RURAL HEALTH FACTS

The Burden of Breast Cancer in North Dakota

Summer 2006

What Is Breast Cancer?¹

Breast cancer is a malignant tumor that starts from cells in the breast. It mainly occurs in women, but some men do get breast cancer.

Breast Cancer in the United States²

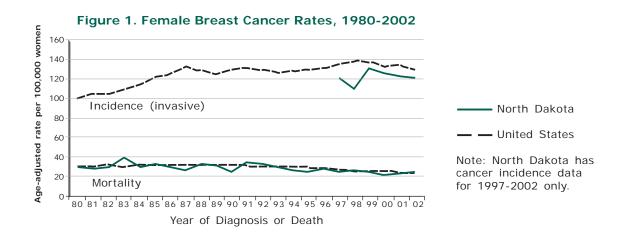
- Breast cancer is the most common cancer in women.
- It is the second leading cause of cancerrelated deaths in women.
- An estimated 213,000 new cases of invasive breast cancer will be diagnosed among women in 2006.
- An estimated 41,000 breast cancer deaths will occur among women in 2006.
- Currently, about 2 million women have been treated for breast cancer.
- One in eight women will develop invasive breast cancer in her lifetime.
- One in 33 women will die from invasive breast cancer.
- Breast cancer deaths are decreasing due in part to early detection and better treatments (Figure 1).

Risk Factors¹

- Advanced age
- Inherited genetic mutations
- Personal or family history of breast cancer
- High breast tissue density
- Starting menstruation early (before age 12) and/or ending late in life (after age 50)
- Obesity
- Recent use of oral contraceptives
- Post menopausal hormone therapy
- Never having children or having children after the age of 30
- Consumption of one or more alcoholic beverages a day

Breast Cancer in North Dakota³

- Breast cancer is the most commonly diagnosed cancer in women (about 450 new cases per year).
- It is the second leading cancer-related cause of death (Figure 3).
- In 2000, there were approximately 5,000 women living with breast cancer.
- North Dakota incidence rates are slightly lower, but mortality rates are comparable to national rates (Figure 1).



University of North Dakota School of Medicine and Health Sciences

Figure 2. North Dakota Cancer Cases,

Females, 1997-2002

8,366 cases

32% Breast

- 14% Colon/Rectum
- 10% Lung/Bronchus
- 6% Corpus/Uterus
- 4% Non-Hodgkin Lymphoma

Figure 3. North Dakota Cancer Deaths Females, 1999-2003

3,143 cases

20% Lung/Bronchus

16% Breast

11% Large Intestine

- 6% Pancreas
- 5% Ovary

Signs and Symptoms¹

The earliest sign of breast cancer is usually an abnormality that is detected on a mammogram before any physical symptoms arise. When physical symptoms do arise, they may include:

- ✤ A breast lump.
- Redness or scaliness of the nipple or breast skin.
- Swelling of part of the breast.
- Skin irritation or dimpling.
- Nipple pain or nipple turning inward.
- Nipple discharge other than breast milk.

Treatment¹

- Surgery
- Chemotherapy
- Radiation
- Hormone therapy

Prevention¹

- Get yearly mammograms and clinical breast exams (CBE) after age 40.
- Women in their 20s and 30s should get a CBE every three years.

- Practice monthly breast self-exams starting at age 20.
- Medicine In clinical studies involving women with increased risk for breast cancer, tamoxifen has been found to reduce the risk of recurrence in localized breast cancer.

References

- American Cancer Society. (2006). Detailed Guide: Breast Cancer. http://www.cancer.org/ docroot/CRI/CRI_2_3x.asp?dt=5
- ² American Cancer Society. (2006). *Cancer Facts and* Figures 2006. Atlanta: American Cancer Society.
- ³ North Dakota Cancer Registry. (2004). Bismarck, ND: Division of Cancer Prevention and Control. North Dakota Department of Health.

The Center for Rural Health at the University of North Dakota School of Medicine and Health Sciences is assisting the North Dakota Department of Health in studying the burden of cancer upon North Dakotans. Results of this research are being used by the state Cancer Planning Committee to develop a plan for reducing the adverse impact of this disease on the lives and families of North Dakota residents.

This fact sheet is a product of the North Dakota Comprehensive Cancer Control project, with data collected by the North Dakota Cancer Registry participating in the National Program of Cancer Registries, and jointly funded by the U.S. Centers for Disease Control and Prevention. For more information, contact:

North Dakota Department of Health **Division of Cancer Prevention and Control** 600 East Boulevard Ave., Dept. 301 Bismarck, ND 58505-0200 Tel: (800) 280-5512 Fax: (701) 328-2036 http://www.ndhealth.gov/cancer/



For more information, contact: Kyle Muus, PhD, (701) 777-4048 klmuus@medicine.nodak.edu

Center for Rural Health

University of North Dakota School of Medicine & Health Sciences PO Box 9037

Grand Forks, ND 58202-9037 Tel: (701) 777-3848 Fax: (701) 777-6779 http://medicine.nodak.edu/crh http://www.raconline.org



