

Studies on the Abortion-Breast Cancer Link

Research Synthesis: [Induced Abortion and Breast Cancer](#)

No.	Year	Reference	OR or RR (95% CI)	Statistically Significant	Positive or Negative Correlation	Country or Population
1	1957	M. Segi, I. Fukushima, S. Fujisaku, M. Kurihara, S. Saito, K. Asano, and M. Kamoi, "An Epidemiological Study on Cancer in Japan," <i>Japanese Journal of Cancer Research (GANN)</i> 48 (Suppl.) (1957): 1-63.	2.63 (1.85-3.75)*	Yes	Positive	Japan
2	1968	H. Watanabe and T. Hirayama, "Epidemiology and Clinical Aspects of Breast Cancer," <i>Nippon Rinsho</i> 26 (1968): 1843-1849 (in Japanese).	1.51 (0.91-2.53)*	No	Positive	Japan
3	1978	V.V. Dvoirin and A.B. Medvedev, "Role of Women's Reproductive Status in the Development of Breast Cancer," in <i>Methods and Progress in Breast Cancer Epidemiology Research</i> , by Tallin (Moscow: Oncology Science Center of the USSR Academy of Sciences, 1978), 53-63 (in Russian).	1.71 (0.80-3.64)*	No	Positive	USSR/ Estonia
4	1979	B. Burany, "Gestational characteristics in women with breast cancer," <i>Jugosil Ginekol Opstet</i> 19 (1979):237-247 (in Serbo-Croatian).	0.50 (0.33-0.74)*	Yes	Negative	Yugoslavia
5	1981	M.C. Pike, B.E. Henderson, J.T. Casagrande, I. Rosario, and G.E. Gray, "Oral Contraceptive Use and Early Abortion as Risk Factors for Breast Cancer in Young Women," <i>British Journal of Cancer</i> 43, no. 1 (1981): 72-76.	2.37 (0.85-6.93)*	No	Positive	United States
6	1982	F. Nishiyama, "The Epidemiology of Breast Cancer in Tokushima Prefecture," <i>Shikoku Ichi</i> 38 (1982): 333-343 (in Japanese).	2.52 (1.99-3.20)*	Yes	Positive	Japan

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7	1983	L.A. Brinton, R. Hoover, and J.F. Fraumeni, Jr., "Reproductive factors in the aetiology of breast cancer," <i>British Journal of Cancer</i> 47, no. 6 (1983): 757-762.	1.34 (.3-5.6) if before first live birth; .89 (.4-2.00) if after first live birth; 5.5 (.8-36.8) if nulliparous	No	Positive/ Negative/ Positive	United States
8	1984	Monique G. Lê, Annie Bacheloti, F. Doyon, A. Kramar, and Catherine Hill, "Oral Contraceptive Use and Breast or Cervical Cancer: Preliminary Results of a French Case-Control Study," in <i>Hormones and Sexual Factors in Human Cancer Aetiology</i> , eds. J.P Wolff and J.S. Scott (Amsterdam: Elsevier, 1984), 139-147.	1.32 (0.97-1.77)*	No	Positive	France
9	1985	T. Hirohata, T. Shigematsu, A.M. Nomura, Y. Nomura, A. Horie, and I. Hirohata, "Occurrence of breast cancer in relation to diet and reproductive history: a case-control study in Fukuoka, Japan," <i>National Cancer Institute Monograph</i> 69 (1985): 187-190.	1.52 (0.93-2.48)	No	Positive	Japan
10	1987	C. La Vecchia, A. Decarli, F. Parazzini, A. Gentile, E. Negri, G. Cecchetti, and S. Franceschi, "General epidemiology of breast cancer in northern Italy," <i>International Journal of Epidemiology</i> 16, no. 3 (1987): 347-355.	1.19 (0.82-1.71) if 1 IA; .78 (.52-1.13) if ≥2 IA	No	Positive/ Negative	Italy
11	1988	M. Ewertz and S.W. Duffy, "Risk of breast cancer in relation to reproductive factors in Denmark," <i>British Journal of Cancer</i> 58, no. 1 (1988): 99-104.	3.85 (1.08-13.6) with IA in nulliparous women	Yes	Positive	Denmark

