

# Phase IV multicenter study evaluating RWE and the safety of talazoparib in patients with locally advanced or metastatic negative HER2 breast cancer and a BRCA1/2 mutation (ViTAL) - Cohort 2: patients treated according to the EMA

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## **BACKGROUND**

Talazoparib (TALA) is a highly potent PARP inhibitor that has demonstrated clinical benefit in the phase III EMBRACA trial for patients with germline BRCA1 or BRCA2-mutation and a locally advanced or metastatic HER2 negative (HER2-) breast cancer (BC) (Litton JK, et al. Talazoparib in Patients with Advanced Breast Cancer and a Germline BRCA Mutation. N Engl J Med. 2018; 379:753-763).

### **OBJECTIVES**

ViTAL (EUPAS30803) is an ambispective, multi-center longitudinal, phase IV study that aims to ensure the effectiveness and safety of TALA in the real-world setting among patients with locally advanced or metastatic HER2-BC, with somatic or germline BRCA mutation (sBRCA or gBRCA).

# **METHODS**

Cohort 1

rlv Access Prograr

o September 2019.

86 patients enrolled

Cohort 2

Patients treated

according to the

European Marketinc

Approval granted

85 patients enrolled

80 patients

3 patients with no BRCA

2 patients not treated

mutation

Screen

Failure

5 patients

#### **INCLUSION CRITERIA**

### Cohort 1

- Patient has been treated or treated through the French Early Access Program
- Patient's consent before any specific procedures of the study including the assessments requested for inclusion

#### Cohort 2

- Patient for who a talazoparib treatment must be initiated or has been initiated according to the Summary Product Characteristic
- •ECOG PS = 0 to 2 Patient's consent before any specific procedures of the study including the assessments
- Patient affiliated to a French social security

requested for inclusion

**Primary endpoint:** Time to Treatment Discontinuation (TTD) for TALA defined as time between the date of first dose of TALA and the date of last dose or death.

### **Secondary endpoints:**

- Safety of talazoparib

- TTD of the subsequent treatment
- Overall survival
- Best response
- For patients with Central Nervous System (CNS) metastasis at the inclusion, the duration of CNS metastases control and the time before a local treatment of CNS metastases
- Patient satisfaction of treatment by talazoparib: the satisfaction of the patient for his treatment by talazoparib will measured at M3 and M6 only by the Cancer Therapy Satisfaction Questionnaire (CTSQ).

# The results presented in this poster concerns the cohort 2

The results for the cohort 1 presented at SABCS 2022 (P4-01-20)

# 1.BASELINE CHARACTERISTICS

From December 2019 to October 2021, 80 patients were treated in the cohort 2. The baseline characteristics in all cohort 2 and Hormone Receptor (HR) status are detailed in table 1.

Table 1	- Baseline	characteristics
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HR+* N = 52	TNBC** N = 28	Cohort 2 N = 80				
54 31 – 77	48 28 – 82	51 28 – 82				
45 (87) 6 (12) 1 (2)	23 (82) 2 (7) 3 (11)	68 (85) 8 (10) 4 (5)				
10 (21)	8 (33)	18 (25)				
31 (60)	10 (36)	41 (51)				
13 (25) 38 (73) 1 (2)	18 (64) 9 (32) 1 (4)	• •				
9 (18)	6 (21)	15 (19)				
34 (65) 37 (71) 4 (8)	19 (68) 9 (32) 5 (18)	53 (66) 46 (58) 9 (11)				
	54 31 - 77 45 (87) 6 (12) 1 (2) 10 (21) 31 (60) 13 (25) 38 (73) 1 (2) 9 (18) 34 (65) 37 (71)	N = 52       N = 28         54       48         31 - 77       28 - 82         45 (87)       23 (82)         6 (12)       2 (7)         1 (2)       3 (11)         10 (21)       8 (33)         31 (60)       10 (36)         13 (25)       18 (64)         38 (73)       9 (32)         1 (2)       1 (4)         9 (18)       6 (21)         34 (65)       19 (68)         37 (71)       9 (32)				

\* HR: Hormone receptor; \*\* TNBC: Triple Negative Breast Cancer

# 2.PRIOR THERAPIES

The prior treatments received are detailed in the Table 2.

### Table 2 - Prior therapies

	HR+ N = 52	TNBC N = 28	Cohort 2 N = 80
Prior cytotoxic regimens, n (%)	33 (64)	17 (61)	50 (63)
Prior cytotoxic regimens for mBC, n (%) Median 0 1 ≥ 2	1 19 (37) 18 (35) 15 (29)	` '	` '
Prior platinum therapy, n (%) All setting (Neo)adjuvant setting Advanced/metastatic setting	8 (15) 1 (2) 7 (14)	8 (29) 1 (4) 7 (25)	16 (20) 2 (3) 14 (18)
Prior endocrine therapy for mBC, n (%) Median 0 1 ≥ 2	1 9 (17) 22 (42) 21 (40)	0 27 (96) 0 (0) 1 (4)	• •
Received CDK4/6 inhibitor, n (%) Endocrine therapy associated to CDK4/6 inhibitor, n(%) Aromatase inhibitor Fulvestrant	33 (64) 15 (46) 19 (58)	0 (0) 0 (0) 0 (0)	33 (41) 15 (46) 19 (58)
Other or none	4 (12)	0 (0)	4 (0)

