Patterns of Care in Medical Oncology

Adjuvant and Neoadjuvant Therapy for HER2-Positive Breast Cancer

A 60-year-old woman has a core biopsy as follows: 4.8-cm, ER-positive, HER2-positive, node-positive IDC (3 sentinel nodes). The patient wishes to undergo breast-conserving surgery, which will be difficult or impossible without shrinkage of the breast mass.

Which of the following would be your most likely recommendation for this patient?

Neoadjuvant TCH	65%
Neoadjuvant AC → TH	25%
Neoadjuvant paclitaxel/trastuzumab → FEC/trastuzumab	5%
Mastectomy	4%
Other	1%

A 60-year-old woman has a core biopsy as follows: 4.8-cm, ER-positive, HER2-positive, node-positive IDC (3 sentinel nodes). The patient wishes to undergo breast-conserving surgery, which will be difficult or impossible without shrinkage of the breast mass. She receives TCH (docetaxel/carbo-platin/trastuzumab) for 6 cycles.

In addition to endocrine therapy, which of the following would you most likely recommend as systemic postop treatment if this patient had...

A pathologic complete response			
Trastuzumab to 1 year completion	88%		
More chemotherapy (with trastuzumab)	11%		
No further chemotherapy or trastuzumab	1%		
Significant residual disease (3 positive nodes, 2-cm primary tumor mass)			
Trastuzumab to 1 year completion			
More chemotherapy (with trastuzumab)	40%		
Other	1%		

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Clinical Scenario 15: A woman has a 2.2-cm, ER-positive, HER2-positive, node-positive IDC (1 sentinel node).

Which treatment would you most likely recommend for this patient, in addition to endocrine therapy, if the patient's age was:

Treatment	60 years	75 years	85 years
ТСН	55%	58%	21%
AC-TH	38%	9%	1%
TC + trastuzumab	5%	18%	10%
Paclitaxel + trastuzumab	2%	9%	31%
Trastuzumab alone	0%	6%	30%
Trastuzumab + other chemotherapy	0%	0%	3%
None	0%	0%	4%

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Clinical Scenario 16: A 60-year-old woman has a HER2-positive, node-negative IDC (3 sentinel nodes) and undergoes breast-conserving therapy.

Which adjuvant systemic treatment would you most likely recommend for this patient, in addition to endocrine therapy as appropriate, given the following ER status and tumor sizes?

	ER status and tumor size			
Treatment	ER-positive		ER-negative	
	0.3-cm tumor	0.8-cm tumor	0.3-cm tumor	0.8-cm tumor
ТСН	20%	56%	27%	58%
TC + trastuzumab	7%	14%	12%	15%
Paclitaxel + trastuzumab	7%	4%	5%	3%
Trastuzumab alone	6%	7%	6%	4%
AC-TH	4%	8%	8%	15%
Other	0%	1%	1%	1%
None	56%	10%	41%	4%

Prognostic role of HER2 positivity in small, node-negative breast cancer

Group	N	Patients	Main outcome
European Institute of Technology ¹	150	pT1a-b, N0	Recurrence at 5 y ER+, HER2+: 8% ER-, HER2+: 9%
MD Anderson ²	965	pT1a-b, N0	Recurrence at 5 y HER2+: 22.9% Distant recurrence at 5 y HER2+: 13.6%
Memorial Sloan- Kettering Cancer Center ³	257	pT1a-c, N0	Distant recurrence at 3 y No adjuvant trastuzumab: 5% Adjuvant trastuzumab: 0%

¹ Curigliano G et al. *J Clin Oncol* 2009;27(34):5693-9.

² Gonzalez-Angulo AM et al. *J Clin Oncol* 2009;27(34):5700-6.

³ McArthur HL et al. Breast Cancer Symposium 2009; Abstract 228.