

Cancer and Genetics: Part I

Prepared by Martha Weinar, MS, RN, Kathleen Calzone, RN, MSN, APNG,
and Bridget LeGrazie, MSN, RN, AOCN®, APN, C

This is the first in a series of bibliographies introducing readers to the role of genetics in cancer. These articles represent a variety of resources covering various related topics. Certain themes are more specific to hereditary cancer, whereas others address sporadic cancer. These articles are intended to serve as a vehicle from which readers can research other references.

Included in Part I are the following topics.

- Cultural aspects of cancer genetics, with an emphasis on Native Americans, African Americans, Hawaiians, Japanese, and Ashkenazi Jews
- Legal and ethical issues in cancer genetics, focusing on essential competencies of nurses, discrimination, informed

consent, and indications for genetic assessment and testing

- Pharmacogenetics and cancer, concentrating on current and future applications of research being conducted in this field
- Psychological aspects of genetics in cancer limited to inherited susceptibility to cancer, including hereditary breast or ovarian cancer, hereditary nonpolyposis colon cancer, and multiple endocrine neoplasia

This collection of articles represents current clinical research and nursing research. Some references have been included as learning tools and focus on a particular subject. Others are review articles, which provide the reader with a more comprehensive view of a topic.

Cultural Aspects of Cancer Genetics

- Baty, B.J., Kinney, A.Y., & Ellis, S.M. (2003). Developing culturally sensitive cancer genetics communication aids for African Americans. *American Journal of Medical Genetics*, 118A, 146–155.
- Burhansstipanov, L., Bemis, L.T., & Dignan, M.B. (2001). Native American cancer education: Genetic and cultural issues. *Journal of Cancer Education*, 16, 142–145.
- Glanz, K., Grove, J., Lerman, C., Gotay, C., & Le Marchand, L. (1999). Correlates of intentions to obtain genetic counseling and colorectal cancer gene testing among at-risk relatives from three ethnic groups. *Cancer Epidemiology, Biomarkers and Prevention*, 8, 329–336.
- Lehmann, L.S., Weeks, J.C., Klar, N., & Garber, J.E. (2002). A population-based study of Ashkenazi Jewish women's attitude toward genetic discrimination and BRCA1/2 testing. *Genetics Medicine*, 4, 346–352.
- Lerman, C., Hughes, C., Benkendorf, J.L., Biesecker, B., Kerner, J., Willison, J., et al. (1999). Racial differences in testing motivation and psychological distress following pretest education for BRCA1 gene testing. *Cancer Epidemiology, Biomarkers and Prevention*, 8, 361–367.
- Lewis, L.J. (2002). Models of genetic counseling and their effects on multicultural genetic counseling. *Journal of Genetic Counselors*, 11, 193–212.

- Meiser, B., Eisenbruch, M., Barlow-Stewart, K., Tucker, K., Steel, Z., & Goldstein, D. (2001). Cultural aspects of cancer genetics: Setting a research agenda. *Journal of Medical Genetics*, 38, 425–429.
- Olopade, O.I., Fackenthal, J.D., Dunston, G., Tainsky, M.A., Collins, F., & Whitfeld-Broome, C. (2003). Breast cancer genetics in African Americans. *Cancer*, 97(1 Suppl.), 236–245.
- Schwartz, M.D., Benkendorf, J., Lerman, C., Isaac, C., Ryan-Robertson, A., & Johnson, L. (2001). Impact of educational print materials on knowledge, attitudes, and interest in BRCA1/2: Testing among Ashkenazi Jewish women. *Cancer*, 92, 932–940.

Legal and Ethical Issues in Cancer Genetics

- American Society of Clinical Oncology. (2003). American Society of Clinical Oncology policy statement update: Genetic testing for cancer susceptibility. *Journal of Clinical Oncology*, 21(12), 2397–2406.
- Burke, W., Pinsky, L.E., & Press, N.A. (2001). Categorizing genetic tests to identify their ethical, legal, and social implications. *American Journal of Medical Genetics*, 106, 233–240.
- Calzone, K., Jenkins, J., & Masny, A. (2002). Core competencies in cancer genetics for advanced

practice nurses. *Oncology Nursing Forum*, 29, 1327–1333.

- Cassells, J.M., Jenkins, J., Lea, D.H., Calzone, K., & Johnson, E. (2003). An ethical assessment framework for addressing global genetic issues in clinical practice. *Oncology Nursing Forum*, 30, 383–390.
- Frank-Stromborg, M., & Ganschow, J.R. (2002). Legal issues in the early detection and monitoring of cancer. *Seminars in Oncology Nursing*, 18, 128–134.
- Geller, G., Botkin, J., Green, M., Press, N., Biesecker, B., Wilfond, B., et al. (1997). Genetic testing for susceptibility to adult-onset cancer: The process and content of informed consent. *JAMA*, 277, 1467–1474.

Martha Weinar, MS, RN, is a nurse coordinator for the Risk Evaluation Program in Abraham Cancer Center at the University of Pennsylvania in Philadelphia; Kathleen Calzone, RN, MSN, APNG, is a nurse specialist in research for the National Cancer Institute Center for Cancer Research Genetics Branch at the National Naval Center in Bethesda, MD; and Bridget LeGrazie, MSN, RN, AOCN®, APN, C, is manager of the Family Risk Assessment Program at Fox Chase Virtua Health Cancer Program in Mount Holly, NJ.

Digital Object Identifier: 10.1188/03.ONF.921-922