



DERMA TODAY

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Dear Doctor,

Greetings from Micro Labs. We are happy to bring you "**Derma Today**" which contains latest and interesting news in the field of Dermatology.

This issue contains:

1. Do Blood group have a role in pathogenesis of Rosacea?.
2. Today's Pick: Immunomodulators may require dose adjustment in COVID pandemic.

Should you require any article or, medical information, please feel free to contact us
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Looking forward to your valuable feedback.

Best Regards,

Medical Team, Micro Labs Limited.





Do Blood group have a role in pathogenesis of Rosacea?

Background:

The pathogenesis of rosacea yet understood completely.

Innate immune system is known to be deranged in patients presenting with rosacea. This leads to abnormal release of inflammatory cytokine.

It has been claimed that molecular mechanism in role of ABO blood group antigenic system in human diseases may arise due to its relationship with von Willebrand factor and several pro-inflammatory and adhesion molecules.

This relationship between ABO-Rh groups and rosacea doesnot have much scholarly data.

Methods

In this study: One hundred and fourteen patients were enrolled.

These patients were diagnosed with rosacea and 258 healthy individuals who had blood group record were included in this study.

The results thus collected from the enrolled participants were analyzed statistically.

Results

In terms of ABO blood groups:

In the patient group:

54 patients or, 47.4% had A.14 patients or, 12.3% had B. 7 patients or, 6.1% had AB. 39 patients or, 34.2% had O blood.

In the control group:

109 or, 42.2% individuals had blood group A. 45 or, 17.5% individuals had blood group B. 29 or, 11.2% individuals had blood group AB. 75 or, 29.1% individuals had blood group O. There was no significant difference between the groups ($P > .05$).

In terms of Rh groups, 103 or, 90.4% patients were found to be Rh (+) and 11 or, 9.6% patients were found to be Rh (-).

In the control group, 220 or, 85.3% individuals were found Rh (+) and 38 or, 14.7% were Rh (-). There was no significant difference between the groups ($P > .05$)



Blood groups	Rosacea group n	%	Control group n	%	Total n	%
A(+)	51	44.7	92	35.7	143	38.4
A(-)	3	2.6	17	6.6	20	5.4
B(+)	12	10.5	41	15.9	53	14.2
B(-)	2	1.8	4	1.6	6	1.6
AB(+)	5	4.4	23	8.9	28	7.5
AB(-)	2	1.8	6	2.3	8	2.2
O(+)	35	30.7	64	24.8	99	26.6
O(-)	4	3.5	11	4.3	15	4.1

TABLE 1 Blood group distribution of the rosacea and control groups

Conclusions

Even though, no relationship could be established in the study, the researchers believe that there can be a possible relationship.

However, this study published in the Journal of cosmetic dermatology throws light on a hypothesis not much studied & can open up further comprehensive research on the same.

Ozturk M, An I. Journal of Cosmetic Dermatology. 2020 Feb;19(2):400-3.

Today's Pick

Immunomodulators may require dose adjustment in COVID pandemic.

Immunomodulation therapy may require extra precaution & modification during the pandemic.

The American Academy of Dermatology recommended against stopping these medicines in patients who are already the therapy and also in case of patients with severe diseases requiring these medicines

In a paper, Dr. John Zampella of New York University School of Medicine expanded upon recent guidelines from the academy, as he emphasized avoiding medications that inhibit molecular pathways involved in the immune system's ability to fight off viruses



They pointed that biologic therapies that blunt Th1 response: TNF-alpha inhibitors, CTLA-4 inhibitor & IL-12/23 inhibitor may require precautions to diminish the risk of infection.

Similar precautions should be taken with non-biologic therapies, which cause immunosuppression.

Though some dermatologist would still want to maintain their patients on their biologics and immunosuppressants .

In a second paper, Dr. Alessia Villani of the University of Naples report their experience in managing patients with advanced basal cell carcinoma on sonic hedgehog inhibitor therapy during the outbreak. All patients responded to treatment.

From a pathophysiologic standpoint the sonic hedgehog pathway may be involved in early stages of T-cell maturation; however, it has less role later.

So other than general immunosuppression from cancer or getting chemotherapy, this medicine may not be worrisome than other modes of chemotherapy or immunomodulatory therapies that directly impact the body's capability to fight the COVID viruses.

<https://bit.ly/2Vfasq2> and <https://bit.ly/2Vjeuh9> Journal of the American Academy of Dermatology, online March 31, 2020.



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