

– by the cutaneous adverse drug reaction working group of the French Society of dermatology (FISARD)

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ISCAR 2015

ISCAR Vancouver 201

NO CONFLICT OF INTEREST

NO OFF-LABEL USE OF MEDICAL DEVICES, PRODUCTS OR PHARMACEUTICALS

ld congress of Dermatology – 9th International Congress on Cutaneous Adverse Drug reactions ISCAR 20

Network for severe cutaneous adverse drug reactions with the French Refer Center (H. Mondor, Créteil, created in 2004 by Pr JC Roujeau) Lille Région Nord FSARD Rouen Nancy ated to the French Society of Dermatology Région Est **Région Ouest** Centre de Référence Brest nt : Annick Barbaud l Secretary : Benedicte Lebrun-Vignes er : Vincent Descamps Limoges Lyon Région Rhône Alpes Auvergne **Région Centre** ster : Angele Soria entative for Regiscar : Laurence Valeyrie Bordeaux Région Sud Ouest $ers \rightarrow$ studies, recommandations Montpellier ing parties per year Toulouse uous medical education Région Sud Est Laurence Valeyrie Allanore Benedicte Lebrun-Vignes et des produits de santé REGISCAR

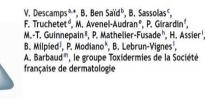
r standardization of our methods for drug skin tests (Nancy July 2014)

DRESS-DIHS Therapeutic guidance (French Society of Dermatology



harge du drug reaction with eosinophilia mic symptoms (DRESS)

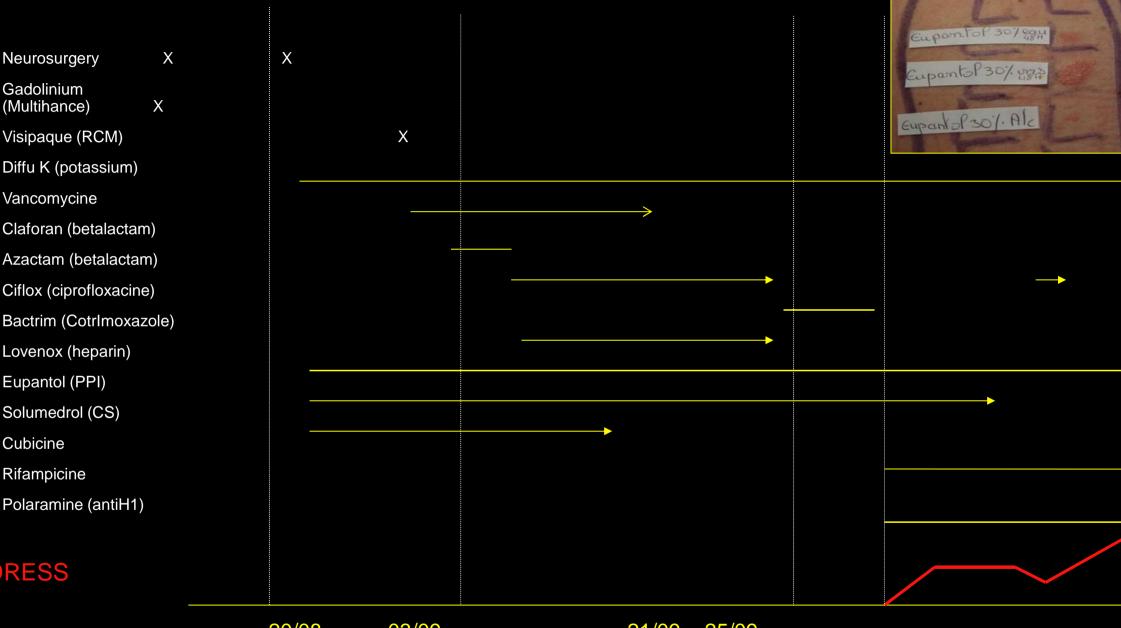
f drug reaction with eosinophilia and systemic symptoms (DRESS)



ermatol Venereol 2010;137:703-8.

