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Breast cancer is the subsequent driving reason for disease in women. Assessments show an almost 40% Breast cancer mortality decrease when screening ladies every year beginning at age 40. In spite of the fact that mammography is notable to be an incredible screening apparatus in the location of early bosom malignancy, it is flawed, especially for ladies with thick bosoms. In ladies with thick bosom tissue, the affectability of mammography is diminished. Furthermore, ladies with thick bosoms have an expanded danger of creating bosom malignant growth while mammography has a lower affectability. Screening ultrasound, both handheld and robotized, is successful in identifying mammographic ally mysterious disease in ladies with thick tissue. Studies have indicated that ultrasound essentially expands recognition of clinically significant, little, generally intrusive, hub negative malignancies.

Breast ultrasound uses sound waves to make a computer picture of the inside of the breast. It can show certain breast changes, like fluid-filled cysts, that are harder to identify on mammograms. Ultrasound is useful for looking at some breast changes, such as lumps (especially those that can be felt but not seen on a mammogram) or changes in women with dense breast tissue. It also can be used to look at a suspicious area that was seen on a mammogram. Ultrasound is useful because it can often tell the difference between fluid-filled cysts (which are very unlikely to be cancer) and solid masses (which might need further testing to be sure they’re not cancer).

A gel is put on the skin of the breast, and a wand-like instrument called a transducer is moved over the skin. The transducer sends out sound waves and picks up the echoes as they bounce off body tissues. The echoes are made into a picture on a computer screen. You might feel some pressure as the transducer is moved across the breast, but it should not be painful.

In detecting vulvar neoplasms, visual inspection of the entire perineum coupled with palpation to include Bartholin’s glands and early biopsy of suspicious vulvar lesions promotes earlier diagnosis. Self-examination similar to breast self-examination and increased patient awareness are potential education goals for physicians as well as cancer and medical societies. Vaginal examination at the cancer checkout should continue. The finding that most vaginal cancers are picked up by abnormal cytology while they are still asymptomatic argues strongly for Pap testing after menopause.

The death rates from breast and cervical cancer are increasing in countries with limited resources. Mammography is the gold standard for breast cancer screening with proven reduction in mortality in populations who are regularly screened. PAP and HPV testing for cervical cancer has the same proven mortality reduction in populations regularly screened. The implementation of screening programs in countries with limited resources is an ongoing work in progress, the initiation and maintenance limited by financial, infrastructural and political constraints. Breast cancer screening with ultrasound, as it has become increasingly performed and studied has been shown to diagnose early as well as invasive cancers that are small, node negative and require less extensive treatment. There is no currently accepted ultrasound screening protocol for cervical, uterine and ovarian cancer. Yet, cancer in these organs is well demonstrated by ultrasound and can be diagnosed in early stages. The use, quality and application of ultrasound in countries with limited resources have increased in the past decade as the equipment has become less expensive, more portable, and more available. The best chance to improve cancer outcomes in these countries in the short and even long term is through interventions that are realistic, practical and cost-effective. This research evaluates the current status and potential for ultrasound screening for breast and gynecologic cancers as it would benefit populations with limited resources.

Biography
Annina N Wilkes completed a Fellowship in Breast Imaging and Ultrasound at The Thomas Jefferson University Hospital and has remained on Staff there for the past 27 years as Clinical Associate Professor specializing in Breast Imaging and Diagnostic Ultrasound. She has served as Director of the Breast Imaging Center and has been actively involved in research throughout her career participating in clinical trials in digital mammography and breast ultrasound screening. She is currently involved in research in breast ultrasound contrast agents. She has served as an International Visiting Professor through the Radiologic Society of North America evaluating the best practice screening method for reducing mortality from breast and gynecologic cancer in countries with limited resources.

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