

DRUG INTERACTION BETWEEN LINEZOLID AND SEROTONERGIC AGONISTS: THE SEROTONIN SYNDROME APPEARANCE

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BACKGROUND

Linezolid appears to work as a monoamine oxidase inhibitor (MAOI) which could developed into interactions with other drugs ending in the Serotonin Syndrome (SS).

OBJECTIVE

To detect linezolid interactions with serotonin modulators (X risk according to the Lexi Comp® classification)

METHODS

An observational retrospective study was made during two months:.

- Checking all the treatments of the patients with linezolid
- Looking for interactions
- Searching for Serotonin Syndrome's symptoms

RESULTS

ASSOCIATED SEROTONIN AGONISTS	PATIENTS
CLOMIPRAMINE	2
ESCITALOPRAM	1
CITALOPRAM	1
TRAZODONE	7(3 WITH SYMPTOMS)
VENLAFAXINE	2
MIRTAZAPINE	4
ARIPIRAZOLE	4(1 WITH SYMPTOMS)
TRAMADOL	3

90 patients in treatment with linezolid (63.3% men, 36.3% ,women from 15 to 89 years). 18.8% received associated treatment with serotonin agonists. 4,4% were diagnosed during the combined treatment, with confusional states, agitation and high cardiac frequency. None of the symptoms were referred as a iatrogenic cause.

CONCLUSIONS

- Although the interaction was detected leading to symptoms related to SS, neither of them were reflected like that in the clinical history.
- Pharmacist's checking is completely necessary with the purpose of inform about the interaction, moreover keeping in mind that some patients will continue the treatment with oral linezolid at home.