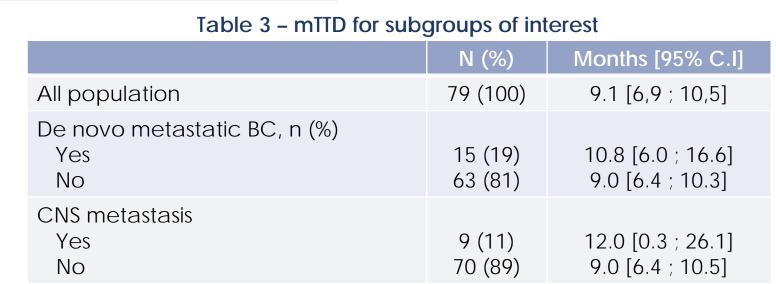
### 3. PRIMARY ENDPOINT: TTD OF TALAZOPARIB

At 10/26/2022, the median of follow-up was 12.0 months. Of 80 treated patients, 65 patients (81%) experienced permanent discontinuation of TALA due to progressive disease (89%), toxicity (6%), cancer-related death (2%), or

For TTD, the data is available for 79 patients.

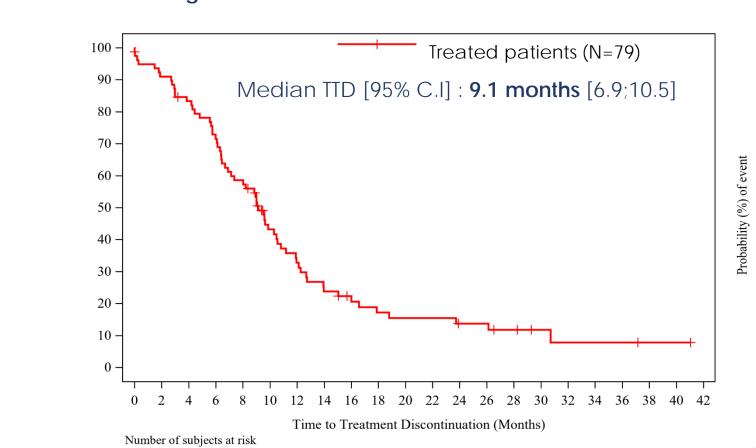
other reasons (3%).

Regarding of some interesting subgroups, the median TTD are detailed in the Table 3.



The TTD, for all population, by HR+ status, by type of BRCA, by treatment by platinum, by number of previous lines of chemotherapy are detailed in Figure 1, 2, 3, 4 and 5, respectively.

Figure 1 – TTD of TALA in cohort 2





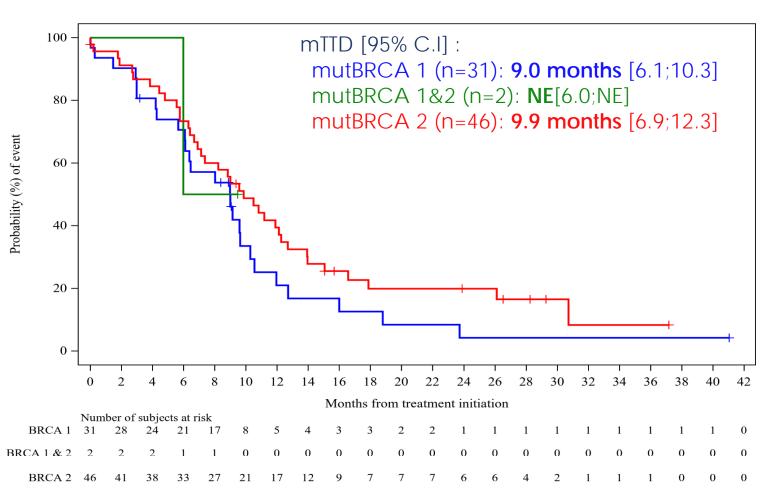


Figure 2 – TTD of TALA according to the HR status

Treated patient from Cohort 2 79 71 64 55 45 29 22 16 12 10 9 9 7 7 5 3 2 2 2 1 1 0

