	Job exposure matrix	Expert-level assessment	Case-control study	Population base	350	176	174	48	Substantial pesticide exposure versus exposure in pool of cancer controls and population controls.	OR	3.44	1.84	6.44	Pesticides in general	USA
Aronson 1996. GenP	Occupational risk factors for prostate cancer: results from a case-control study in Montreal, Quebec, Canada	1996	Prostate cancer	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	1999	449	1550	19	Pesticide use (yes versus no).	OR	1.09	0.57	2.08	Pesticides in general	Canada
Ewings 1996. GenP	A case-control study of cancer of the prostate in Somerset and east Devon	1996	Prostate cancer	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	146	40	106	15	Plantation work versus no plantation work.	OR	0.63	0.28	1.42	Pesticides in general	Great Britain
Petrovitch 2002. GenP	Plantation work and risk of Parkinson disease in a population-based longitudinal study	2002	Parkinson's disease	Self-reported job history	Group-based assessment	Prospective cohort	Honolulu Health Program cohort.	7986	116		12	Farmer exposed to pesticides versus unexposed non-farmer.	RR	1.9	1.00	3.5	Pesticides in general	USA
Ascherio 2006. GenP	Pesticide exposure and risk for Parkinson's disease	2006	Parkinson's disease	Self-reported exposure	Self-reported exposure	Prospective cohort	Participants of the Cancer Prevention Study II Nutrition Cohort.	143325	30		13	Highest number of lifetime days of ever use of pesticides compared with lowest number of lifetime days.	RR	1.6	0.9	2.7	Pesticides in general	USA
Shrestha 2020. GenP	Pesticide use and incident Parkinson's disease in a cohort of farmers and their spouses	2020	Parkinson's disease	Self-reported exposure	Self-reported exposure	Prospective cohort	Male pesticide applicators in AHS.	66110	183		82	Occupational pesticide exposure according to job-exposure-matrix.	RR	0.79	0.59	1.06	Pesticides in general	USA
Baldi 2003b. M. GenP	Neurodegenerative Diseases and Exposure to Pesticides in the elderly	2003	Parkinson's disease	Job exposure matrix	Expert-level assessment	Prospective cohort	Elderly French population	1507	10		NA	Occupational pesticide exposure according to job-exposure-matrix.	RR	5.63	1.47	21.57	Pesticides in general	France
Baldi 2003b. W. GenP	Neurodegenerative Diseases and Exposure to Pesticides in the elderly	2003	Parkinson's disease	Job exposure matrix	Expert-level assessment	Prospective cohort	Elderly French population	1507	14		NA	Highest exposure probability level of pesticide exposure versus the lowest.	RR	1.02	0.22	4.82	Pesticides in general	France
Feldman 2011. GenP	Occupational exposure in parkinsonian disorders: a 43-year prospective cohort study in men	2011	Parkinson's disease	Job exposure matrix	Expert-level assessment	Prospective cohort	Population base	14169	204		21	Hospitalization rate due to Parkinson's disease in gardeners versus that of the general population.	HR	0.9	0.5	1.4	Pesticides in general	Sweden
Kenborg 2012. GenP	Parkinson's disease among gardeners exposed to pesticides—a Danish cohort study	2012	Parkinson's disease	Job title	Group-based assessment	Retrospective cohort	Professional male gardeners	3124	28		28	Highest duration of use versus unexposed.	SHR	1.14	0.76	1.65	Pesticides in general	Denmark
Pouchieu 2018. AI	Pesticide use in agriculture and Parkinson's disease in the AGRICAN cohort study	2018	Parkinson's disease	Crop exposure matrix	Expert-level assessment	Prospective cohort	Farmers	149810	1732	148078	28	All men and women in agriculture and horticulture.	OR	1.58	0.48	5.25	Maneb	France
Tuchsen 2000. GenP	Agricultural work and the risk of Parkinson's disease in Denmark, 1981-1993	2000	Parkinson's disease	Job title	Group-based assessment	Prospective cohort	Agricultural workers	128935	134		134	Pesticide use (yes versus no).	SHR	1.32	1.11	1.56	Pesticides in general	Denmark
Koller 1990. GenP	Environmental risk factors in Parkinson's disease	1990	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	hospital_based	300	150	150	39	Occupational pesticide exposure versus non-exposed.	OR	1.08	0.69	1.69	Pesticides in general	USA
Baldi 2003a. GenP	Association between Parkinson's disease and exposure to pesticides in southwestern France	2003	Parkinson's disease	Job exposure matrix	Expert-level assessment	Case-control study	Inhabitants of agricultural region	336	84	252	19	Pesticide exposure in farming versus no pesticide exposure in farming.	OR	2.2	1.11	4.34	Pesticides in general	France