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12	1988	E. Luporsi, "Breast cancer and alcohol," (PhD thesis, University of Paris-Sud, 1988), data in N. Andrieu, S.W. Duffy, T.E. Rohan, M.G. Lê, E. Luporsi, M. Gerber, R. Renaud, D.G. Zaridze, Y. Lifanova, and N.E. Day, "Familial Risk, Abortion and Their Interactive Effect on the Risk of Breast Cancer—A Combined Analysis of Six Case-Control Studies," <i>British Journal of Cancer</i> 72, no. 3 (1995): 744-751.	1.8 (1.0-3.5) if 1 IA; 1.9 (.5-6.9) if ≥ 2 IA	Marginal/ No	Positive	France
13	1988	D.G. Zaridze data (unpublished) in N. Andrieu, S.W. Duffy, T.E. Rohan, M.G. Lê, E. Luporsi, M. Gerber, R. Renaud, D.G. Zaridze, Y. Lifanova, and N.E. Day, "Familial Risk, Abortion and Their Interactive Effect on the Risk of Breast Cancer—A Combined Analysis of Six Case-Control Studies," <i>British Journal of Cancer</i> 72, no. 3 (1995): 744-751.	1.0 (.7-1.4) if 1 IA; .7 (.6-1.0) if ≥ 2 IA	No/ Marginal	Null/ Negative	Russia
14	1984	M.G. Lê, A. Bachelot, F. Doyon, A. Kramar, and C. Hill, "Oral Contraceptive Use and Breast Cancer or Cervical Cancer: Preliminary Results of a French Case-Control Study," in <i>Hormones and Sexual Factors in Human Cancer Aetiology</i> , eds. J-P Wolff and J.D. Scott (Amsterdam: Elsevier Science, 1984), data in N. Andrieu, S.W. Duffy, T.E. Rohan, M.G. Lê, E. Luporsi, M. Gerber, R. Renaud, D.G. Zaridze, Y. Lifanova, and N.E. Day, "Familial Risk, Abortion and Their Interactive Effect on the Risk of Breast Cancer—A Combined Analysis of Six Case-Control Studies," <i>British Journal of Cancer</i> 72, no. 3 (1995): 744-751.	1.2 (.7-2.1) if 1 IA; 1.9 (1.0-3.6) if ≥ 2 IA	No/ Marginal	Positive	France

No.	Year	Reference	OR or RR (95% CI)	Statistically Significant	Positive or Negative Correlation	Country or Population
15	1988	T. Rohan, A.J. McMichael, and P.A. Baghurst, "A population-based case-control study of diet and breast cancer in Australia," <i>American Journal of Epidemiology</i> 128 (1988): 478-489, data in N. Andrieu, S.W. Duffy, T.E. Rohan, M.G. Lê, E. Luporsi, M. Gerber, R. Renaud, D.G. Zaridze, Y. Lifanova, and N.E. Day, "Familial Risk, Abortion and Their Interactive Effect on the Risk of Breast Cancer—A Combined Analysis of Six Case-Control Studies," <i>British Journal of Cancer</i> 72, no. 3 (1995): 744-751.	2.7 (1.1-6.7) if 1 IA; 2.2 (.4-12.0) if ≥ 2 IA	Yes/ No	Positive	Australia
16	1988	Lynn Rosenberg, Julie R. Palmer, David W. Kaufman, Brian L. Strom, David Schottenfeld, and Samuel Shapiro, "Breast Cancer in Relation to the Occurrence and Time of Induced and Spontaneous Abortion," <i>American Journal of Epidemiology</i> 127 (1988): 981-989.	1.2 (.9-1.6) if parous; 1.3 (.8-2.2) if nulliparous	No	Positive	United States
17	1989	B.M. Lindefors Harris, G. Eklund, O. Meirik, L.E. Rutqvist, and K. Wiklund, "Risk of cancer of the breast after legal abortion during first trimester: a Swedish register study," <i>British Medical Journal</i> 299, no. 6713 (1989): 1430-1432.	0.77 (0.58-0.99)	Yes	Negative	Sweden/ Norway
18	1989	Holly L. Howe, Ruby T. Senie, Helen Bzduch, and Peter Herzfeld, "Early Abortion and Breast Cancer Risk Among Women Under Age 40," <i>International Journal of Epidemiology</i> 18 (1989): 300-304.	1.9 (1.2-3.0)	Yes	Positive	United States
19	1989	Larissa I. Remennick, "Reproductive Patterns and Cancer Incidence in Women: A Population-Based Correlation Study in the USSR," <i>International Journal of Epidemiology</i> 18, no. 3 (September 1989): 498-510.	data not in the form of OR	Yes	Positive	USSR

