DRUG INTERACTION IN BREAST CANCER TRIPLE NEGATIVE THERAPY: DOCETAXEL AND FLUVOXAMINE. A CASE REPORT.

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Background and importance

To alert clinicians to the potential problems of combining docetaxel (and taxanes in general) with fluvoxamine.

Aim and objectives

To report a live-conditioning interaction between docetaxel and fluvoxamine in a breast cancer patient.

Materials and Methods

60-year-old woman(60kg,164cm).

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Triple negative breast ductal carcinoma(T1N0M0)

NEOADYUVANT CHEMOTHERAPY

- Epirubicin 95mg/m2+ Ciclophosphamide 600mg/m2/ biweekly x 4cycles.
- Carboplatin AUC5 + **Docetaxel** 75mg/m2 + pegfilgrastrim 6mg x4 cycles.

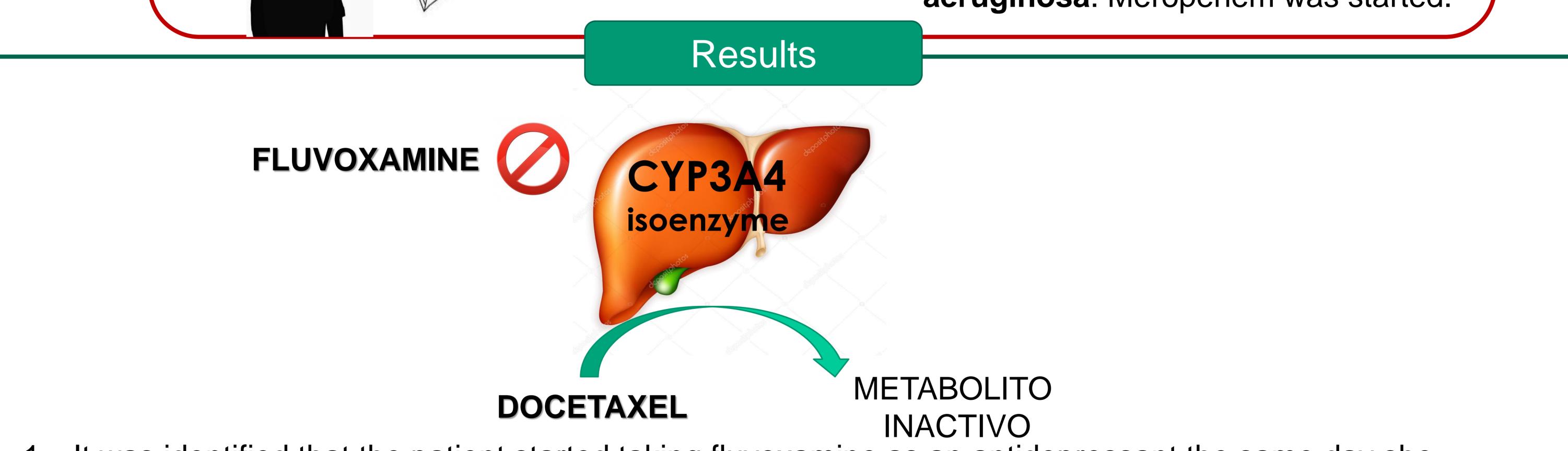
(FOLLOWED BY SURGICAL INTERVENTION).



Co- Medication: NONE, except fluvoxamine.

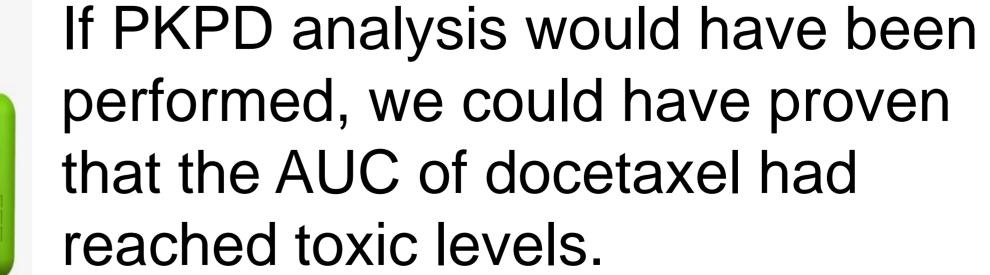
EMERGENCY ROOM:

Recurring syncopal episode and neutropenia. It was admitted with septic shock. Blood cultures: **Pseudomonas** aeruginosa. Meropenem was started.



- 1. It was identified that the patient started taking fluvoxamine as an antidepressant the same day she started the first cycle of Docetaxel-Carboplatin.
- 2. The interaction between docetaxel and fluvoxamine was assimilated, and fluvoxamine was discontinued and exchanged to mirtazapine,





Conclusions and relevance

It is mandatory to avoid utilizing SSRI that metabolizezd through CYP3A4 such as fluvoxamine, fluoxetine, paroxetine, sertraline, venlafaxine in the setting of docetaxel. •Therefore, it would be best to recommend SSRIs such as mirtazapine, citalopram and escitalopram.