

ANALYSIS OF OFF-LABEL USE IN ONCOLOGY

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4CPS-102

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ATC: L01

Objetive

Assess the risk and outcome of chemo-therapies on off-label practices in the pharmacy department of a tertiary hospital.

Results

A total of 6 types off-label drugs were requested and administered to 39 patients for 8 different diseases.

All patients with fotemustine/bevacizumab progressed on treatment.

Complete response in 9 hematologic patients (23%).

Treatment related ADRs of any grade were reported in 15(38.5%) patients

•The most common was thrombocytopenia (18%) with fotemustine.

• Discontinuations due to ADRs: bendamustine, doxorubicin liposomal, and fotemustine (1 patient each).

Material and Methods

This study included all patients treated between March 2015 March 2017 with off-label chemotherapeutic an agent prescription. Data were collected from: •clinical history of the patients pharmacy programs (athos prisma[®]) Variables analyzed: demographic (age, sex) •treatment related drug involved off-label indication stage disease

- number of previous treatment lines
- •treatment duration
- adverse drug reactions (ADRs)

	OFF-LABEL INDICATION	N.º PATIENTS	STAGE DISEASE	NUMBER OF PREVIOUS TREATMENT LINES	MEDIAN TREATMENT DURATION (CYCLES)
BENDAMUSTINE	NON-HODGKIN'S LYMPHOMAS (NHL) WITHOUT PREVIOUS RITUXIMAB	4	II	0	5
LENALIDOMIDE	DIFFUSE LARGE B-CELL NON-HODGKIN LYMPHOMA	2	IV	3	4
DOXORUBICIN LIPOSOMAL	NHL	5	ш	0: 3 PATIENTS 1: 1 PATIENT >3: 1 PATIENT	6
MERCAPTOPURINE	HISTIOCYTOSIS X	1	Ш	1	12
FOTEMUSTINE	GLIOBLASTOMA	15	IV	2	5
	OLIGODENDROGLIOMA	1	111	3	8
	ASTROCYTOMA	1	IV	2	1
BEVAZICUMAB	GLIOBLASTOMA	6	IV	2	3
	OLIGODENDROGLIOMA	1	IV	1	3
	ASTROCYTOMA	2	111	1	3
	EPENDYMOMA	1	IV	2	5

Conclusions

In our assessment, off-label therapies not have been effective in most of patients (77%), but safe. Evaluation of the cost of off-label therapies, in terms of medication risk and effects on the cost of healthcare, will be essential to its widespread clinical utility.

Off-label use may also become the only treatment option, especially in the case of rare tumors.