

SURVIVAL OF PATIENTS WITH ADVANCED MELANOMA ACCORDING TO FIRST LINE TREATMENT AND KEY PROGNOSTIC FACTORS: REAL-WORLD DATA FROM GEM1801 STUDY

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At 18 months

BACKGROUND

Targeted therapy (TT) and immune-checkpoint inhibitors (CPi) have improved the survival of patients with advanced melanoma. Real-world data for these treatments add value, confirming the results of clinical trials, expanding evidence in underrepresented populations and detecting new areas of research.

The GEM-1801 study is a collaboration among 37 centers affiliated to Spanish Melanoma Group (GEM) to collect prospective data in order to obtain an image of the reality of patients who debut with advanced melanoma in Spain.

OBJECTIVES

- To define the profile of patients with advanced melanoma, based on a representative sample of patients treated following the routine clinical practice in Spanish centers.
- To analyze treatment choices and their health outcomes.

METHODS

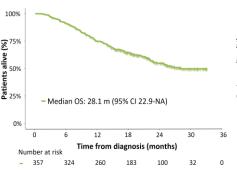
GEM1801 is a prospective observational. epidemiological and multicentric study including 400 pts with resected stage III and advanced/metastatic melanoma diagnosed since 2018 in Spain.

All pts are ≥18 years and provided written informed consent.

We report results of the advanced melanoma group (n=357). Patients were included since August 2018 to October

Age (range), years	65.2 (23.3-95.2)
Sex, n (%)	
Male	200 (56)
Female	157 (44)
ECOG performance status, n (%)	
0	190 (53.2)
1	116 (32.5)
2	40 (11.2)
3	7 (2)
UK	4 (1.1)
Type of melanoma, n (%)	
Cutaneous	239 (67)
Mucosal	21 (5.9)
Acral	20 (5.6)
Uveal	10 (2.8)
UK	67 (18.8)
BRAF mutation status, n (%)	
BRAF-wt	168 (47.1)
<i>BRAF^{V600}-</i> mut	180 (50.4)
UK	9 (2.5)
Tumor stage AJCC8th ed. at study of	entry, n (%)
III B	6 (1.7)
III C	21 (5.9)
III D	6 (1.7)
IV A	89 (24.9)
IV B	51 (14.3)
IV C	124 (34.7)
IV D	60 (16.8)
Number of affected organs, n (%)	
1	122 (34.2)
2	95 (26.6)
≥ 3	124 (34.7)
Lactate dehydrogenase level, n (%)	
Normal (≤ULN)	185 (51.8)
Elevated (>1x <2x ULN)	91 (25.5)
Elevated (>2x ULN)	26 (7.3)
UK	55 (15.4)
Previous adjuvant therapy, n (%)	
Targeted therapy	5 (1.5)
СРі	53 (14.8)
Number of treatment lines, n (%)	
1	196 (54.9)
≥ 2	138 (38.7)

(unknown); wt (wild type); mut (mutated)

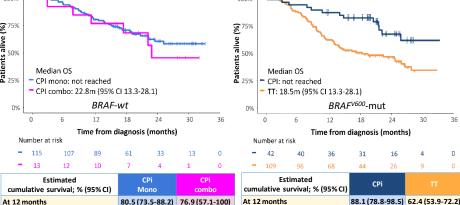


Estimated cumulative survival; % (95% CI)	All patients	
At 12 months	74.8 (70.4-79.5)	
At 18 months	64.5 (59.7-69.8)	

Figure 1. OS stage III irresecable or IV

BRAF-wt	<i>BRAF</i> ^{V600} -mut	
n = 156		
148 (94.9)	42 (24.7)	
115 (73.7)	36 (21.2)	
57 (36.5)	12 (7.1)	
58 (37.2)	24 (14.1)	
13 (8.3)	6 (3.5)	
	109 (64.1) 13 (7.6)	
0 (0)		
0 (0)	96 (56.5)	
1 (0.6)	2 (1.2)	
1 (0.6)	-	
-	2 (1.2)	
27 (17.3)	17 (10)	
27 (17.3) 20 (12.9)	17 (10) 9 (5.3)	
	n = 156 148 (94.9) 115 (73.7) 57 (36.5) 58 (37.2) 13 (8.3) 0 (0) 0 (0) 1 (0.6)	

Table 2. Treatment disposition (n=326), CT (clinical trial); UK (unknown)



At 18 months

descriptive purpose only.

more than one treatment and/or toxicity)

