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Anemia and Its Application in Current Research World

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Abstract

Anemia is a major blood disorder, in which red blood cell count is decreased to below normal level and it affects the transport of oxygen to body tissue. In this condition the body gets low oxygen supply and leads to oxidative stress. Anemia can be caused by blood loss, destruction of red blood cells or less synthesis of red blood cells. The main symptoms of anemia include pale face, exhaustion, and difficulty in breathing, dizziness or a fast heartbeat. If we haven't diagnosis the anemia in time then it may leads to death of that individual. The treatments used for the diagnoses of anemia are, one should maintain the normal iron level by taking the iron supplements to overcome the anemic condition. In blood loss condition, transfusion of healthy blood to the patient will helps to overcome the anemia. To increase the productions of RBC, one can use the medications like vitamin B and C and Erythropoiesis-Stimulating Agents are used.

***Keywords:** Antioxidant effect; Anemia; Blood loss; Red blood cells*

Introduction

Anemia is a blood disorder in which we can see less number of red blood cells or haemoglobin. The anemic patients mainly face insufficient oxygen supply to body tissues due to lack of red blood cells or haemoglobin. This condition can be seen in the individual who has lack of iron molecules, or due to thalassemia (lack of vitamin B12) or loss of blood due to any major injuries. Major symptoms which can be seen in the individual who is suffering with anemia are dizziness, fatigue, difficulty in breathing and increased heart beat due to less number of oxygen in blood tissue to overcome that heart will pump more blood to body parts. To make an aware of this anemic conditions people has to follow the instructions given by physicians, consultants and reputed journals magazines to know more information about anemia and its diagnosis. There are vast numbers of societies working on anemia to get better treatment procedures for curing.

The British Society for Hematology, Bringing hematology professionals together since 1960 to transform the care for patients. There are vast number of societies are helping people to aware of anemia conditions and also to get better treatment remedies to treat anemia condition. Thalassemia International Federation is a non-profit organization established in 1987 and its main aim is "prevention and quality treatment of thalassemia and their vision is to establish equal access to excellent health care for patients suffering with thalassemia and other haemoglobin disorders across the world".

Anemia and its Applications

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There is more number of renowned journals which are helping individuals to understand the effects and diagnosis of life threatening diseases like blood cancers in its early stage. Journal of Blood Research & Hematologic Diseases is an Open Access peer-reviewed scholarly journal that aims to publish the most complete and reliable source of information on basic and translational studies of Blood research and associated diseases. Journal of Biology and Medicine is an open access journal which provides most or readers regarding pathological and medical studies on various types of diseases and organs system in our body. Journal of Hematology & Thromboembolic Diseases is a peer reviewed medical journal that includes a wide range of fields of Hematology and its diseases like thrombosis, embolism, clotting of blood etc. The journal publishes the article which are examined and reviewed by editorial members and also external reviewers to check the novelty of articles. Here I have mentioned one article which was published in this journal and the article present a 56 yr. old female patient with medical antecedents of sarcoidosis presenting a cold antibody autoimmune hemolytic anemia. A good response to corticosteroid treatment was achieved during hospitalization.

There are conferences which are going to be held on Hematology to promote the standard medical research on various diseases like anemia and leukemia. In which Clinical and Experimental Hematology is going to be held on October 16-17, 2017 at Rome, Italy. Which has been designed with many interesting and informative scientific sessions; it includes all possible Clinical and Experimental aspects of Hematology research. World Hematologists Congress is going too held on May 08-09, 2017 Barcelona, Spain. The main theme of the conference is to bring the all the Hematology experts on one plate form to present or execute their research experience or research works on blood research & hematologic diseases. International Conference on Blood Cancer & Treatment is going to be held on June 26-27, 2017 London, UK. Which is mainly focuses on the better treatment criteria's of the blood cancers like leukemia, lymphoma and myeloma.

At present anemia is a trending disorder in many individuals the condition may occur due to loss of blood or less number of blood cell production. As it is growing in present world there are vast number of experts in this field to evaluate or examine the anaemic patients to invent better quality medication to prevent the diseases with low cost. There are few experts like Richard T. Silver who is helping people by sharing his research experience in the form of research articles and editorial to make the people aware of endangerous diseases like leukemia, Polycythemia Vera, Essential thrombocythemia. His recently published editorial in Journal of Blood Research & Hematologic Diseases will explain about the recent importance of recombinant interferon alpha (rIFNα) for the treatment of polycythemia Vera (PV) or essential thrombocythemia (ET), favoring the use of phlebotomy and/or hydroxyl urea. Here we express our reasons for the use of rIFNα early in the course of PV or ET in the absence of a phase 3 trial.

Now-a-days the medications used to cure the anemic patients are too high and the people who are from developing countries are unable to buy the proper medication to cure the diseases. Deborah White is Principal Research Fellow at SAHMRI and she works on Cancer Theme at South Australian Health and Medical Research Institute, Australia. Deborah has kept all her research experiences in an editorial to evaluate and aware of the Role of Wnt/β -Catenin Signaling in Normal and Malignant Hematopoiesis. The editorial will help us to know important facts about blood cancers and its therapies to cure. Currently she is an active Editorial Board Member of Journal of Blood Research & Hematologic Diseases. White research interests include the chronic myeloid leukemia (CML) and acute lymphoblastic leukemia (ALL).

In current days childes are affected to major diseases like Leukemia, cancers, etc. When a child is suffering from a serious, often fatal, acquired disease such as leukemia or cancer, or a genetic disease with poor prognosis, and thus is hospitalized for long periods of time, the uncertainty and unpredictability keep parents in a state of constant anxiety that is hard to deal with and difficult to control while maintaining a well-balanced behavior. Luisa M. Massimo is an expert in the field of Pediatrics,

Health management, Oncology, Pediatric Hematology/Oncology, Bioethics, Psychology and quality of life. She has explored her ideas on leukemia and cancers to aware the most of people who are suffering with them. She even performed many research works and published novel and innovative works on various types of blood cancers to overcome the possibility of death or major side effects of those diseases. At present she has retired as a scientist and helping people through her experience in particular filed to get aware of many researchers also people.

Conclusion

Anemia is a blood disorder and it is most prominent and prevalent in Europe. Many innovative technologies have been developed to reduce the harmful effects due to anemia. All this information can be accessed in open access health care journal publications which show the novel and innovative techniques to cure the anemia and also it included the recent discoveries of researches which have been taking place in current research field. There are so many experts who were sharing their views and suggestions through the open access literature which can be accessed by all in order attain knowledge on anemia. However, anemia is major blood related disorder in European countries, they are developing many innovative techniques to overcome the problem of anemia and later the research work is going to be serious to coin the novel medicines and techniques to diagnose the anemia patient's with prior implementations.

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