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## A Woman's Body Type and the Risk of Breast Cancer

### Bibliography

This bibliography is provided as a service to our readers. It is compiled from the entries in the BCERF [Environmental Risk Factors Bibliographic Database](#).

This bibliography is arranged topically. The topics include:

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#### Review Articles and Commentaries

Ballard-Barbash, R. (1994). Anthropometry and breast cancer. *Cancer* 74, 1090-1100.

Ballard-Barbash, R., Birt, D. F., Kestin, M., and King, I. B. (1997). Perspectives on integrating experimental and epidemiologic research on diet, anthropometry and breast cancer. *Journal of Nutrition* 127, 936S-939S.

Bray, G. A. (1997). Progress in understanding the genetics of obesity. *Journal of Nutrition* 127, 940S-942S.

Cold, S., Hansen, S., Overvad, K., and Rose, C. (1998). A women's build and the risk of breast cancer. *European Journal of Cancer* 34, 1163-1174.

Flegal, K. M., Troiano, R. P., and Ballard-Barbash, R. (2001). Aim for a healthy weight: what is the target? *Journal of Nutrition* 131, 440S-450S.

Friedenreich, C. M. (2001). Review of anthropometric factors and breast cancer risk. *European Journal of Cancer Prevention* 10, 15-32.

Hunter, D. J., and Willett, W. C. (1993). Diet, body size, and breast cancer. *Epidemiologic Reviews* 15, 110-129.

Levin, B. E. (2000). The obesity epidemic: Metabolic imprinting on genetically susceptible neural circuits. *Obesity Research* 8, 342-247.

McTiernan, A. (2000). Associations between energy balance and body mass index and risk of breast carcinoma in women from diverse racial and ethnic backgrounds in the U. S. *Cancer* 88, 1248-1255.

Waard, F. D. (1975). Breast cancer incidence and nutritional status with particular reference to body weight and height. *Cancer Research* 35, 3351-3356.

Ziegler, R. G. (1997). Anthropometry and breast cancer. *Journal of Nutrition* 127, 924S-928S.

#### Human Epidemiologic Studies

Adami, H. O., Rimsten, A., Stenkist, B., and Vegelius, J. (1977). Influence of height, weight and obesity on risk of breast cancer in an unselected Swedish population. *British Journal of Cancer* 36, 787-792.

Adams-Campbell, L. L., Kim, S. K., Dunston, G., Laing, A. E., Bonney, G., and Demenais, F. (1996). The relationship of body mass index to reproductive factors in pre- and postmenopausal african-american women with and without breast cancer. *Obesity Research* 4, 451-456.