- Therapeutic management depending on the severity of organ involvement and biological disturbances.
 - According to Regiscar scoring
- Repeated clinical and biological evaluations
- Multidisciplinary approach according to specific organ involvements.
- In all cases: Prompt withdrawal of culprit drug(s)

draw a diagram, with the chronology of all medications taken.



20/08 03/09

21/09 25/09

Determine the severity of organ involveme

ver dysfunction

- 29/33 DRESS/DIHS had liver dysfunction
- Severe hepatocellular-type, mixed or moderate to severe cholestatic-type liver injury
- The most common culprit agent were antibiotics (especially beta-lactams) 1

enal dysfunction

ung, and less frequent gut, pancreas, and the peripheral and central nervous ystems

ay attention to hypotension

- Among 24 patients with DRESS, 10 were hypotensive (5 with myocardial dysfunction) ³
- In 21 patients admitted to ICU with a confirmed diagnosis of DRESS, the most common clinical picture was shock (15 cases) with absence of any bacteriological process.⁴

1.Lee T et al. J Am Acad Dermatol 2013;69:4 2.Roujeau JC et al. Immunol Allergy Clin N Am 2014, 34: 473 3.Ben M'rad M et al. Medicine (Baltimore) 2009, 88:13 4.Kimmoun A et al. Shock. 2013;40:38

Determine the virus reactivation

- Serologies are not sufficient
- Do PCR for replication of:
 - Human herpes virus (HHV) 6
 - Epstein Barr virus
 - Cytomegalovirus

Limit the introduction of drugs

- Betalactam antibiotics could increase the herpesvirus reactivation
 - 7 cases of amoxicillin-induced flare in patients with DRESS induced by other drugs
 - In 2 cases, ex vivo: Amoxicillin increased the replication of HHV-6 at 25 microgmL-1 and 50 microgmL-1.
 - → Amoxicillin may induce a flare of DRESS, possibly by acting directly on herpesvirus replication.
- Multiple drug hypersensitivity to different drug classes prescribed before and during the DRESS course is not rare
 - With drug patch tests in13/72 DRESS (18%) versus 7/1925 (0.3%) in non severe CADR.

Descamps V et al. JAMA Dermatol. 2013;149:5 Barbaud A et al. Br J Dermatol Studer et al. Ann Dermatol Venereol 2

Therapeutic management

- No severity criteria:
 - Highly potent topical corticosteroids
 - Emollients

Therapeutic managemer In case of severity criteria (mild DRES

Cytolysis > 5N Organic renal failure Lung involvement...

Systemic corticosteroids (0.5 to 1 mg/kg/d prednisolone equivalent)

Systemic corticosteroids might favor a relapsing course of the syndrome \rightarrow do not interrupt treatment with corticosteroids too quickly

2015

Therapeutic management In mild DRESS: topical or systemic corticosteroid

- 38 patients with DRESS (RegiSCAR score of 4 or more)
- 25 cases (2/3) received potent topical corticosteroids alone (clobetasol);
- 13 patients (34%) with systemic steroids per os (prednisone, n = 3) or intravenously (methylprednisolone, n = 10)

Complications of DRESS, such as relapse, viral reactivation, and sepsis, were less frequent with topical corticosteroid than with systemic corticosteroids.

Therapeutic management

Reference center experience (Crete

Funck-Brentano E et al. J Am Acad Dermatol. 2015 ;72:246-52.

- ystemic steroids reserved to life-threatening organ avolvement.
- n mild DRESS: highly potent topical corticosteroids eem to be suitable (clobetasol)
- ORESS treatment strategies need to be evaluated

<u>DRESS CODE:</u>

- rench multicentric randomized controlled trial (oct 2013) comparing in moderate (mild) DRESS
- opical clobetasol
- o oral 0.5 mg/kg/d prednisone



Clinical Trials.gov Identifier: NCT01987076

Therapeutic management Life-threatening involvement

- Encephalitis, liver or lung failure, aplasia, hemophagocytosis, heart nvolvement...
- Regular clinical follow-up
- Biological follow-up:
- 2/week, a month
- 1/week, 3 months...

