

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 Ginekolo 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 |

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| 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 | |
| 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 |

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| 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 |



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