Chan 1998. GenP	Genetic and environmental risk factors for Parkinson's disease in a Chinese population	1998	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	528	215	313	19	Insecticide applications to farm animals/animal areas.	OR	0.75	0.26	2.22	Pesticides in general	China
Dhillon 2008. Type	Pesticide/environmental exposures and Parkinson's disease in East Texas	2008	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	184	100	84	5		OR	4.4	0.5	38.1	Insecticides	USA

Article	Article name	Publication year	Health outcome	Exposure assessment method	Exposure assessment method type	Study design	Study population	Sample size	Number of cases	Number of controls	Number of exposed cases	Exposure definition and comparison	Risk measure	Risk estimate	Lower CI	Upper CI	Type of pesticide	Study location
Dick 2007. GenP	Occupational titles as risk factors for Parkinson's disease	2007	Parkinson's disease	Job title	Group-based assessment	Case-control study	Population base	590	170	420	49	Agricultural work (yes versus no) as defined by ISIC.	OR	1.3	0.84	2.02	Pesticides in general	International
Duzcan 2003. GenP	Familial influence on parkinsonism in a rural area of Turkey (Kizilcabuk-Denizli): A community-based case-control study	2003	Parkinsonism	Self-reported exposure	Self-reported exposure	Case-control study	Population base	144	36	108	15	Pesticide exposure (yes versus no)	OR	2.96	1.31	6.69	Pesticides in general	Turkey
Elbaz 2009. GenP	Professional exposure to pesticides and Parkinson disease	2009	Parkinson's disease	Expert case-by-case assessment	Expert-level assessment	Case-control study	Inhabitants of agricultural region	781	224	557	19	Number of years of professional exposure. More than 38 years of exposure versus no exposure.	OR	2.00	1.00	3.5	Pesticides in general	France
Fall 1999. GenP	Nutritional and occupational factors influencing the risk of Parkinson's disease: a case-control study in southeastern Sweden	1999	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	376	113	263	10	Handling pesticides within any occupation.	OR	3.3	1.00	10.0	Pesticides in general	Sweden
Firestone 2010. JT. M. GenP	Occupational factors and risk of Parkinson's disease: A population-based case-control study	2010	Parkinson's disease	Self-reported job history	Group-based assessment	Case-control study	Population base	578	252	326	8	Pesticide worker compared with subject never exposed.	OR	1.53	0.54	4.35	Pesticides in general	USA
Firestone 2010. SRE. M. GenP	Occupational factors and risk of Parkinson's disease: A population-based case-control study	2010	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	578	252	326	12	Pesticide exposure compared with subject never exposed.	OR	0.6	0.3	1.29	Pesticides in general	USA
Fong 2007. GenP	Pesticide exposure on southwestern Taiwanese with MnSOD and NQO1 polymorphisms is associated with increased risk of Parkinson's disease	2007	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	308	153	155	85	Pesticide use (yes versus no).	OR	1.68	1.03	2.76	Pesticides in general	Taiwan
Frigerio 2006. GenP	Chemical exposures and Parkinson's disease: a population-based case-control study	2006	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	278	149	129	14	Pesticide use in farming (yes versus no).	OR	1.3	0.6	3.1	Pesticides in general	USA
Gorell 1998. SRE. Type	The risk of Parkinson's disease with exposure to pesticides, farming, well water, and rural living	1998	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	608	144	464	NA	Ever versus never exposure to herbicides.	OR	4.1	1.37	12.24	Herbicides	USA
Gorell 1998. JT. GenP	The risk of Parkinson's disease with exposure to pesticides, farming, well water, and rural living	1998	Parkinson's disease	Job title	Group-based assessment	Case-control study	Population base	608	144	464	NA	Farming (yes versus no).	OR	2.79	1.03	7.55	Pesticides in general	USA
Hetzman 1994. M. GenP	A case-control study of Parkinson's disease in a horticultural region of British Columbia	1994	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	131	71	60	33	Pesticide use (yes versus no).	NA	2.32	1.1	4.88	Pesticides in general	Canada
Hetzman 1994. W. GenP	A case-control study of Parkinson's disease in a horticultural region of British Columbia	1994	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	120	56	64	9	Pesticide use (yes versus no).	NA	1.36	0.48	3.85	Pesticides in general	Canada