Steroid pulses

• Pulsed intravenous methylprednisolone: well tolerated in 8/10 DRESS Natkunarajah J et al. Eur J Dermatol. 2011;21:385-391

Therapeutic managemer

- Highly debated, is there any place for
- Ganciclovir + Systemic corticosteroids:
 - Benefit-risk balance undetermined
 - Toxicity of the antiviral drug?
- Bi-therapy: systemic corticosteroids AND Intravenous immunoglobulins (2g/kg) ?

Therapeutic management IVIGs must not be used as a single treatment in DRESS

- Tegeline (LFB Biomedicaments), 200 mg/kg/d For 5 consecutive days
- This study did not support a beneficial effect of IVIG treatment in patients with DRESS, since
 - 5 of 6 patients with severe DRESS experienced severe adverse events,
 - 1 pulmonary embolism
 - and 4 patients had to be treated with oral corticosteroids because of IVIG adverse effects
 - (2 malaises)
 - or uncontrolled DRESS (2 hemophagocytic syndromes)

JAMA Dermatology

Home Current Issue All Issues Online First Collections CME Multi April 2012, Vol 148, No. 4> <previous Article Next Article> Research Letters | Apr 2012 ONLINE FIRST Poor Benefit/Risk Balance of Intravenous Immunoglobulins in DRESS Pascal Joly, MD, PhD; Baptiste Janela, PhD; Florence Tetart, MD; Sylvie Rogez, MD, PhD; Damien Picar, Michel D'Incan, MD, PhD; Vincent Descamps, MD, PhD; Evelyne Collet, MD; Jean Claude Roujeau, MD, Philippe Musette, MD, PhD (+) Author Affiliations

Arch Dermatol. 2012;148(4):543-544. doi:10.1001/archderm.148.4.dlt120002-c.

Text Size:

study prematurely stopped by the ethics committee for safety reasons.

Therapeutic management

DRESS management strategies need to l evaluated: ancillary studies in « DRESS CODE

aliva and blood PCR assay for equential detection of Herpesvirus eactivation

/alue of drug patch tests in DRESS

- 6 months after the disappearance of DRESS
- In order to study drug hypersensitivity, multiple drug reactivities, cross reactions, which drug to test

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Study | May 2013

Saliva Polymerase Chain Reaction Assay for Detection and Follow-up of Herpesvirus Reactivation in Patients With Drug Reaction Wit Eosinophilia and Systemic Symptoms (DRESS)

Vincent Descamps, MD, PhD; Martine Avenel-Audran, MD; Laurence Valeyrie-Allanore, MD; Benoit Be Annick Barbaud, MD, PhD; Mustafa Al Jawhari; Sylvie Ranger-Rogez, MD, PhD; for the French Study (Cutaneous Drug Adverse Reactions

CUTANEOUS ALLERGY

British Journal of Der

A multicentre study to determine the value and safety drug patch tests for the three main classes of severe cutaneous adverse drug reactions

A. Barbaud,¹ E. Collet,² B. Milpied,³ H. Assier,⁴ D. Staumont,⁵ M. Avenel-Audran,⁶ A. Grange,⁷ S. Ama P. Girardin,⁹ M.-T. Guinnepain,¹⁰ F. Truchetet,¹¹ A. Lasek¹² and J. Waton¹ on behalf of the Toxidermies of the French Society of Dermatology

2012;168:555-62.

72 DRESS tested

3 key message

Therapeutic management of DRESS depends on the severity of organ ivolvement and biological disturbances and necessitates a nultidisciplinary approach

With prompt withdrawal of culprit drug(s), in avoiding adding too many ew drugs (risk of multiple drug sensitization),

In moderate DRESS, it is necessary to determine the value of potent opical corticosteroids compared to systemic CS

Thank you for your attentio