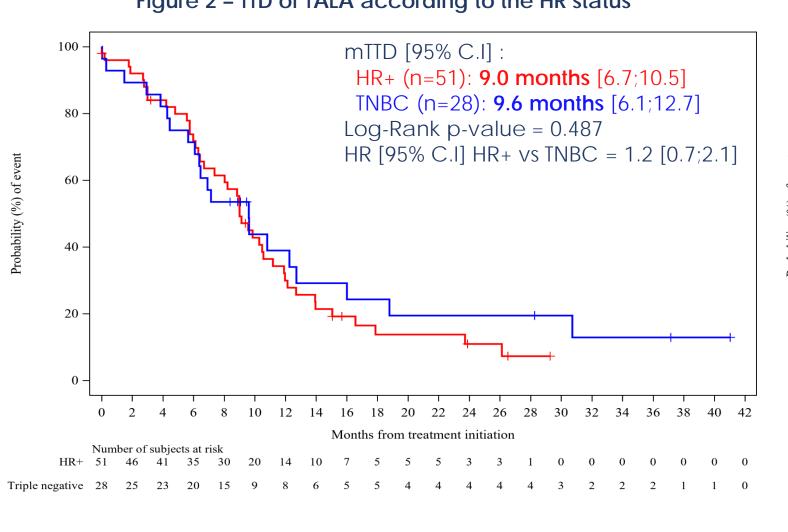
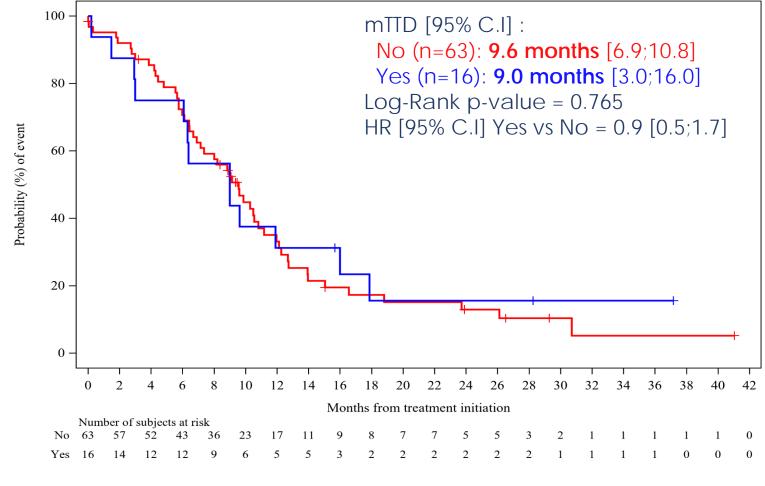
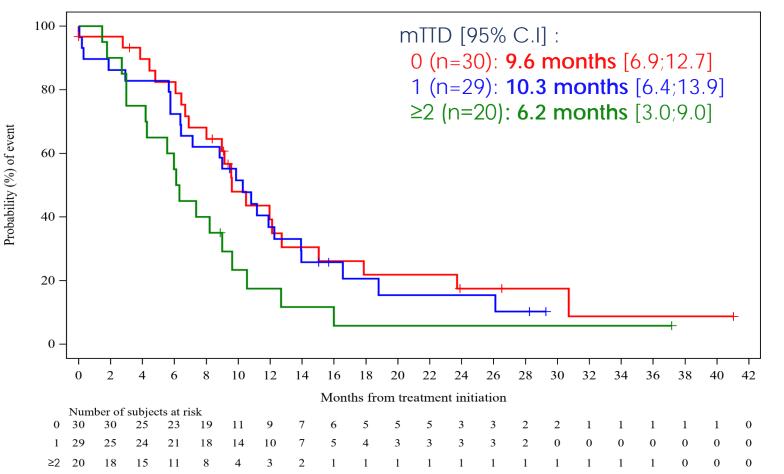


Figure 4 – TTD of TALA by treatment by platinum\*



\* As neoadjuvant/adjuvant or advanced/metastatic treatment

Figure 5 – TTD of TALA by number of previous lines of chemotherapy



# 4. SECONDARY ENDPOINTS

After discontinuation of TALA, 55 (69%) of patients received a subsequent treatment, with a TTD of 3.9 months [95% CI 2.1-4.7]. The most common subsequent treatments were non-platinum chemotherapy (67%), platinum therapy (6%) and other (27%).

The overall survival data were immature.

At least one adverse event (AEs) was recorded in 74% of patients: 41% anemia, 19% neutropenia, 15% thrombocytopenia, 25% asthenia, 19% nausea, 11% diarrhea, 10% headache and 10% fatigue.

Related serious AEs occurred in 7 (9%) patients including 3% anemia and 4% thrombocytopenia.

Dose modification, temporary interruption or permanent discontinuation due to intolerance, associated with talazoparib occurred in 26 (33%), 30 (38%) and 4 (6%) respectively.

## TAKE HOME MESSAGE

- These results are consistent with the outcomes and safety results of the cohort 1 (P4-01-20) and EMBRACA study (Litton et.al. NEJM 2018).
- As for Cohort 1
  - The earlier talazoparib is given, the better the activity of
- BRCA2 mutated patients benefit more than BRCA1 mutated
- The potential existence of long responder for TNBC patients.

# **CONCLUSION**

In order to obtain more significant results, data from cohorts 1 and 2 will be analyzed together in a future publication.

# REFERENCE

Litton JK, et al. Talazoparib in Patients with Advanced Breast Cancer and a Germline BRCA Mutation. N Engl J Med. 2018; 379:753-763.

# **ACKNOWLEDGEMENTS & CONTACT**

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