- Ballard-Barbash, R., and A., S. C. (1996). Body weight: Estimation of risk for breast and endometrial cancers. *American Journal of Clinical Nutrition* 63, 437S-441S.
- Bastarrachea, J., Hortobagyi, G. N., Smith, T. L., Hau, S. W., and Buzdar, A. U. (1994). Obesity as an adverse prognostic factor for patients receiving adjuvant chemotherapy for breast cancer. *Annals of Internal Medicine* 120, 18-25.
- Bezerra, A., Azevedo, G., and Sichieri, R. (2001). Height, weight, weight change and risk of breast cancer in Rio de Janeiro, Brazil. *Sao Paulo Medical Journal* 119, 62-66.
- Bjorntorp, P. (1997). Body fat distribution, insulin resistance, and metabolic diseases. *Nutrition* 13, 795-803.
- Brandt, P. A., Speigelman, D., Yaun, S., Adami, H., Beesman, L., Folsom, A. B., Fraser, G., Goldbohm, R. A., Graham, S., Kushi, L., et al. (2000). Pooled analysis of prospective cohort studies on height, weight, and breast cancer risk. *American Journal of Epidemiology* 152, 514-527.
- Brisson, J., Morrison, A. S., Kopans, D. S., Sadowsky, N. L., Kalisher, L., Twaddle, J. A., Meyer, J. E., Henschke, C. I., and Cole, P. (1984). Height and weight, mammographic features of breast cancer tissue, and breast cancer risk. *American Journal of Epidemiology* 119, 371-381.
- Bruning, P. F., Bonfrer, J. M., Hart, A. A., Noord, P. A., Hoeven, H., Collette, H. J., Battermann, J. J., Jong-Bakker, M., Nooijen, W. J., and Waard, F. (1992). Body measurements, estrogen availability and the risk of human breast cancer: a case-control study. *International Journal of Cancer* 51, 14-19.
- Camoriano, J. K., Loprinzi, C. L., Ingle, J. N., Therneau, T. M., Krook, J. E., and Veeder, M. H. (1990). Weight change in women treated with adjuvant therapy or observed following mastectomy for node-positive breast cancer. *Journal of Clinical Oncology* 8, 1327-1334.
- Chang, S., Buzdar, A. U., and Hursting, S. D. (1998). Inflammatory breast cancer and body mass index. *Journal of Clinical Oncology* 16, 3731-3735.
- Choi, N. W., Howe, G. R., Miller, A. B., Matthews, V., Morgan, R. W., Munan, L., Berch, J. D., Feather, J., Jain, M., and Kelly, A. (1978). An epidemiologic study of breast cancer. *American Journal of Epidemiology* 107, 510-521.
- Cleary, M. P., and Maihle, N. J. (1997). The role of body mass index in the relative risk of developing premenopausal versus postmenopausal breast cancer. *Proceedings of Society for Experimental Biology and Medicine* 216, 28-43.
- Coates, R. J., Uhler, R. J., Hall, H. I., Potischman, N., Brinton, L. A., Ballard-Barbash, R., Gammon, M. D., Brogan, D. R., Daling, J. R., Malone, K. E., et al. (1999). Risk of breast cancer in young women in relation to body size and weight gain in adolescence and early adulthood. *British Journal of Cancer* 81, 167-174.
- Daniell, H. W. (1988). Increase lymph node metastases at mastectomy for breast cancer associated with host obesity, cigarette smoking, age, and large tumor size. *Cancer* 62, 429-435.
- Demark-Wahnefried, W., Rimer, B. K., and Winer, E. P. (1997). Weight gain in women diagnosed with breast cancer. *Journal of the American Dietetic Association* 97, 519-526.
- Dupont, W. D., and Page, D. L. (1987). Breast cancer risk associated with proliferative disease, age at first birth, and a family history of breast cancer. *American Journal of Epidemiology* 125, 769-779.
- Eberlein, T., Simon, R., Fisher, S., and Lippman, M. E. (1985). Height, weight, and risk of breast cancer relapse. *Breast Cancer Research and Treatment* 5, 81-85.
- Egan, K. M., Newcomb, P. A., Titus-Ernstoff, L., Trentham-Dietz, A., Baron, J. A., Willett, W. C., Stampfer, M. J., and Trichopoulos, D. (1999). The relation of breast size to breast cancer risk in postmenopausal women. *Cancer Causes and Control* 10, 115-118.
- Folsom, A. R., Kaye, S. A., Prineas, R. J., Potter, J. D., Gapstur, S. M., and Wallace, R. B. (1990). Increased incidence of carcinoma of the breast associated with abdominal adiposity in postmenopausal women. *American Journal of Epidemiology* 131, 794-803.
- Galanis, D. J., N., K. L., Lee, J., and Le Marchand, L. (1998). Anthropometric predictors of breast cancer incidence and survival in a multiethnic cohort of female residents of Hawaii, United States. *Cancer Causes and Control* 9, 217-224.
- Hall, I. H., Coates, R. J., Uhler, R. J., Brinton, L. A., Gammon, M. D., Brogan, D., Potischman, N., Malone, K. E., and Swanson, C. A. (1999). Stage of breast cancer in relation to body mass index and bra cup size. *International Journal of Cancer* 82, 23-27.
- Herbert, J. R., Augustine, A., Barone, J., Kabat, G. C., Kinne, D. W., and Wynder, E. L. (1988). Weight, height and body mass index in the prognosis of breast cancer: Early results of a prospective study. *International Journal of Cancer* 42,

315-318.

Hirose, K., Tajma, K., Hamajima, N., Takezaki, T., Inoue, M., Kuroishi, T., Miura, S., and Tokudome, S. (1999). Effect of body size on breast-cancer risk among Japanese women. *International Journal of Cancer* 80, 349-355.

