

## Evaluating the Adequacy of the Prophylactic Usage of Antimicrobial Drugs in Surgical Patients

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### INTRODUCTION-AIM

We analyze prospectively the prophylactic usage of the antimicrobial drugs in surgical patients whose operations are classified as clean (hernia repair, thyroidectomy, modified radical mastectomy) (2-4).

### METHODS

The study included 134 patients. A specific protocol was fulfilled by the surgeon who made the study. A number of parameters were included: medical history, physical examination, preoperative work-up, postoperative care and medications out of hospital, preoperatively, intraoperatively and postoperatively.

### RESULTS

From the total of 134 clean surgical operations, 6 hernia repairs were performed (reducible and not incarcerated hernias), 26 total thyroidectomies and 12 modified radical mastectomies (breast cancer).

### CONCLUSIONS

The prophylactic usage of the antimicrobial drugs was done in the open hernia group in 5%, according to the International Guidelines (1 dose of a broad spectrum antibiotic should be given intravenously immediately before skin incision and sometimes 1 more dose during the first 4 hours) and in the laparoscopic group in 100% (1,2). The whole procedure was done in the thyroidectomy group in 31% and in the mastectomy group in 0%. So the final conclusion is that the prophylactic usage of antimicrobial drugs in clean surgical operations does not follow the

International Guidelines and it depends upon the medical knowledge and background of the surgeon (3-6).

Operation	n	Treatment
90 open	20	Cefamandole 1g 1X3 for 3 days
	20	Cefamandole 1g 1X3
	20	Ceforanide 2g 1X2 for 3 days
	18	Pirerecillin 2g 1X2 for 3 days
	12	Ceforanide 2g 1X2
6 laparoscopic	4	Cefamandole 1g 1X1 (1 dose before surgery)
	2	Ceforanide 2g 1X1
		Ceforanide 2g 1X1 (1 dose before surgery)

Operation	n	Treatment
26 total thyroidectomies	8	Cefamandole 1g 1X2 (1 dose before and 1 after surgery)
	10	Piperacillin 2g 1X2 for 4 days
	2	Ceforanide 1g 1X2 for 4 days
	6	Cefamandole 1g 1X3 for 4 days

Operation	n	Treatment
12 mastectomies	9	Cefamandole 1g 1X3 for 7 days
	1	Ceforanide 2g 1X2 for 6 days
	2	Piperacillin 2g 1X2 for 6 days

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