Figure 2. OS for BRAF-wt. The curves are for descriptive purpose only

70.8 (62.8-79.9) 68.4 (46.9-99.7)

	Factor		n (%)	12 - 18 m OS (%)	p (Cox / log-rank)	n (%)	CPi		
BRAF ^{V600} mut TT	ECOG	0-1	83 (77)	67.5 - 56.4	0.005	Any G3-4 toxicity	23 (9.3)	15 (8.7)	
		>1	25 (33)	44 - 35					
	LDH	<uln< td=""><td>50 (53)</td><td>78 – 63</td><td rowspan="2">0.024</td><td>Fever</td><td>1 (0.4)</td><td>5 (2.9)</td></uln<>	50 (53)	78 – 63	0.024	Fever	1 (0.4)	5 (2.9)	
		>ULN	45 (47)	46.7 - 39.8			. (1. 6)		
	М1	a-b	45 (41)	75.6 – 71	<0.0001	Transaminase increase	4 (1.6)	•	
		c-d	64 (59)	53.1 - 37		Hepatitis	3 (1.2)	-	
BRAF ^{V600} mut CPi	ECOG	0-1	41 (98)	90.2 - 85.2	-				
		>1	1 (2)	NA		Diarrhea	2 (0.8)	1 (0.6)	
	LDH	<uln< td=""><td>26 (72)</td><td>88.5 - 88.5</td><td rowspan="2">0.54</td><td rowspan="2">Neumonitis</td><td rowspan="2">2 (0.8)</td><td rowspan="2">1 (0.6)</td></uln<>	26 (72)	88.5 - 88.5	0.54	Neumonitis	2 (0.8)	1 (0.6)	
	LDN	>ULN	10 (28)	90 - 80					
	М1	a-b	19 (45)	84.2 - 84.2	0.42	Colitis	2 (0.8)	-	
		c-d	23 (55)	91.3 - 82.6					
BRAF-wt CPi	ECOG	0-1	113 (89)	83.9 - 74.9	0.0027	Vomiting	-	2 (1.2)	
		>1	14 (11)	46.2 - 30.8		Ocular events	_	2 (1.2)	
	LDH	<uln< td=""><td>71 (66)</td><td>89 – 82</td><td rowspan="2"><0.0001</td><td>Octular events</td><td></td><td>2 (1.2)</td></uln<>	71 (66)	89 – 82	<0.0001	Octular events		2 (1.2)	
		<u>>ULN</u>	36 (34)	61.1 - 43.3		Pancreatitis	1 (0.4)	1 (0.6)	
	М1	a-b	72 (56)	90.1 - 79.5	0.02 Rash	_			
		c-d	56 (44)	67.3 - 59		1 (0.4)	1 (0.6)		
ble 3.	3. Factors associated with survival among vs Table 4. G3-4 Toxicity profile (a patient may have								

Table 3. Factors associated with survival among vs therapies according to BRAF status

RESULTS

Patients characteristics are summarized in table 1. 22 (6,2%) patients did not received first line systemic treatment (2 were unkown). Of the 333 (93.3%) patients treated with first line treatment, 44 (13,2%) were in a clinical trial and 289 (86,8%) in daily practice setting. Table 2 summarizes these treatments for patients with known BRAF status (N=326).

With a median follow up of 18,3 months (95% CI 17.1-19.6) figure 1 reflects the overall survival of the whole cohort

For the 289 patients that received daily practice treatment, figure 2 and 3 reflect the overall survival for immunotherapy and targeted therapy according to BRAF mutation status. Table 3 analyzes the patients' characteristics that could influence survival

Finally, table 4 summarizes the toxicity profile of the different treatments that patients have receive until cutt off (November 17th 2020).

CONCLUSIONS

83.2 (72.6-95.4) 50.9 (42.3-61.3)

Figure 3. OS for BRAFV600-mut. The curves are for

- Survival of patiens with advanced melanoma in "real-world" is similar to reported in clinical trials
- For BRAF-wt the preferred choice was anti-PD-1 monotherapy, with no apparent differences in survival when compared to the combination with anti-CTLA4.
- First line TT was chosen for aprox 2/3 BRAFV600-mut cases while aprox 1/3
- The apparent descriptive difference in OS curves in patients treated with CPi vs TT in BRAFV600-mut group may be due to selection bias since patients with TT had worse baseline prognostic factors.
- Toxicity for CPi and TT has a similar profile than those described in clinical trials

were treated with CPi.