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CODEN [USA]: IAJPBB

ISSN: 2349-7750

INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES

http://doi.org/10.5281/zenodo.2649427

Available online at: <u>http://www.iajps.com</u>

Research Article

AN EVALUATION OF AUDIT OF PATIENTS OF EPISTAXIS: TREATMENT MODALITIES AND RELATION WITH BLOOD GROUPS

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	Article Received: Februar	y 2019 Acce	pted: March 2019	Published: April 2019
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Abstract:

Background: in emergency wards, the situation that mostly handled is epistaxis.

Objectives: The objective of this research study was to highlight the association of epistaxis with blood groups, modalities, pattern of epistaxis and its management.

Patients and methods: The place selected for this research study was department of ear, throat, heads, nose, and neck surgery, Mayo Hospital Lahore. The time period allocated to this study was from 1st January to 31st December 2018. The people with reasons such as rhinolith granulomatous situation, trauma, blood dyscrasia, foreign bodies and less than one year of age were rejected. The people selected for this study were with serious epistaxis. These patients need hospital treatment. The numbers of the patients excluded from study were 60. The purpose of rejection was granulomatous disorder; tumor of rejection was granulomatous disorder, tumor and blood dyserasia. 100 controls were choose for this study for the purpose of assessment of connection of blood grouping with epistaxis age, blood groups, made of presentation, reason and management modalities of adjacent 160 cases of epistaxis that were hospitalized. Cases of epistaxis that were hospitalize. SPSS was used for data assessment by manual technique.

Results: The most ordinary reason above 50 years was hypertension. Comparative to females, male patients (72%) suffer from this disorder mostly. Sixty (60%) and seven (7%) were presented with hypertension and chronic rhino sinusitis respectively. Anterior nasal pack was carried for eighty five (85%) patients whereas posterior nasal packing was carried out for 15(15%) patients. The number of patients within 1 to 9 years, 10 to 29 years, 30 to 49 years and above fifty were seven (7%), nine (9%), twenty (20%), and sixty (60%) patients respectively. In control group, 38% patients were having blood group (0) while 47% in other.

Conclusion: It was concluded that most of the patients of epistaxis were with blood group 'O'. Trauma, blood duserasia and granulomatous disorder were excluded from the study so, main reason in hospitalized patients was hypertension. In management of epistaxis, anterior nosal packing is still significant.

Keywords: Epistaxis, Hypertension, Nasal packing, Blood groups.

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Please cite this article in press Saira Arshad et al., An Evaluation of Audit of Patients of Epistaxis: Treatment Modalities and Relation with Blood Groups., Indo Am. J. P. Sci, 2019; 06(04).

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INTRODUCTION:

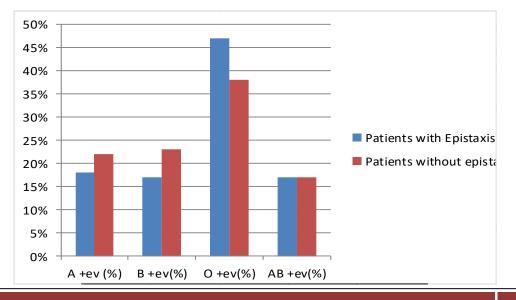
All around the world, patients of epistaxis and their relatives are restless due to this disorder. The disorder of epistaxis is most ordinary otorhinolaryngology emergencies worldwide (1-4). In Pakistan this disorder is commonly found. Identification of epistaxis is difficult in many cases (5). In its causes, local as well as systemic pathologies can be included (6). From posterior site of sphenopalatine artery or from various sites mainly little's area are the paints where bleeding may start (7-8). Correction of sepal deviations, vessel ligation, anterior and posterior nasal packing and countries are factors used in the management of epistaxis (9). The objective of this research study was to highlight the association of epistaxis with blood groups. Modalities, pattern of epistaxis and its management.

