

Dermatological Reactions Due To Antidepressants-What We Know And What To Watch Out For?

Dr. Ankit Halder, Dr. Aditya Nair, Dr. Dhakshana Pushpanathan, Dr. Navna Panchami, Dr. Parth Nagda

(Junior Resident, Department of Psychiatry, DY Patil Medical College and Hospital, Kolhapur)* (Junior Resident, Department of Psychiatry, DY Patil Medical College and Hospital, Kolhapur) (Junior Resident, Department of Psychiatry, DY Patil Medical College and Hospital, Kolhapur) (Junior Resident, Department of Psychiatry DY Patil Medical College and Hospital, Kolhapur)

(Senior Resident, Department of Psychiatry, DY Patil Medical College and Hospital, Kolhapur)

 Submitted: 01-08-2021
 Revised: 08-08-2021
 Accepted: 11-08-2021

ABSTRACT

Antidepressants like Selective Serotonin Reuptake Inhibitors(SSRI),Selective Norepinephrine Reuptake Inhibitors(SNRI) ,Tricyclic Antidepressants (TCAs)have been known to result in dermatological reactions.Newer drugs like Mirtazapine ,Bupropion can also cause such skin reactions but not widely reported.Literature does not give any conclusive evidence regarding mechanism of such occurrence.Further sample based longitudinal study should be done for better understanding of such reactions and making better interventions for the same.

KEYWORDS : Antidepressants, Skin Reactions, Interventions

I. INTRODUCTION

Drug-induced skin reactions consists of a lot of symptoms, from mild exanthems to lifethreatening generalized reactions. Antidepressants that are commonly used include Selective Serotonin Reuptake Inhibitors(SSRI).Selective Reuptake Inhibitors(SNRI) Norepinephrine ,Tricyclic Antidepressants (TCAs)[1,2].They have been known to result in dermatological reactions.In modern day treatment along with these drugs, use of other antidepressants like Bupropion, Mirtazapin, Trazodone etc. have increased progressively due to increased cases of Resistant Treatment Depression(TRD) [3,4].Dermatological reactions due to these agents have not been widely reported.So while starting such drugs proper monitoring should be done to diagnose and manage such at an early stage.

II. DISCUSSION

As we are using antidepressant drugs on such a wide range now it is important to pay attention to and highlight its unwanted effects, that despite a good reaction to the drug, might be contraindications to these therapies. Firstly, severe skin symptoms connected with antidepressant treatment concerned only tricyclic drugs. Then with the development of pharmacotherapy , new information regarding the drugs from SSRI groups arose.[5]

There were increased interest in the high-risk skin reactions including:

- 1. Erythema multiforme (EM);
- 2. Stevens-Johnson syndrome (SJS);
- Lyell's syndrome (toxic epidermal necrolysis TEN);
- 4. Acute generalized exanthematous pustulosis (AGEP);
- 5. Drug-induced hypersensitivity syndrome (DIHS).

These reactions is mainly mediated by chemically reactive metabolites formed by the cytochrome P450 enzyme system, the toxicity occuring either directly or indirectly via an immune mechanism.[6]

The risk of these reactions is less likely to be dependent on selectivity against specific receptors. It is mostly dependant on other features of the patient. One is the age - it has been noticed that the majority of unwanted drug-induced reactions occur in young children and in people above the 65 years age. In elderly population we may come across coexistence of other somatic diseases and as a result, with acquiring many drugs. Over-the-counter drugs, like nonsteroidal antiinflammatory drugs, can often be the confounding factor of skin complications.[5,6] Such skin reactions due to drugs can appear as well with other infectious constitutional or illnesses or environmental factors like smoking or abuse of alcohol.

NewergenerationdrugslikeMirtazapine,Bupropionhasbeenreported tocause



adverse dermatological reactions but not widely.[3,4]

III. CONCLUSION

Management with antidepressants is the cornerstone of treating Major Depressive Disorders or any psychiatric or physical illness where depression is an associated feature. Mild to severe dermatological reactions is found in literature to the conventional as well as newer antidepressants.Mechanism of such is not clear.So while putting a patient on such drugs in psychiatry settings we need to be careful during follow up visits for monitoring the patients for the same.Further sample based longitudinal study is the need of the hour for better compliance and management.

REFERENCES

- Litvak R., Kaelbling R. Dermatological side effects with psychotropics. Dis Nerv Syst 1972 May; 33 (5): 309–311
- [2]. Bigby M., Jick S., Jick H., et al. Druginduced cutaneous reactions: a report from the Boston Collaborative Surveillance Program on 15,438 consecutive inpatients, 1975 to 1982. JAMA 1986 Dec; 256 (24): 3358–3363
- [3]. Ray AK, Wall GC. Bupropion-induced acute generalized exanthematous pustulosis. Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy. 2011 Jun;31(6):621-.
- [4]. Tuman TC, Tuman BA, Sereflican B, Yildirim O. Skin rash following combination treatment of sertraline and mirtazapine. Psychiatry and Behavioral Sciences. 2016 Apr 1;6(2):91.
- [5]. Herstowska M, Komorowska O, Cubała WJ, Jakuszkowiak-Wojten Κ, Gałuszko-Węgielnik M, Landowski J. Severe skin complications in patients treated with antidepressants: literature а review. Advances in Dermatology and Allergology/Postępy Dermatologii i Alergologii. 2014 May;31(2):92.
- [6]. Pirmohamed M, Kitteringham NR, Park BK. Idiosyncratic reactions to antidepressants: a review of the possible mechanisms and predisposing factors. Pharmacology & therapeutics. 1992 Jan 1;53(1):105-25.