

## The Jordanian method for stem cell therapy: Impact of stem cells on susceptibility to diseases

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The fast advancing field of stem cell transplantation (SCT) is currently affecting vast majority of medical practices worldwide, ultimately altering the susceptibility of patients to different diseases. Currently, there are no clear guidelines for SCT in treating non-hematological diseases. An acceptable SCT plan should provide high quality treatments without compromising patient safety, and must include (1) defining types and sources of stem cells, (2) methods of stem cell collection and handling in the laboratory, and (3) methods of SCT by authorized personnel in a licensed facility. In 2007, *Jordanian Method* was developed for utilization of autologous purified stem cells for treatment of chronic human illnesses which has been used at different facilities around the world. Using the *Jordanian Method*, highly pure autologous populations of stem cells were obtained in a safe and effective manner. Bone marrow or peripheral blood as sources is used for obtaining autologous stem cells. Red blood cells (RBCs) are removed by density-gradient centrifugation to obtain mononuclear cells (MNCs), which contain a small fraction (1-3%) of stem cells of different types. Then a clinically-approved system for magnetic purification of CD34+ and CD133+ stem cells is used; which allows to obtain highly pure (>95%) stem cells in a clinical setting. These pure cells are then transplanted into the affected organ in a safe manner. The *Jordanian Method* was used to treat incurable human diseases such as neurological diseases, spinal cord injuries, infertility, blindness, cardiac diseases, and liver damage, with varying success rates. Results showed that patients treated with their own autologous purified stem cells exhibited minimum side effects, long lasting healing effects, and were less susceptible to other diseases. Autologous stem cells remain the safest type of cells since they are not rejected by the patient's body, easily available in many diseased patients, and can be collected using non-invasive procedures.

### Biography

Adeeb AlZoubi is a prominent stem cell and immunology scientist in the Middle East, where he participated in the development of several unique methods for utilization of autologous stem cells in treatment of chronic and incurable human diseases using the Jordanian Method. He is a council member of the International Association of Neurorestoratology (IANR), a founding member of The International Stem Cell Academy, a member of the International Stem Cell Study Group Association (ISCSG), American Association for Cancer Research (AACR), and is serving as an editorial member and a reviewer in a number of scientific journals.

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