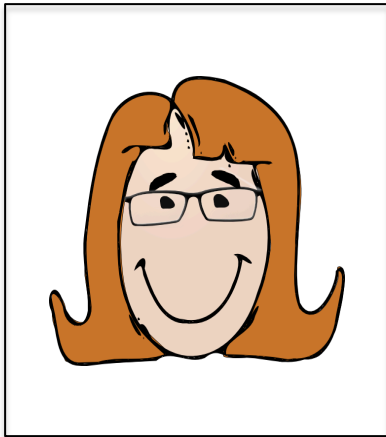


Patient 2's Chart



Name: Amy Smith

Health ID #: 759217

Age: 45

Weight: 62 kg

Clinical Diagnosis: Stage II Breast Cancer

Pathology Report

Stage of cancer: Stage II → The tumour is larger than 2 centimeters but not larger than 5 centimeters and has not spread to the axillary lymph nodes

Tumour size: 3.5 cm in the left breast

Rate of cancer growth: High

Presence of blood vessels (angiogenesis): High

Invasion Status: Low (no metastasis observed)

Additional Sequencing Results

BRCA1 mutation: Negative

HER2 status:* Negative

Gene X mutation: Lead to expression of a drug-efflux pump that makes the cancer cells resistant to chemotherapy Drugs A and C

Gene Y mutation: Negative

*Note: The HER2 gene is responsible for making HER2 proteins. These proteins are receptors on breast cells. Under normal circumstances, HER2 receptors help control how a breast cell grows, divides, and repairs itself. Breast cancers that have amplified HER2 genes or that overexpress the HER2 protein are HER2-positive and cause the breast cancer cells to grow and divide faster than HER2-negative.