Kuopio 1999. Type	Environmental Risk Factors in Parkinson's Disease	1999	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	369	123	246	39	Regular and occasional use of herbicides versus regular.	OR	1.02	0.63	1.65	Herbicides	Finland
Liew 2014. GenP	Job exposure matrix (JEM)-derived estimates of lifetime occupational pesticide exposure and the risk of Parkinson's disease	2014	Parkinson's disease	Job exposure matrix	Expert-level assessment	Case-control study	Population base	1107	357	750	43	High cumulative pesticide exposure versus no exposure.	OR	1.55	0.96	2.51	Pesticides in general	USA
McCann 1998. GenP	The Epidemiology of Parkinson's Disease in an Australian population	1998	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Cases and controls from hospitals, residential cares, and community groups.	534	224	310	NA	Exposure to herbicides and pesticides (daily or weekly exposure to industrial herbicides or pesticides for a cumulative period of greater than 6 months).	OR	1.2	0.8	1.5	Herbicides and pesticides	Australia
Moisan 2015. GenP	Association of Parkinson's Disease and Its Subtypes with Agricultural Pesticide Exposures in Men: A Case-Control Study in France	2015	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Farmers	431	133	298	43	Highest quartile versus lowest quartile of cumulative exposure (as defined by cumulative number of applications).	OR	2.31	1.09	4.9	Pesticides in general	France
Narayan 2017. GenP	Occupational pesticide use and Parkinson's disease in the Parkinson Environment Gene (PEG) study	2017	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	1187	360	827	40	Duration of use of pesticides. More than 10 years versus no occupational pesticide use.	OR	1.69	1.01	2.83	Pesticides in general	USA
Rughier 2011. Exp. GenP	Pesticide exposure and risk of Parkinson's disease--a population-based case-control study evaluating the potential for recall bias	2011	Parkinson's disease	Expert case-by-case assessment	Expert-level assessment	Case-control study	Population base	808	403	405	37	Pesticide exposure beyond background.	OR	1.51	0.85	2.69	Pesticides in general	Canada
Rughier 2011. SRE. GenP	Pesticide exposure and risk of Parkinson's disease--a population-based case-control study evaluating the potential for recall bias	2011	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	808	403	405	74	Use or exposure to pesticides.	OR	1.76	1.15	2.7	Pesticides in general	Canada
Semchuk 1992. GenP	Parkinson's disease and exposure to agricultural work and pesticide chemicals	1992	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	390	130	260	NA	Pesticide use (yes versus no).	OR	2.25	1.27	3.99	Pesticides in general	Canada
Tanaka 2011. GenP	Occupational risk factors for Parkinson's disease: a case-control study in Japan	2011	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	618	249	369	15	Pesticide exposure (yes versus no).	OR	0.75	0.37	1.46	Pesticides in general	Japan

Article	Article name	Publication year	Health outcome	Exposure assessment method	Exposure assessment method type	Study design	Study population	Sample size	Number of cases	Number of controls	Number of exposed cases	Exposure definition and comparison	Risk measure	Risk estimate	Lower CI	Upper CI	Type of pesticide	Study location
Tanner 2009, GenP	Occupation and risk of parkinsonism: a multicenter case-control study	2009	Parkinsonism	Self-reported exposure	Self-reported exposure	Case-control study	Hospital base	1030	519	511	44	Pesticide use (yes versus no).	OR	1.9	1.12	3.21	Pesticides in general	USA/Canada
Van der Mark 2014, JEM, GenP	Occupational exposure to pesticides and endotoxin and Parkinson disease in the Netherlands	2014	Parkinson's disease	Job exposure matrix	Expert-level assessment	Case-control study	Hospital base	1320	444	876	38	Highest cumulative exposure versus never exposed.	OR	1.56	0.86	2.83	Pesticides in general	Netherlands
Wright 2005, GenP	Environmental determinants of Parkinson's disease	2005	Parkinson's disease	Self-reported exposure	Self-reported exposure	Case-control study	Population base	235	102	133	9	Occupational pesticide use (yes versus no).	OR	1.2	0.3	4.8	Pesticides in general	USA

JT=job title. SRE=self-reported exposure. JEM=job-exposure matrix. EXP=expert case-by-case assessment. CEM=crop-exposure matrix. GenP=general pesticides. Type=type of pesticide. AI=active ingredient. Private=private pesticide applicator. Commercial=commercial pesticide applicator. Class=class of pesticides. AI=active ingredient. AfrAm=Afro-American. W=women. M=men. NA=not available.