

THE IMPACT OF DE-ESCALATION OF ADJUVANT SYSTEMIC THERAPY ON THE OUTCOME OF WOMEN WITH EARLY ER+/HER2+ BREAST CANCER

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BACKGROUND

Adjuvant systemic therapy in women with early ER+/HER2+ breast cancer includes chemotherapy (ChT), one year of anti-HER2 therapy and at least five years of hormonal therapy (HT). Here, we explore the impact of de-escalation of adjuvant therapy on the outcome in women with early ER+/HER2+ breast cancer.

METHODS

All women with ER+ (IHC \ge 1%) and HER2+ (IHC3+ and/or FISH ratio \ge 2.0) early breast cancer who received adjuvant systemic therapy at the Institute of Oncology Ljubljana between year 2006 and 2016 were retrospectively included in this study. For various reasons ChT, anti-HER2 therapy (trastuzumab) or HT were omitted or administered for shorter duration (i.e. de-escalated) in some women. An association between de-escalated therapy and distant disease-free survival (DDFS) was analysed using a multivariate Cox proportional-hazards model (Table 1).

RESULTS

followed up to 10 years (median time 6.6 years) and death or distant recurrence occurred in 58 (19.9%) women. The estimated DDFS at 5 and 10 years was 86% and 74%, respectively. A total of 84 (28.9%), 92 (31.5%) and 45 (15.4%) women did not receive adjuvant ChT, received no or < 1yr of trastuzumab and discontinued HT prematurely. De-escalation of HT (HR 4.44; p<0.001) and trastuzumab (HR 3.42; p=0.02) had a significant detrimental effect on DDFS. In contrast, there was a non-significant effect of de-escalated ChT on DDFS (HR 1.15; p=0.78) (Table 1).

Table 1

Covariate		N	HR	95% CI	Р
Age		292	1.01	0.99-1.04	0.29
Stage	Stage I (ref.)	107			
	Stage II	118	3.65	1.64-8.12	< 0.01
	Stage III	67	10.04	4.22-23.85	< 0.001
Trastuzumab	1yr of therapy (ref.)	200			
	No or <1 yr.	92	3.42	1.26-9.27	0.02
HT	Yes (ref.)	247			
	No or discontinued	45	4.44	2.39-8.25	< 0.001
ChT	Yes (ref.)	208			
	No	84	1.15	0.44-3.01	0.78
Treatment period 2006-2010 (ref.)		133			
	2011-2016	159	0.58	0.32-1.04	0.07

CONCLUSIONS

Women with early ER+/HER2+ breast cancer should be strongly encouraged not to omit or discontinue HT and anti-HER2 therapy prematurely. De-escalation of adjuvant ChT might not be detrimental for some women with this subtype of breast cancer.

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