

## Early immunotherapy with autologous adult stem cells in type 1 Diabetes mellitus recently diagnosed

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Immunological properties of adult stem cells allow the treatment of autoimmune diseases such as diabetes newly diagnosed type 1. The mechanisms of action of stem cells have been described in vitro experiments. Our clinical experience in the use of autologous bone marrow stem cells show promising results that confirm the expectations generated by animal research. The negativization of insulin, GAD and pancreatic islets antibodies is accompanied by a significant increase in peptide c and a sustained decrease in daily insulin use in 90% (9/10) of patients treated with this technique. These clinical changes are observed after four months of treatment and persisted at 18 months follow-up. We believe that this clinical experience should be the base for the development of an early treatment of newly diagnosed type 1 diabetes.

### Biography

Alejandro Mesples obtained its title of Medical Doctor in the School of Medicine - National University of Tucuman in Argentina in 1992. He earned a AFSA in Cardiovascular Pathology at the University Louis Pasteur, Strasbourg (France). He Conducted a Post-Graduate specialization in Interventional Cardiology in Bellvitge Hospital (Interventional Cardiology Service) University of Barcelona (Spain). In 2004 conducted the first clinical trial design, with government approval, that was made in Latin America in chronic type 1 diabetes. In 2009 he was a member of the Scientific Board of the International Cell Medicine Society (ICMS). At present is Director of Diabetes Education and Research Institute, Buenos Aires, Argentina. Since 2011, he is working with the Shenzhen Beike Cell Engineering Research Institute, Shenzhen, China. He has over 50 papers presented at international medical journals as first author and co-author. He also participated as a speaker at international congresses.

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