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New minimal invasive endovascular treatment of maxillofacial vascular lesions

Vascular malformations are most frequent located in the maxillofacial area. It is important that a proper diagnosis is made, as the treatment is different for the different types of vascular lesions. *Arteriovenous Malformations* and *A-V fistulae*, are high flow lesions, with a reddish discoloration, the temperature over the area is increased, with prominent pulsations, a thrill and a bruit may be present. There will be mass effect, compression of vital structures, pain and hemorrhage. It is the most difficult type to treat, and it is the most aggressive in presentation. *Venous Malformations* are slow flow lesions, and the most frequent type of vascular birthmark. Frequently multifocal. Symptoms depend on the location, mass effect, cosmetic and functional manifestations, discomfort and pain. The skin over the area is of normal temperature with bluish discoloration, there easily compressible, none pulsatile and they will expand with Valsalva maneuvers. *Lymphatic Malformations* are very low flow collections of lymphatic fluid. They present as non-compressible mass lesions with contour deformities, compression of vital structures may occur. The skin is of normal temperature, nonpulsatile. They may be macrocystic or microcystic, or mixed. *Hemangiomas* are proliferative tumors of infancy they appears shortly after birth and will go through a rapid growth cycle the proliferative phase, reach her maximum within months or several years and then spontaneously involute. We will present the various endovascular techniques, including transarterial embolization, percutaneous embolization, sclerotherapy, combination treatments.

Biography

Alejandro Berenstein has graduated from the UNAM and is currently a Professor of Neurosurgery, Radiology and Pediatrics. He is the Director of the Hyman-Newman Institute for Neurology and Neurosurgery at Mount Sinai Health System in NYC. He has authored over 150 publications in peer-reviewed journals, more than 25 chapters in the field and 9 books including the five volumes ground-breaking textbook, "*Surgical Neuro-angiography*". He has been a Visiting Professor, Lecturer and Faculty in over 600 occasions. He became the first President of the World Federation of Interventional and Therapeutic Neuro-radiology and third President of the American Society of Interventional and Therapeutic Neuro-radiology and has been the President of SILAN the Latin-American Society of Neuro-radiology for 2012-2013.

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