No.	Year	Reference	OR or RR (95% CI)	Statistically Significant	Positive or Negative Correlation	Country or Population
20	1990	H.O. Adami, R. Bergström, E. Lund, and O. Meirik, "Absence of association between reproductive variables and the risk of breast cancer in young women in Sweden and Norway," <i>British Journal of Cancer</i> 62, no 1 (1990): 122-126.	0.8 (0.5-1.1) if 1 IA; 1.3 (0.6-3.0) if ≥ 2 IA	No	Negative/Positive	Sweden/Norway
21	1991	Fabio Parazzini, Eva Negri, and Carlo La Vecchia, "Spontaneous and induced abortions and risk of breast cancer," <i>International Journal of Cancer</i> 48, issue 6 (1991): 816-820.	1.0 (0.8-1.3) if 1 IA; .9 (.7-1.2) if > 2 IA	No	Null/Negative	Italy
22	1992	Fabio Parazzini, Carlo La Vecchia, Eva Negri, Silvia Franceschi, and Luca Bocciolone, "Menstrual and reproductive factors and breast cancer in women with family history of the disease," <i>International Journal of Cancer</i> 51, issue 5 (1992): 677-681.	1.0 (.4-2.2)	No	Null	Italy
23	1993	A.E. Laing, F.M. Demenais, R. Williams, G. Kissling, V.W. Chen, and G.E. Bonney, "Breast Cancer Risk Factors in African-American Women: The Howard University Tumor Registry Experience," <i>Journal of the National Medical Association</i> 85 (1993): 931-939.	4.7 (2.6-8.4) if IA and diagnosed BC ≥ 50 yrs old; if BC 41-49 yrs old, 2.8 (1.0-8.1); if BC ≤40 yrs old, 1.5 (0.7-3.5)	Yes/Marginal/ No	Positive	United States
24	1993	Carlo La Vecchia, Eva Negri, Silvia Franceschi, Fabio Parazzini, "Long-term impact of reproductive factors on cancer risk," <i>International Journal of Cancer</i> 53, issue 2 (1993): 215-219.	1.0 if 1 IA, ns; .8 if ≥ 2 IA, p < .05	No/ Yes	Null/Negative	Italy
25	1993	Miriam Moseson, Karen L. Koenig, Roy E. Shore, and Bernard S. Pasternack, "The influence of medical conditions associated with hormones on the risk of breast cancer," <i>International Journal of Epidemiology</i> 22, issue 6 (1993): 1000-1009.	1.0 (0.7-1.4)	No	Negative	United States

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26	1994	N. Andrieu, F. Clavel, B. Gairard, L. Piana, A. Bremond, J. Lansac, R. Flamant, and R. Renaud, "Familial risk of breast cancer and abortion," <i>Cancer Detection and Prevention</i> 18, no. 1 (1994): 51-55.	1.2 (0.8-1.8) if 1 IA; .9 (.5-1.7) if ≥ 2 IA	No	Positive/ Negative	France
27	1994	Janet R. Daling, Kathleen E. Malone, Lynda F. Voigt, Emily White, and Noel S. Weiss, "Risk of Breast Cancer among Young Women: Relationship to Induced Abortions," <i>Journal of the National Cancer Institute</i> 86 (1994): 1584-1592.	1.5 (1.2-1.9)	Yes	Positive	United States
28	1994	A.E. Laing, G.E. Bonney, L. Adams-Campbell, et al., "Reproductive and Lifestyle Risk Factors for Breast Cancer in African-American Women," <i>Genetic Epidemiology</i> 11 (1994): A300.	2.44 (1.0-6.0)*	Yes	Positive	United States
29	1995	N. Andrieu, S.W. Duffy, T.E. Rohan, M.G. Lê, E. Luporsi, M. Gerber, R. Renaud, D.G. Zaridze, Y. Lifanova, and N.E. Day, "Familial Risk, Abortion and Their Interactive Effect on the Risk of Breast Cancer—A Combined Analysis of Six Case-Control Studies," <i>British Journal of Cancer</i> 72, no. 3 (1995): 744-751	1.5 (1.1-1.9) if 1 IA	Yes	Positive	Multinational
30	1995	Louise A. Brinton, Janet R. Daling Jr., Jonathan M. Liff, Janet B. Schoenberg, Kathleen E. Malone, Janet L. Stanford, Ralph J. Coates, Marilie D. Gammon, Louise Hanson, and Robert N. Hoover, "Oral contraceptives and breast cancer risk among younger women," <i>Journal of the National Cancer Institute</i> 87 (1995): 827-835.	0.98 (0.8-1.2) 1 IA; 1.02 (0.8-1.4) if ≥ 2 IA	No	Negative/ Positive	United States
31	1995	L. Bu, L.F. Voigt, Z. Yu, K.E. Malone, and J.R. Daling, "Risk of breast cancer associated with induced abortion in a population at low risk of breast cancer," <i>American Journal of Epidemiology</i> 141 (1995): S85 (abstract 337).	2.9 (1.9-4.4) if 1 IA; 3.6 (2.2-6.0) if ≤ 2 IA; 4.5 (1.9-10.7) if BC ≤ 35 yrs old	Yes	Positive	China

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32	1995	Loren Lipworth, Klea Katsouyanni, Anders Ekblom, Karin B. Michels, and Dimitrios Trichopoulos, "Abortion and the Risk of Breast Cancer: A Case-Control Study in Greece," <i>International Journal of Cancer</i> 61 (1995): 181-184.	1.51 (1.24-1.84); 2.06 (1.45-2.9) if IA before FFTP among parous women	Yes	Positive	Greece
33	1996	Janet R. Daling, Louise A. Brinton, Lynda F. Voigt, Noel S. Weiss, Ralph J. Crates, Kathleen E. Malone, Janet B. Schoenberg, and Marilie Gammon, "Risk of Breast Cancer among White Women Following Induced Abortion," <i>American Journal of Epidemiology</i> 144 (1996): 373-380.	1.3 (1.0-1.6) if 1 IA	Marginal	Positive	United States



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