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Adjuvant treatment in stage III melanoma patients: effects on disease relapse and prognosis. A Real world studio/data.

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Background. Stage III melanoma management has changed in the last years. Lymphadenectomy (LA) is no more indicated after a positive sentinel node biopsy (SNB)^{1,2}, and adjuvant (adj) therapy with anti-PD-1 agents^{3,4} or BRAF/MEK inhibitors⁵ has become part of the standard treatment of these patients in all guidelines. However, studies on the real-world effectiveness and toxicity are scarce. In this retrospective analysis we evaluated the outcomes of the adj-treatment in the standard clinical practice.

Methods. In this retrospective study, we analyzed resected stage III melanoma patients (resected stage IV patients have been excluded), who received adj-treatment with anti-PD-1 immunotherapy (IT) or target therapy (TT). The primary endpoints were 3-years overall survival (OS), relapse-free survival (RFS) and distant metastasis-free survival (DMFS); safety evaluation is ongoing.

Results

PATIENT	SNB	SNB + LA	LA
CARACTERISTICS	(n=96)	(n=54)	(n=20)
Age, years	54 (46-66)	51 (43-64)	53 (48-61)
Males	58 (60.4 %)	30 (55.6%)	15 (75.0 %)
Mutation			
BRAF-mutated	69 (73.4 %)	37 (68.5 %)	14 (70.0 %)
NRAS-mutated	1 (1.1%)	2 (3.7 %)	0 (0.0 %)
BRAF-Wild-type	24 (25.5 %)	15 (27.8 %)	6 (30.0 %)
Stage			
IIIA	32 (33.3 %)	12 (22.2 %)	0 (0.0 %)
IIIB	19 (19.8 %)	10 (18.5 %)	3 (15.0 %)
IIIC	43 (44.8 %)	31 (57.4 %)	15 (75.0 %)
IIID	2 (2.1 %)	1 (1.9 %)	2 (10.0 %)
PS ECOG			
0	92 (95.8 %)	52 (96.3 %)	18 (90.0 %)
1	2 (2.1 %)	2 (3.7 %)	2 (10.0 %)
2	2 (2.1 %)	0 (0.0 %)	0 (0.0 %)
Adjuvant therapy			
Anti-PD1 (IT)	34 (35.4 %)	31 (57.4 %)	8 (40.0 %)
Anti-BRAF/MEK (TT)	62 (64.6 %)	23 (42.6 %)	12 (60.0 %)

1. Patient characteristics of the population under study

LA does not improve the prognosis of patients with loco-regional positive lymph-nodes, treated with adjuvant therapy: at a median follow-up of 3 years there was no statistically significant difference between patients who did not undergo LA and those who underwent LA after SNB in term of OS (89% vs 83%, p=0.60), RFS (57% vs 54%, p=0.40) and DMFS (82% vs 86%, p=0.20).



Figure 1. Overall survival (A), relapse-free survival (B) and metastasis-free survival (C): comparison between who did not undergo LA after positive SNB and patients who underwent LA after positive SNB.

All 170 patients received adj-treatment: IT (73 pts) or TT (97 pts).



While the difference between the use of IT vs TT was not statistically significant in subjects who did not undergo LA after SNB term of OS (83% vs 92%, p=0.60), RFS (45% vs 68%, p=0.40) and DMFS (83% vs 80%, p=0.60), in the group that underwent LA (n=74), TT showed a 3y-OS of 77% vs 93% of IT (p=0.03); at variance, no statistically significant association was documented for RFS (45% vs 67%, p=0.09) and DMFS (77% vs 86%, p=0.07).

Figure 2. Overall survival (A), disease-free survival (B) and metastasis-free survival (C) in patients who unde comparison between those who received IT and those who received TT.

An exploratory analysis of IT vs TT outcomes, according to AJCC 8th ed. stage subgroups, highlighted 3y-RFS of 48% vs 85% (p=0.01) in stage IIIA and 55% vs 76% (p=0.10) in stage IIIB while it was 51% vs 43% (p=0.90) in stage IIIC.



Conclusions. We confirmed that **LA does not improve the prognosis of stage III patients treated with adjuvant therapy**. Our preliminary data support that **TT effectiveness in no lower than IT** in this setting, above all in early stages where the costeffectiveness, also due to long-term toxicities, should be carefully taken into account. However, a larger sample size and a longer follow-up are needed. Safety evaluation and discontinuation rate are under evaluation.

References: 1. Leiter et al. (2016) The Lancet. Oncology, 17(6), 757–767. 2. Faries et al. (2017) The New England journal of medicine, 376(23), 2211–2222. 3. Eggermont et al. (2018) The New England journal of medicine, 377(19), 182–1835. 5. Long et al. (2017) The New England journal of medicine, 377(19), 182–1835. 5. Long et al. (2017) The New England journal of medicine, 377(19), 182–1823.