Holmberg, L., Lund, E., Bergstrom, R., Adami, H., and Meirik, O. (1994). Oral contraceptives and prognosis in breast cancer: effects of duration, latency, recency, age at first use and relation to parity and body mass index in young women with breast cancer. *European Journal of Cancer* 30A, 351-354.

Hsieh, C. C., and Trichopoulos, D. (1991). Breast size, handedness, and breast cancer risk. *European Journal of Cancer* 27, 131-135.

Hsieh, C.-C., Trichopoulos, D., Katsouyanni, K., and Yuasa, S. (1990). Age at menarche, age at menopause, height and obesity as risk factors for breast cancer: Associations and interactions in an international case-control study. *International Journal of Cancer* 46, 796-800.

Huang, Z., Hankinson, S. E., Colditz, G. A., Stampfer, M. J., Hunter, D. J., Manson, J. E., Hennekens, C. H., Rosner, B., Speizer, F. E., and Willett, W. C. (1997). Dual effects of weight and weight gain on breast cancer risk. *Journal of the American Medical Association* 278, 1407-1411.

Huang, Z., Willett, W. C., Colditz, G. A., Hunter, D. J., Manson, J. E., Rosner, B., Speizer, F. E., and Hankinson, S. E. (1999). Waist circumference, waist:hip ratio, and risk of breast cancer in the Nurses' Health Study. *American Journal of Epidemiology* 150, 1316-1324.

Isaacs, C., Stearns, V., and Hayes, D. F. (2001). New prognostic factors for breast cancer recurrences. *Seminars in Oncology* 28, 53-67.

Jasienska, G., Thune, I., and Ellison, P. T. (2000). Energetic factors, ovarian steroids and the risk of breast cancer. *European Journal of Cancer Prevention* 9, 231-239.

Jensen, M. (1997). Health consequences of fat distribution. *Hormone Research* 48, 88-92.

Kaaks, R., Van Noord, P. A. H., Tonkelaar, I. D., Peeters, P. H. M., Riboli, E., and Grobbee, D. (1998). Breast-cancer incidence in relation to height, weight and body-fat distribution in the Dutch "dom" cohort. *International Journal of Cancer* 76, 647-651.

Kahn, S. E., Prigeon, R. L., Schwartz, R. S., Fujimoto, W. Y., Knopp, R. H., Bruzell, J. D., and Porte, D. J. (2001). Obesity, body fat distribution, insulin sensitivity and islet B-cell function as explanations for metabolic diversity. *Journal of Nutrition* 131, 354S-360S.

Katariya, R. N., Forrest, A. P., and Gravelle, I. H. (1974). Breast volumes in cancer of the breast. *British Journal of Cancer* 29, 270-273.

Kato, I., Beinart, C., Bleich, A., Su, S., Kim, M., and Toniolo, P. G. (1995). A nested case-control study of mammographic patterns, breast volume, and breast cancer (New York city, NY, United States). *Cancer Causes and Control* 6, 431-438.

Katoh, A., Watzlaf, V. J. M., and Amico, F. D. (1994). An examination of obesity and breast cancer survival in post-menopausal women. *British Journal of Cancer* 70, 928-933.

Kelsey, J. L., and Baron, J. (1997). Weight and risk for breast cancer. *Journal of the American Medical Association* 278, 1407-1411.

Kelsey, J. L., and Baron, J. (1997). Weight and risk for breast cancer. *Journal of the American Medical Association* 278, 1407-1411.

Kolonel, L. N., Nomura, A. M., Lee, J., and Hirohata, T. (1986). Anthropometric indicators of breast cancer risk in postmenopausal women in Hawaii. *Nutrition and Cancer* 8, 247-256.

Kumar, N. B., Cantor, A., Allen, K., and Cox, C. E. (2000). Android obesity at diagnosis and breast carcinoma survival. *Cancer* 88, 2751-2757.

Kumar, N. B., Lyman, G. H., Allen, K., Cox, C. E., and Schapira, D. V. (1995). Timing of weight gain and breast cancer risk. *Cancer* 76, 243-249.

