Iranian tissue bank: Past, present and future

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Iranian Tissue Bank (ITB) has been the first multi-facility tissue bank in Iran. Its activity started in 1994 by preparing homograft heart valves and later on provision of gross bone for orthopedic surgeons. From 1994 to 2006, more than 2700 tissues from cardiac dead donors were procured. Later on, it got expertise for higher technical activities to produce particulated mineralized and demineralized bone allograft in different sizes (powder, crushed, chips and matchsticks). Different preservation techniques from simple hypothermia and freezing to lyophilization were developed which provided facilitation in transport in a country with more than 1.5 million Km2. In 2012, partial split-thickness skin allograft and acellular dermis were added to the production line. At present, all kinds of tissues are provided and this center is mainly the platform of research in the field of cell seeding on human scaffolds. The future field of this center will be expanding the activity of tissue procurement in Middle East and production of semisynthetic grafts. All procedure of tissue processing is done under clean conditions of class 100 laminar flow hood in class 10000 clean room. All tissues are procured under aseptic conditions.

Biography
Mitra Mahdavi-Mazdeh has completed her MD from Tehran University of Medical Sciences and subspecialty of Nephrology from the same university. She is the Director of Iranian Tissue Bank Research Center. She has published more than 70 papers in reputed journals and has been serving as an Editorial Board Member of International Journal of Organ Transplantation Medicine and Head of Tissue and Cell Committee of Middle East Society of Transplantation.

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