



TOLERANCE PROFILE OF PLATINUM SALTS IN ANTICANCER CHEMOTHERAPY: A PROSPECTIVE STUDY

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Introduction

Cisplatin, Carboplatin and Oxaliplatin are three major platinum salts used for intravenous chemotherapy. They are the basis of many chemotherapy protocols for different cancers, and their mechanism of action is the formation of bridges between DNA chains. However, their effecacys is accompanied by different toxicities.

Purpose: The aim of our study is to identify adverse drug reactions of platimum salts.

Patients and methods

•Type: prospective descriptive study
•Place: National Institute of Oncology Rabat
•Duration: March 2014 and September 2015 (18 months)
•Collection method: Notification form for adverse drug reactions.
•Statistical Analysis: Descriptive Analysis with SPSS 13.0 Software quantitative variables: average. qualitative variables: percentage.

Results

Sociodemographic data

Nombre of patient	Average age	Sex ratio
70	52	0.41

Table 1 : ISociodemographic data of patients

Cancer localization





Figure 1: Different localization cancer

Distribution of platinum salts



oxaliplatine

carboplatine

cisplatine

Figure 2: distribution of platinum salts

Toxicities related to platinum salts



alopecia	browning of skin	
skin rash	fragility of the nails	constipation
mucositis	swarming of extremities	nausea / voi
Erythema		
<u>Figure 6</u>	: Distribution of different	Figu

<u>mucocutaneous toxicities</u>

constipationabdominal paindiarrheanausea / vomitingthrust of hemorrhoids

Figure 5: Distribution of different <u>digestive toxicities</u>

Toxicity	Adverse Drug Effect	Platinum salt	Effectif	Frensh method	
				Intrinsic Score	Extrinsic Score
Mucocutaneous toxicity	Urticaria / erythema	Oxaliplatin	1	12	B4
		Cisplatin	1	l1	B2
		Carboplatin	3	12	B4
			2	12	B1
	Pruritus	Carboplatin	1	12	B4
	Mucositis	Carboplatin	1	12	B4
		Oxaliplatin	1	12	B4
		Cisplatin	1	12	B4
	Coloring / fragility of the nails	Oxaliplatin	1	12	B1
	Alopecia	Carboplatin	2	12	B4
		Cisplatin	3	12	B4
	Browning of skin	Oxaliplatin	1	16	B3
	Paresthesia / swarming of	Oxaliplatin	1	12	B4
(extremities		1	13	B3
		Carboplatin	3	12	B4
	Nausea and vomiting	Carboplatin	3	12	B4
Digestive toxicity		Cisplatin	4	12	B4
			1	16	B4
		Oxaliplatine	1	12	B4
Ototoxicity	Tinnitus	Oxaliplatin	1	12	B1
		Cisplatin	3	12	B4
			1	13	B4
		Carboplatin	1	12	b3
Hematologic toxicity	Anemia	Oxaliplatin	1	I3	B4
		Cisplatin	2	I3	B4
		Carboplatin	1	I3	B4
	Neutropenia	Cisplatin	1	I3	B4
Gynecological toxicity		Carboplatin	1	12	B2
	Amenorrhea	Cisplatin	2	12	B2
			1	l1	B1
	vaginitis	Cisplatin	1	12	B1

Table 2: imputability study of important side effects.

Conclusion

The imputability study shows that the majority of adverse effects are described in the literature.

For better management of patients treated with platinum salts, it is essential to evaluate their clinical status and tolerance profile for each treatment to avoid the complications that may occur.

Références

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