

DOES EXPOSURE TO ANTIBIOTICS PRIOR TO TREATMENT WITH IMMUNE CHECKPOINT INHIBITORS AFFECT THEIR EFFECTIVENESS?



5PSQ-093

L01- ANTINEOPLASTIC AGENTS

BACKGROUND AND IMPORTANCE

- ✓ Taking antibiotics weeks before immunotherapy → Alters the fut microbiota.
- ↓ Effectiveness of immunotherapy in cancer patients.



AIM AND OBJECTIVES

- ✓ To evaluate the influence of the use of antibiotic therapy on the efectiveness of immunotherapy treatment in cancer patients

METHODS

- ✓ Observational retrospective study
- ✓ Patients who treated with immunotherapy in renal cell, nom-small cell lung and head and neck cancer. (January 2018 → August 2023)
- ✓ Time of follow up: 2 months prior to the start of immunotherapy → discontinuation (or last medical clinic analysis until August 2023)
- ✓ Epidemiological, clinical variables.
- ✓ Comparing the mPFS vs mOS patients who receveived antibiotic therapy before to start of immunotherapy and those who did not receive antibiotic.

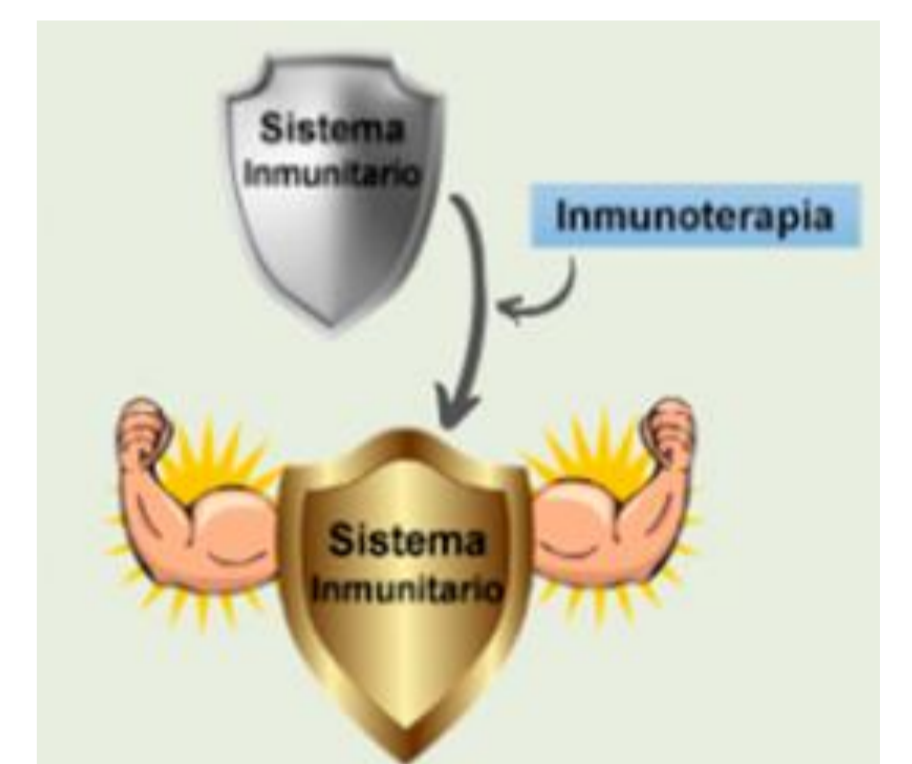


RESULTS

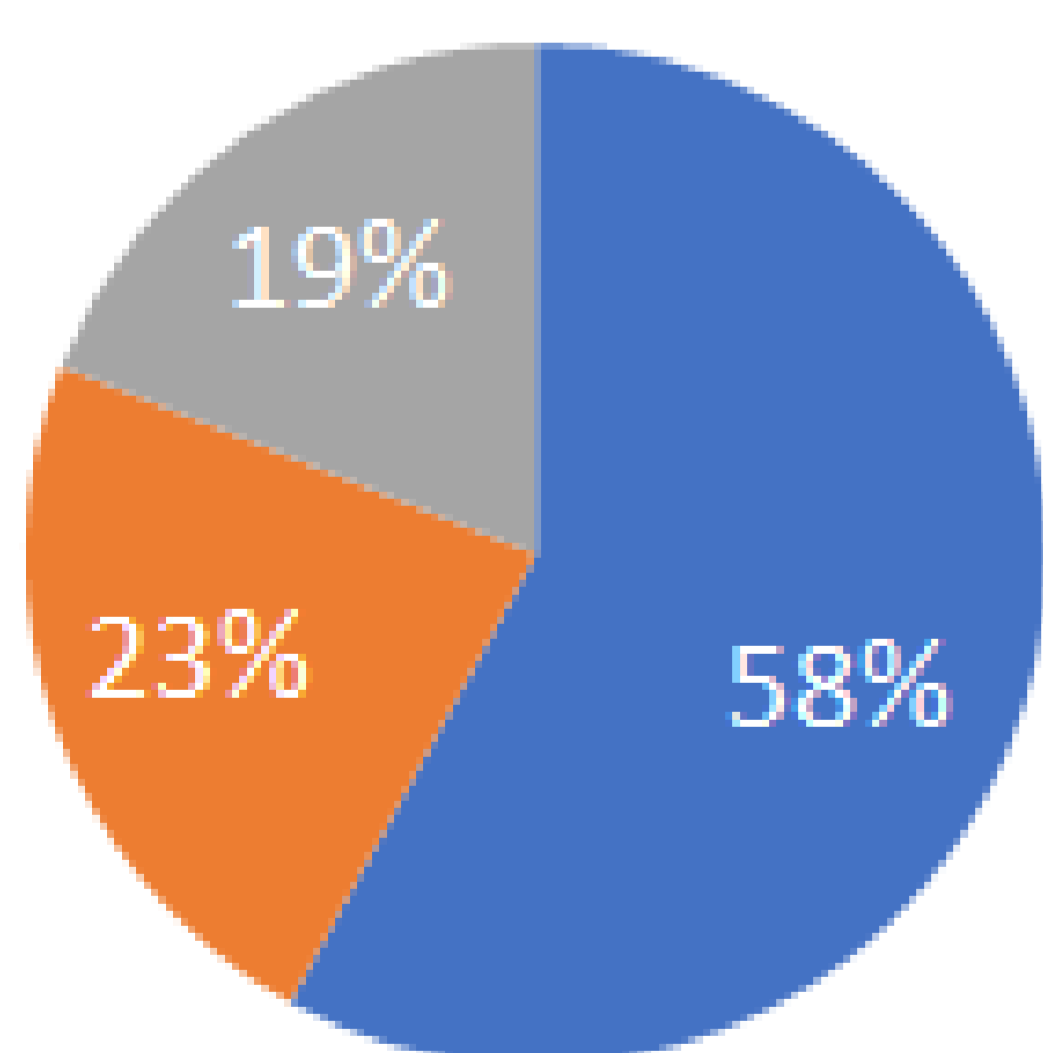
- ✓ 138 patients
- ✓ 71,0% men
- ✓ 67± 8,3 years



