## PHARMACOLOGICAL INTERACTIONS REGISTERED WITH THE USE OF NEW DIRECT ACTING ANTIVIRAL AGENTS FOR TREATMENT OF HEPATITIS C VIRUS.

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The direct-acting antiviral agents (DAA) may present a high percentage of pharmacological interactions and may compromise the effectiveness and safety of these treatments.

**PURPOSE:** To describe the pharmacological interactions registered between home treatment and DAA for treatment of hepatitis C virus. To analyse the therapeutic groups involved and to assess the acceptance of pharmaceutical recommendations.

## **MATERIAL AND METHODS:**

➤A descriptive study was conducted since January to September 2015. Patients treated with DAA and active home treatments were included.

>Demographic data, pharmacological interactions and the acceptance of the pharmaceutical recommendations were collected.

➤The interactions were consulted in European Public Assessment Report (EPAR), hep-druginteractions and micromedex®.

>The pharmaceutical recommendations were classified:

"A":These drugs should not be coadministered.

"B":Potential interaction: may require close monitoring, alteration of drug dosage or timing of administration.

"C": No clinically significant interaction expected.

## **RESULTS:**

A total of 143 patients were included (98 men), and 359 pharmacological interactions were consulted. Most were no clinically significant interaction "C" 238 (66.3%), but 90(25%) were "B":potential interaction and 31(8.7%) were "A": interaction where it was recommended not to coadminister.

The pharmaceutical recommendations, therapeutic groups involved and DAA are shown in the table:

Recommendations A: 31(8.7%)	
Therapeutic groups	DAA
Antirretroviral:27/31	Sofosbubir/Simeprevir:4
	Sofosbubir/Daclatasvir:23
Proton pump	Sofosbubir/Simeprevir:2
inhibitors: <b>2/31</b>	
Opioids: <b>1/31</b>	OBV/PTV/r + Dasabuvir: <b>1</b>
Endothelin receptor	Sofosbubir/Simeprevir:1
antagonist: <b>1/31</b>	

\*OBV/PTV/r: Ombitasvir/Paritaprevir/ritonavir.

Recommendations B: 90 (25%)	
Antirretroviral:8/90	Sofosbubir/Simeprevir:3
	Sofosbubir/Daclatasvir:5
Benzodiazepines: 13/90	Sofosbubir/Simeprevir:9
	OBV/PTV/r + Dasabuvir: <b>4</b>
Beta-blockers: 10/90	Sofosbubir/Simeprevir:6
	Sofosbubir/Daclatasvir:1
	OBV/PTV/r + Dasabuvir: <b>3</b>
Calcium antagonists: 9/90	Sofosbubir/Simeprevir:6
	Sofosbubir/Daclatasvir:1
	OBV/PTV/r + Dasabuvir: <b>2</b>
Renin-angiotensin system	Sofosbubir/Simeprevir:2
inhibitors: <b>8/90</b>	OBV/PTV/r + Dasabuvir: <b>6</b>
Statins and Fibrates:8/90	Sofosbubir/Simeprevir:8
Sulphonylurea:5/90	Sofosbubir/Simeprevir:4
	OBV/PTV/r + Dasabuvir: <b>1</b>
Proton pump inhibitors: <b>2/90</b>	OBV/PTV/r + Dasabuvir: <b>1</b>
	Sofosbuvir/Ledipasvir:1
Other: Corticoids, Antiplatelet, Neuroleptic, Endothelin	
receptor antagonists, antiepileptic, antiarrhythmics, SSRI, 5	
alpha-reductase inhibitor, Prokinetics, bisphosphonates	
27/121	

## CONCLUSIONS:

➤The DAA reported high percentage of pharmacological interactions, but most did not need pharmaceutical recommendations. The majority of them were "B", only a small percentage were "A". The recommendation given were accepted and implemented.

>The antiretroviral treatments present the most possibility interactions, was still necessary a comprehensive individual treatments review.

