

Cases of drug reaction with eosinophilia and systemic symptom syndrome due to antiinflammatory drugs

M. BENABBES¹, M. ALAMI CHENTOUFI¹, A. TEBAA², I. TALIBI², R. SOULAYMANI²

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1-Faculty of Medicine and pharmacy- Mohammed V University, Laboratory of Analytical Chemistry, Rabat, Morocco.

2-National Center of Pharmacovigilance, Rabat, Morocco

Objective

Drug reaction with eosinophilia and systemic symptoms (DRESS) is a rare but severe adverse drug reaction characterized by fever, cutaneous eruption, and involvement of one or more internal organs, usually appears 2 to 8 weeks after the start of the suspected drug. DRESS is still inconsistent due to its variable clinical manifestations and inconsistent level of eosinophil, thus making the diagnosis challenging and an effective

approach for objective causality assessment is necessary to make consistent and accurate identification of this adverse drug reaction (ADRs). The objectives of this study is to evaluate the incidence and the clinical characteristics of DRESS syndrome associated with anti-inflammatory drugs and the causality assessment for estimating the strength of relationship between drug(s) exposure and occurrence of adverse reaction.

Study design

 ✓ The database 'Vigibase' of the national pharmacovigilance center (NPC) of Morocco was used from January 2008 to January 2016, using Vigiflow Software.

✓ The WHO causality assessment method was sused as a tool for clinical assessment of ADRs (Table 1).

✓ Search criteria was: Dress- anti-inflammatory drug-Morocco.



Results

-Of the 72 reports of Dress syndrome recorded in Vigibase during 8 years, we reviewed 16

(22.2%) reports coded DRESS associated with anti-inflammatory drugs. The outcome was

serious in 14 (51,85%) cases.

Demographic characteristics:

- \checkmark Sex ration: 1,03;
- ✓ Median age: 27 [19-60].

Clinical characteristics:

Fever	100 %
Skin rash	100%
Eosinophilia	82%
Lymphadenopathy	22%
Cheilitis	12,5%
Altered state of consciousness	12,5%
Median days from onset of	
symptom	18 days
Hospitalization	1000% of nation



	 Information on drug withdrawal may be lacking or unclear 	
Unlikely	 Event or laboratory test abnormality, with a time to drug intake that makes a relationship improbable (but not impossible) Disease or other drugs provide plausible explanations 	
Conditional/ Unclassified	 Event or laboratory test abnormality More data for proper assessment needed, or Additional data under examination 	
Unassessable/ Unclassifiable	 Report suggesting an adverse reaction Cannot be judged because information is insufficient or contradictory Data cannot be supplemented or verified 	

Discussion and Conclusion

 ✓ Dress syndrome is a ADRs that causes morbidity and can be lifethreatening.

✓ In this retrospective study, Prednisolone was the main agent causing DRESS syndrome in Morocco.

Πυσμπαπλατισπ

100% of patients

The most common causative agents were **prednisolone** (31.2%), **Ibuprofen** (12.5%), **Ibuprofen** (12.5%) and **Ketoprofen** (12,5%).

Causality assessment :

Score	Pourcentage %
Possible	57.7
Probable	42.1

✓ The altered state of consciousness and cheilitis were associated with Indometacin.

- \checkmark All patients recovered after corrective treatment.
- ✓ However, a consensus on criteria is essential to facilitate diagnosis.

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