PATIENTS AND METHODS:

The place selected for this research study was department of otorhindaryngology Mayo Hospital Lahore. The time period allocated to this research study was from 1st January to 31st December 2018. One hundred and sixty patients were selected successively. A Performa was designed and

information was entered in this Performa. The comparison was made between patients of epistaxis and patients without epistaxis regarding blood groups. 100 patients were chose as a control group. This group contains fifty male and fifty female. For these patients, blood grouping was carried out. The people with granulomatous disease, nans bone and foreign body nose was excluded from this study. The numbers of such patients out of one hundred and sixty were sixty (32.21%). The people with reasons such as rhinolith granulomatous situation, trauma, blood dyscrasia, foreign bodies and less than one years of age were excluded from study. The people selected for this study were suffering with serious epistaxis. These patients need hospital treatment. Standard slide technique was carried out for identification of blood groups. On glass slides, a drop of each of the monoclonal anti-sera (Anti A, Anti B, and Anti D) was put. Separate glass rod was used for mixing of blood with each serum. After 5 minutes, agglutination reaction was observed and on this basis, blood groups were identified. For the console of disease, anterior and pastier nasal packing was carried out.

Table II: blood groups in patients with and without Epistaxis.								
Blood Group/patients	A +ev (%)	B +ev(%)	O +ev(%)	AB +ev(%)				
Patients with Epistaxis	18%	17%	47%	17%				
Patients without epistaxis	22%	23%	38%	17%				



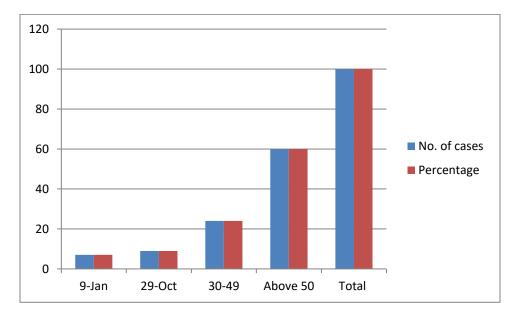
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RESULTS:

Total patients enrolled for this study were 100. These patients were having secure epistaxis. 100 consoles were choose for this study. The aim of console group was assessment of connection with blood grouping. The percentage of males in console group and epistaxis patients was 50% and 72% respectively. The age of 60% of the patients having epistaxis was more than 50. (table I).in both groups, blood group O was commonly found. The relationship of blood group O and epistaxis was positive (P blue <0.05>

(table II). In console group, 38% patients were having blood group O, while 47% patients in others. (Table III). In more than half of patients, the most common cause of epistaxis was hypertension 30% patients were unaware of this reason. However, for management of hypertension, antihypertensive medication was used by 16 patients. In fifteen (5%) patients, deflected nosal septum was identified. Repeated Rhino sinusitis was noticed in twenty (20%) cases. The reason was not observed in 5% of remaining cases.

Table I: age distribution of epistaxis patients.							
Age in years	01-9	10-29	30-49	Above 50	Total		
No. of cases	7	9	24	60	100		
Percentage	7	9	24	60	100		



DISCUSSION:

All over the world, the most ordinary ENT emergency is epistaxis (10,11,12).epistaxis leads to some other disease which is not obvious. Comparative to females (72%) suffering with epistaxis is high. The main reason of epistaxis sinusitis (20%). In the month of summer, the occurrence of epistaxis is increased. The climate of Rahim Yar Khan is hot with low humidity. Due to this, nose becomes dry and creates creases. Bleeding starts as vessels nuptures. Epistaxis and blood group O have strong relation. On the basis of antigen of red blood cells (RBC), blood group is identified. Four groups are made for blood which included, A,BAB and O, based o these antigens.(12-15). Miller et al (16) organized a study. He noted that comparative to non O blood groups, expression of von willerbrand was lower in blood group O. Mild form of bon

willebrand disorder is mostly observed in people having blood group O (16-17). It was considered that in the establishment of epistaxis, blood group O be may be a associated factor (18-19).

CONCLUSION:

It was concluded that most of patients of epistaxis were with blood group O. trauma, blood duserasia and granulomatous disorder were excluded from the study so, main reason in hospitalized patients was hypertension. In management of epistaxis, anterior nosal packing is still significant.

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