Kvale, G., Heuch, I., and Nilssen, S. (1992). Age at menarche and obesity as risk factors for breast cancer. Evidence of an interaction. *International Journal of Cancer* 51, 839.

Kwa, H. G., Cleton, F., Bulbrook, R. D., Wang, D. Y., and Hayward, J. L. (1981). Plasma prolactin levels and breast cancer: relation to parity, weight and height, and age at first birth. *International Journal of Cancer* 28, 31-34.

- Kyogoku, S., Hirohata, T., Takeshita, S., Hirota, Y., and Shigematsu, T. (1990). Anthropometric indicators of breast cancer risk in Japanese women in Fukuoka. *Japanese Journal of Cancer* 81, 731-737.
- La Vecchia, C., Negri, E., Franceschi, S., Talamini, R., Bruzzi, P., Palli, D., and Decarli, A. (1997). Body mass index and post-menopausal breast cancer: An age-specific analysis. *British Journal of Cancer* 75, 441-444.
- Li, C. I., Malone, K. E., White, E., and Daling, J. R. (1997). Age when maximum height is reached as a risk factor for breast cancer among young U.S. women. *Epidemiology* 8, 559-565.
- Li, C. I., Stanford, J. L., and Daling, J. R. (2000). Anthropometric variables in relation to risk of breast cancer in middle-aged women. *International Journal of Epidemiology* 29, 208-213.
- Lipworth, L., Adami, H., Trichopoulos, D., Carlstrom, K., and Mantzoros, C. (1995). Serum steroid hormone levels, sex hormone-binding globulin, and body mass index in the etiology of postmenopausal breast cancer. *Epidemiology* 7, 96-100.
- London, S. J., Colditz, G. A., Stampfer, M. J., Willett, W. C., Rosner, B. A., and Speizer, F. E. (1989). Prospective study of smoking and the risk of breast cancer. *Journal of the National Cancer Institute* 81, 1625-1631.
- Maehle, B. O., and Tretli, S. (1996). Pre-morbid body-mass-index in breast cancer: reversed effect on survival in hormone receptor negative patients. *Breast Cancer Research and Treatment* 41, 123-130.
- Magnusson, C., Baron, J., Persson, I., Wolk, A., Bergstrom, R., Trichopoulos, D., and Adami, H. (1998). Body size in different periods of life and breast cancer risk in post-menopausal women. *International Journal of Cancer* 76, 29-34.
- Manjer, J., Kaaks, R., Riboli, E., and Berglund, G. (2001). Risk of breast cancer in relation to anthropometry, blood pressure, blood lipids and glucose metabolism: A prospective study within the Malmo Preventive Project. *European Journal of Cancer Prevention* 10, 33-42.
- Mannisto, S., Pietinen, P., Pyy, M., Palmgren, J., Eskelinen, M., and M., U. (1996). Body-size indicators and risk of breast cancer according to menopause and estrogen-receptor status. *International Journal of Cancer* 68, 8-13.
- Mannisto, S., Pietinen, P., Pyy, M., Palmgren, J., Eskelinen, M., and M., U. (1996). Body-size indicators and risk of breast cancer according to menopause and estrogen-receptor status. *International Journal of Cancer* 68, 8-13.
- Negri, E., Vecchia, C. L., Bruzzi, P., Dadanoni, G., Decarli, A., Palli, D., Parazzini, F., and Turco, M. R. D. (1988). Risk factors for breast cancer: pooled results from three Italian case-control studies. *American Journal of Epidemiology* 128, 1207-1215.
- Nestler, J. E. (2000). Obesity, insulin, sex steroids and ovulation. *International Journal of Obesity and Related Metabolic Disorders* 24, S71-S73.
- Newman, S. C., Lees, A. W., and Jenkins, H. J. (1997). The effect of body mass index and oestrogen receptor level on survival of breast cancer patients. *International Journal of Epidemiology* 26, 484-490.
- Obermair, A., Kurz, C., Hanzal, E., Bancher-Todesca, D., Thoma, M., Bodish, A., Kubista, E., Kyral, E., Kaider, A., and Sevelda, P. (1995). The influence of obesity on the disease-free survival in primary breast cancer. *Anticancer Research* 15, 2265-2269.
- Olson, J. E., Anderson, K. E., Cerhan, J. R., Folsom, A. R., and Sellers, T. A. (2000). An investigation of the biological basis of an interaction of abdominal fat distribution and family history of breast cancer. A nested study of sisters in the Iowa women's health study (united states). *Cancer Causes and Control* 11, 941-954.
- Olson, J. E., Atwood, L. D., Grabrick, D. M., Vachon, C. M., and Sellers, T. A. (2001). Evidence for a major gene influence on abdominal fat distribution: The Minnesota Breast Cancer Family Study. *Genetic Epidemiology* 20, 458-454-478.
- Palmer, J. R., Rosenberg, L., Harlap, S., Strom, B. L., Warshauer, M. E., Zauber, A. G., and Shapiro, S. (1995). Adult height and risk of breast cancer among US black women. *American Journal of Epidemiology* 141, 845-849.
- Sala, E., Warren, R., McCann, J., Duffy, S., Luben, R., and Day, N. (1999). High-risk mammographic parenchymal patterns and anthropometric measures: a case-control study. *British Journal of Cancer* 81, 1257-1261.
- Schapira, D. V., Clark, R. A., Wolff, P. A., Jarrett, A. R., Kumer, N. B., and Aziz, N. M. (1994). Visceral obesity and breast cancer risk. *Cancer* 74, 632-639.
- Schapira, D. V., Kumar, N. B., and Lyman, G. H. (1993). Variation in body fat distribution and breast cancer risk in the families of patients with breast cancer and control families. *Cancer* 71, 2764-2768.
- Schapira, D. V., Kumar, N. B., Lyman, G. H., and Cox, C. E. (1990). Abdominal obesity and breast cancer risk. *Annals of Internal Medicine* 112, 182-186.

