

DOSE REDUCTION, RELATIVE DOSE INTENSITY AND TREATMENT TOXICITY IN CERVICAL CANCER PATIENTS UNDER CISPLATIN AND RADIOTHERAPY TREATMENT

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INTRODUCTION

- *Studies show that obese patients tend to be submitted to empiric chemotherapy dose reduction, aiming to attenuate adverse effects of the treatment.
- Findings suggest that this practice is possibly related to worse clinical outcomes and there is no evidence of severe toxicity with full dose administration in this population.

OBJECTIVES

To describe the relationship between body mass index (BMI) with capping dose, relative dose intensity (RDI) and treatment toxicity in cervical cancer patients.

METHODS

- ◆ Cervical cancer patient, >18 years, admitted at Cancer Hospital II (INCA) between 2018 and 2019, without previous treatment, with proposal of cisplatin+radiotherapy.
- Chemotherapy toxicity: symptoms ≥ grade 3 (CTAE v4.0).
- Severe toxicity: any adverse event resulting in interruption, delay or dose reduction (>15%).
- Capped dose: institutional protocol (70mg/week)
- **RDI:** (delivered dose/treatment duration) ÷ (prescribed dose/planned treatment duration).

RESULTS

N=183	47 Years (± 12,6y)	89.6% Adults
87.4% Squamos cell carcinoma	43.7% Stage II	33.9% Preobese 27.9% Obese
42.6% Capped dose	59% Toxicity > 3	24.6% Severe toxicity

Over 90% of the obese patients had capped dose.

Table 1. Association between toxicity, BMI and capped dose.						
Toxicity ≥3	BMI	Capped dose		p-valor		
		Yes N (%)	No N (%)			
YES	Underweight	0 (0)	9 (100)			
	Normal weight	2 (5.7)	33 (94.3)	p=0.000		
	Preobese	16 (44.4)	20 (55.6)			
	Obese	25 (89.3)	3 (10.7)			
NO	Underweight	0 (0)	2 (100)			
	Normal weight	3 (12.5)	21 (87.5)	p=0.000		
	Preobese	11 (42.3)	15 (57.7)			
	Obese	21 (91.3)	2 (8.7)			

Table 2. Association between BMI and RDI.

BMI	RDI		p-valor	
	<85% N (%)	>85% N (%)		
Underweight	0 (0)	11 (6)	0.000	
Normal weight	0 (0)	59 (32.2)	p=0.000	
Preobese	0 (0)	62 (33.9)		
Obese	11 (6)	40 (2.9)		

CONCLUSION

- *A high prevalence of excess weight was identified.
- The toxicity were similar between BMI ranges, regardless the capped dose.
- ◆It is suggested further studies evaluating the evidence of empiric dose reduction in these patients aiming to avoid treatment toxicity.
- The impact of capped dose on cervical cancer prognosis should be investigated in the future.

Projeto Gráfico: Área de Edição e Produção de Materiais Técnico-Científicos / INCA

MINISTÉRIO DA





