

TITLE PAGE

CLINICAL STUDY REPORT NO: ML28801 STUDY INFORMATION

TITLE:	A DISEASE REGISTRY STUDY TO PROSPECTIVELY OBSERVE TREATMENT PATTERNS AND OUTCOMES IN PATIENTS WITH HER2-POSITIVE UNRESECTABLE LOCALLY ADVANCED OR METASTATIC BREAST CANCER
PROTOCOL NUMBER:	ML28801
VERSION NUMBER:	1.0
STUDIED MEDICINAL PRODUCT{S}:	All medicinal products used to treat metastatic breast cancer were considered studied in this local disease registry.
COUNTRY OF STUDY POPULATION:	Greece and Cyprus
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DATE FINAL:	See electronic date stamp below

CLINICAL STUDY REPORT APPROVAL

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Protocol ML28801

3. SYNOPSIS/ABSTRACT

TITLE

A disease registry study to prospectively observe treatment patterns and outcomes in patients with HER2-positive (HER2+) unresectable locally advanced (LA) or metastatic (m) breast cancer (BC)

KEYWORDS

Effectiveness, HER2+ unresectable LA/mBC, real-world, treatment patterns

RESEARCH QUESTION AND OBJECTIVES

This study was designed to observe anticancer treatment regimens and clinical outcomes in patients with HER2+ unresectable LA/mBC.

Study objectives

- Primary objectives: treatment regimens and their sequencing; progression-free survival (PFS).
- Secondary objectives: OS; duration of response (DoR) per anticancer treatment regimen; overall response rate (ORR) per anticancer treatment regimen
(Response was evaluated by the Investigator according to site-/country-specific medical practice).
- Safety objectives: safety outcomes of treatment regimens.
- Other objectives included HER2 testing results and HER2 re-testing rates, among others (such as patient-reported quality-of-life, work productivity loss and healthcare resource utilization) which are not presented in the report synopsis due to the limited sample sizes.

STUDY DESIGN

This observational disease registry was a multicentre non-interventional study involving primary data collection. Enrolled patients were prospectively followed after study enrolment, with only one "on study" observational period; no visit frequency was imposed. Enrolled patients received treatments and clinical assessments as determined by their treating physician, according to routine clinical practice at each site. Patients were considered "on study" until death, withdrawal of consent, loss to follow-up, or end of study, whichever came first.

TARGET POPULATION

Patients, males or females, aged ≥ 18 years, with HER2+ unresectable LA/mBC, initially diagnosed ≤ 6 months prior to enrolment, and able to provide written informed consent and to comply with the study protocol.

STUDY SIZE

107 eligible patients were enrolled across 10 sites (9 in Greece and 1 in Cyprus).

STUDIED MEDICINAL PRODUCT

All medicinal products used to treat mBC were considered studied in this local disease registry.

DATA SOURCES

Data collection was carried out by means of a web-based data capture system (eCRF). Patient charts/medical records and patient-reported questionnaires (paper-and-pencil self-administered format) were used as data sources.

1L TRASTU+PERTU ± any other therapy → T-DM1 ± any other therapy		64.1% (25/39)				
PFS in the 1L setting						
		PFS		ORR	DoR	
		% censored	Median (95% CI), months	% (n _{CR/PR} /N _{with ≥1 assessment})	N ^a	Median (IQR), months
Overall		35.5	23.5 (14.3-27.5)	73.9 (68/92)	39	11.3 (4.9, 24.2)
1L treatment subgroups	TRASTU+PERTU+ChT	25.8	13.5 (8.8-22.3)	70.0 (35/50)	27	11.0 (4.9, 21.3)
	TRASTU+PERTU+ChT+HT	57.1	37.7 (27.4-N/A)	89.3 (25/28)	6	25.1 (22.8, 33.6)
	Other	35.3	27.1 (7.5-30.5)	57.1 (8/14)	6	6.9 (2.5, 20.7)
OS						
		% censored	Median (95% CI), months	3-year rate, % (95% CI)	5-year rate, % (95% CI)	
Overall		72.9	Not reached (N/A)	74.6 (64.0-82.5)	62.4 (49.4-72.9)	
Adverse events and adverse reactions						
				n _{events}	n _{pt} (%)	
At least one (N)SAE				541	81 (75.7)	
At least one SAE				37	20 (18.7)	
At least one (N)SADR				257	60 (56.1)	
At least one SADR				5	5 (4.7)	
MedDRA PT: Diarrhoea ^a				2	2 (1.9)	
MedDRA PT: Acute kidney injury ^a , Febrile neutropenia ^a , Hypersensitivity ^b				1, each	1 (0.9), each	
(N)SAEs of special interest				-	-	
(N)SADRs of specific interest^c				6	5 (4.7)	
(N)SAEs leading to anticancer treatment dose adjustment				23	12 (11.2)	
(N)SAEs leading to anticancer treatment dose interruption				17	12 (11.2)	
(N)SAEs leading to anticancer treatment discontinuation				6	6 (5.6)	
(N)SAEs that led to death				4	4 (3.7)	
Deaths during the observation period				29	29 (27.1)	

^aRelated to docetaxel. ^bRelated to paclitaxel. ^cEjection fraction decreased (related to PERTU/TRASTU in 2 patients; related to PERTU/TRASTU/docetaxel in 2 patients) and pneumonitis (related to 'other TT' in 1 patient); all events were non-serious. Abbreviations: 1L, first-line; BC, breast cancer; BMI, body mass index; ChT, chemotherapy; CI, confidence interval; CR, complete response; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; ER, estrogen receptor; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; HT, hormonal therapy; HC, immunohistochemistry; IQR, interquartile range (Q1, Q3); mBC, metastatic BC; MedDRA PT, Medical Dictionary for Regulatory Activities Preferred Term; (N)SADR, (non)serious adverse drug reaction; (N)SAE, (non)serious adverse event; ORR, overall response rate; OS, overall survival; PERTU, pertuzumab; PFS, progression-free survival; PgR, progesterone receptor; PR, partial response; SADR, serious adverse drug reaction; SAE, serious adverse event; T-DM1, ado-trastuzumab emtansine; TKI, tyrosine kinase inhibitor; TRASTU, trastuzumab; (other) TT, targeted therapy other than anti-HER2 (i.e., bevacizumab and/or denosumab).

CONCLUSIONS

The majority of HER2+ unresectable LA/mBC patients were treated with guideline-recommended therapies as 1L treatment, accompanied by a high response rate and half of patients being free of disease progression/death at 2 years after treatment initiation.