- Schreier, L. E., Berg, G. A., Bastilio, F. M., Lopez, G. I., Etkin, A. E., and Wikinski, R. L. (1999). Lipoprotein alterations, abdominal fat distribution and breast cancer. *Biochemical and Molecular Biology International* 47, 681-690.
- Senie, R. T., Rosen, P. P., Rhodes, P., Lesser, M. L., and Kinne, D. W. (1992). Obesity at diagnosis of breast carcinoma influences duration of disease-free survival. *Annals of Internal Medicine* 116, 26-32.
- Senie, R. T., Saftlas, A. F., Brinton, L. A., and Hover, R. N. (1993). Is breast size a predictor of breast cancer risk or the laterality of the tumor. *Cancer Causes and Control* 4, 203-208.
- Swanson, C. A., Jones, D. Y., Schatzkin, A., Brinton, L. A., and Ziegler, R. G. (1988). Breast cancer risk assessed by anthropometry in the NHANES I epidemiological follow-up study. *Cancer Research* 48, 5363-5364.
- Tavani, A., Pregnolato, A., La Vecchina, C., Negri, E., Favero, A., and Franceschi, S. (1996). Breast size and breast cancer risk. *European Journal of Cancer Prevention* 5, 337-342.
- Tchernof, A., and Despres, J. P. (2000). Sex steroid hormones, sex hormone-binding globulin, and obesity in men and women. *Hormone and Metabolic Research* 32, 526-536.
- Thurfjell, E., Hsieh, C. C., Lipworth, L., Ekbom, A., Adami, H. O., and Trichopoulos, D. (1996). Breast size and mammographic pattern in relation to breast cancer risk. *European Journal of Cancer Prevention* 5, 37-41.
- Tonkelaar, I. D., Seidell, J. C., Collette, H. J. A., and Waard, F. D. (1994). A prospective study on obesity and subcutaneous fat patterning in relation to breast cancer in post-menopausal women participating in the DOM project. *British Journal of Cancer* 69, 352-357.
- Tonkelaar, I. D., Seidell, J. C., Collette, H. J. A., and Waard, F. D. (1992). Obesity and subcutaneous fat patterning in relation to breast cancer in postmenopausal women participating in the diagnostic investigation of mammary cancer project. *Cancer* 69, 2663-2667.
- Tornberg, S. A., Holm, L. E., and Carstensen, J. M. (1988). Breast cancer risk in relation to serum cholesterol serum beta-lipoprotein, height, weight, and blood pressure. *Acta Oncologica* 27, 31-37.
- Trentham-Diaz, A., Newcomb, P. A., Egan, K. M., Titus-Ernstoff, L., Baron, J. A., Storer, B. E., Stampfer, M., and Willett, W. C. (2000). Weight change and risk of postmenopausal breast cancer (United States). *Cancer Causes and Control* 11, 533-542.
- Tretli, S. (1989). Height and weight in relation to breast cancer morbidity and mortality, a prospective study of 570,000 women in Norway. *International Journal of Cancer* 44, 23-30.
- Tretli, S., Haldorsen, T., and Ottestad, L. (1990). The effect of pre-morbid height and weight on the survival of breast cancer patients. *British Journal of Cancer* 62, 299-303.