- **42% received antibiotherapy before immunotherapy**



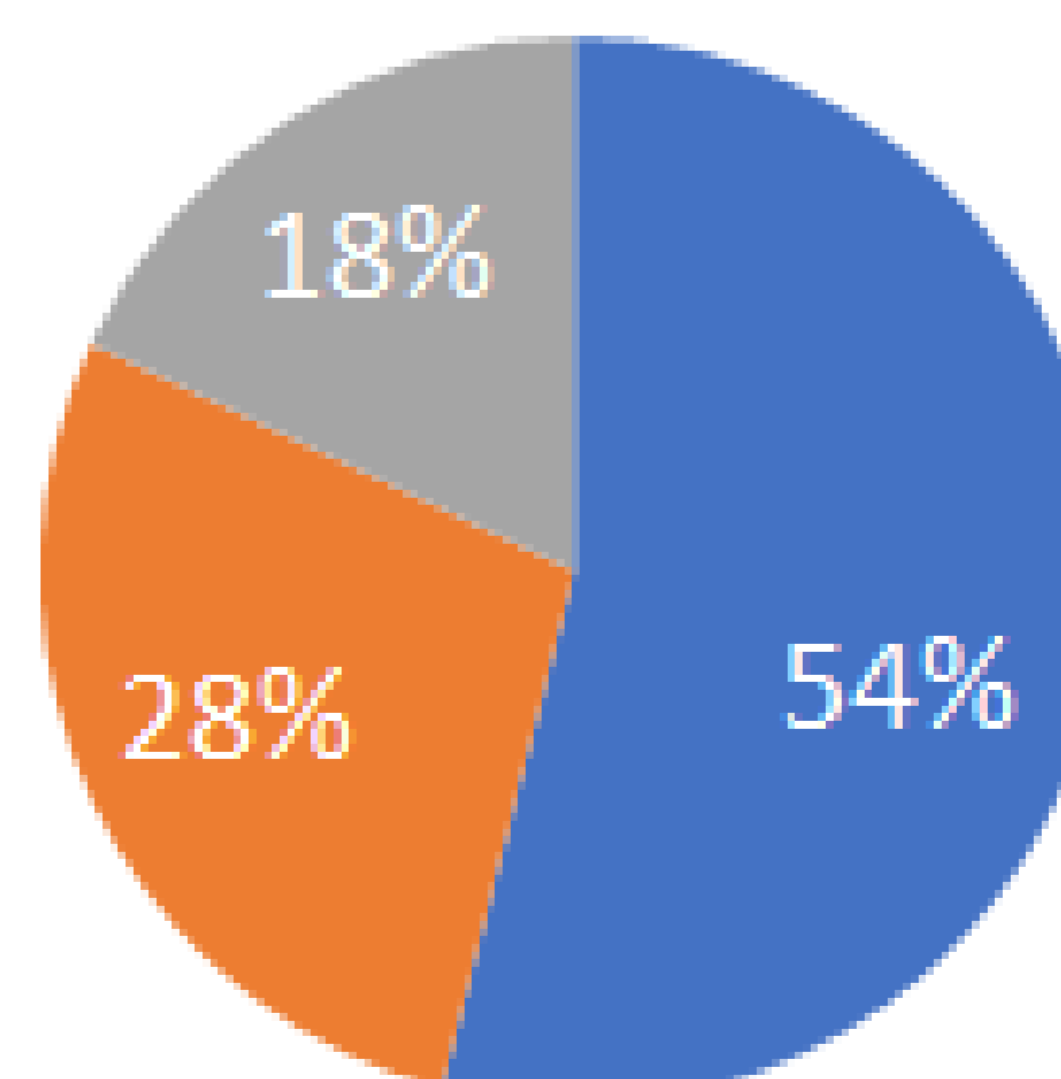
Group who received antibiotherapy before immunotherapy



- ✓ 56,8 % men.
- ✓ Previous lines: 2 (median).
- ✓ mPFS: 5,1 months.
- ✓ mOS: 16,4 months.

■ PEMBOLIZUMAB ■ ATEZOLIZUMAB ■ NIVOLUMAB

Antibiotic-native group



- ✓ 81 % men.
- ✓ Previous lines: 2 (median).
- ✓ mPFS: 5,6 months.
- ✓ mOS: 117,8 months.

CONCLUSION

Despite limitation in sample size → antibiotic therapy two months prior before to start of immunotherapy does not make a difference to the effectiveness.