



ABSTRACT **NUMBER: 5PSQ-165**

INCIDENCE AND MANAGEMENT OF ETOPOSIDE HYPERSENSITIVITY IN PAEDIATRIC PATIENTS

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Background and importance

There is conflicting data in the literature regarding incidence of etoposide hypersensitivity reactions in adults and children ranging from 2% to 51%.

Aim and objectives

- To assess etoposide hypersensitivity incidence
- To evaluate potential risk factors for ${ \bullet }$ hypersensitivity in paediatric patients

Material and methods

- **Design:** Retrospective observational study
- Study period: June 2013- September 2020.
- Population: paediatric patients treated with etoposide
- Variables: demographics, diagnosis, dose, infusion rate, infusion concentration, symptoms of hypersensitivity, CTCAE grade of hypersensitivity reaction and management of hypersensitivity reaction.

Results

- Patients included: 213
- Median age: 6.75 (0.16-17) years Male: 58.68%





- Hypersensitivity reactions: 23 (10.8%) patients
- **CTCAE grade I:** 3 patients
- **CTCAE grade II:** 20 patients
- **Range doses:** 200-100 mg/m2; 2.5-6 mg/kg.
- Median infusion rate: 55 (2-200) mg/h.
- Median concentration: 0.3 (0.2-0.5) mg/ml.
- All hypersensitivity reactions were successfully managed with medication (corticoids and antihistaminic).
- Subsequent doses were administered with **premedication** and reduction of the infusion rate.

Conclusion and relevance

- Incidence of hypersensitivity reaction was moderate, all hypersensitivity reaction were mild being resolved by standard treatment.
- We were unable to stablish the variables collected as risk factors for hypersensitivity reactions. Other \bullet studies have observed a relationship between the rate of infusion and the concentration of etoposide.



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