- Ursin, G., Longnecker, M. P., Haile, R. W., and Greenland, S. (1995). A meta-analysis of body mass index and risk of premenopausal breast cancer. *Epidemiology* 6, 137-141.
- van den Brandt, P., Dirx, M. J. M., Ronchers, C. M., van den Hoogen, P., and Goldbohm, R. A. (1997). Height, Weight, weight change, and postmenopausal breast cancer risk: the Netherlands cohort study. *Cancer Causes and Control* 8, 39-47.
- Varela, G., Carbajal, A., Nunez, C., Belmonte, S., and Moreiras, O. (1996). Influence of energetic intake and body mass rate on breast cancer incidence. Case-control study on three hospitable spanish populations. *Hospital Nutrition* 11, 54-58.
- Vatten, L. J., and Kvinnslund, S. (1990). Body height and risk of breast cancer. a prospective study of 23,831 Norwegian women. *British Journal of Cancer* 61, 881-885.
- Vatten, L. J., and Kvinnslund, S. (1992). Prospective study of height, body mass index and risk of breast cancer. *Acta Oncologica* 31, 195-200.
- Verreault, R., Brisson, J., Deschenes, L., and Naud, F. (1989). Body weight and prognostic indicators in breast cancer. Modifying effect of estrogen receptors. *American Journal of Epidemiology* 129, 260-268.
- Waard, F. D., Cornelis, J. P., Aoki, K., and Yoshida, M. (1977). Breast cancer incidence according to weight and height in two cities of the Netherlands and in Aichi prefecture, Japan. *Cancer* 40, 1269-1275.
- Weiss, H. A., Brinton, L. A., Brogan, D., Coates, R. J., Gammon, M. D., Malone, K. E., Schoenberg, J. B., and Swanson, C. A. (1996). Epidemiology of in situ and invasive breast cancer in women aged under 45. *British Journal of Cancer* 73, 1298-1305.
- Willett, W. C., Stampfer, M. J., Speizer, F. E., Rosner, B., and London, S. J. (1990). Relative weight, height and risk of breast cancer. *Journal of the American Medical Association* 263, 3148.

Zhang, S., Folsom, A. R., Sellers, T. A., Kushi, L. H., and Potter, J. D. (1995). Better breast cancer survival for postmenopausal women who are less overweight and eat less fat. *Cancer* 76, 275-283.

Ziegler, R. G., Hoover, R. N., Nomura, A. M. Y., West , D. W., Wu, A. H., Pike, M. C., Lake, A. J., Horn-Ross, P. L., Kolonel, L. N., Siiteri, P. K., and Joseph, J. F. (1996). Relative weight, weight change, height, and breast cancer risk in Asian-American women. *Journal of the National Cancer Institute* 88, 650-660.

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Prepared by Barbour S. Warren, Ph.D., Research Associate., BCERF.

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Program on Breast Cancer and Environmental Risk Factors  
Cornell University, College of Veterinary Medicine  
Vet Box 31, Ithaca, NY 14853-6401  
Phone: 607.254.2893; Fax: 607.254.4730  
Email: [breastcancer@cornell.edu](mailto:breastcancer@cornell.edu)

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