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The integral role of neurosurgery in managing rare craniofacial anomalies

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Craniofacial anomalies are rare complex pathologies which needs a craniofacial team composed of neurosurgeon, a craniofacial plastic surgeon, and an ophthalmologist. Anomalies at craniofacial region either due to developmental malformation of the brain (neural tube defects) or the premature closure of cranial or skull base sutures resulting in skull deformities and problems in normal physiological neurological development. Each of pathologies needs special neurological surgery management, sometimes the management is multi-staged. Neurosurgical management varied from diagnosis, the surgical procedures and long-term follow up. Hence, we describe the pathology of craniofacial anomalies and its associated syndromes in addition to the proper investigation needed for diagnoses and predict possible short and long-term complication. Also, what craniofacial anomalies care giver should be focusing on regarding neurological issues such as intra-cranial pressure early detection and treatment if high and optic nerve problems. Also, dural repair, dealing with brain parenchyma and its vasculature, and better cosmetic outcome according to craniofacial metrics.

Biography

Dr. Hazem Ahmed Mostafa, MD., PhD, is an internationally recognized neurosurgeon with over two decades of clinical and research experience. He's affectionately known as Dr Brain and Spine. Dr. Hazem Ahmed Mostafa MD., Ph.D, is a professor in the Department of Neurosurgery at Ain Shams University Cairo, Egypt since 2014, where he joined the faculty as an Assistant Lecturer of Neurosurgery in 1997. He is a Consultant of Neurosurgery at his own private clinics Neuro Clinic Cairo and Hurghada-Red Sea, Egypt since 2001. Prior to his current position, he was a lecturer of Neurosurgery at Ain Shams University Hospital, Cairo, Egypt and a Consultant of Neurosurgery at El-Gouna Hospital, Hurghada-Red Sea, Egypt. Hazem is a native of Egypt. He graduated from the Faculty of Medicine Ain Shams University in1992, attaining magna cum laude honors with dual degree M.B.and B.Ch., and completed a combined residency in Neurosurgery and Cerebrovascular Stroke Unit at Ain Shams University Specialized Hospital, Cairo, Egypt in1995. He later went on to complete his Master's Degree of General Surgery (MS) in1997 andM.D. Degree of Neurosurgery (Doctoral Degree of Neurosurgery) in 2001. Dr. Hazem's has dedicated a significant part of his career to developing innovative educational research withover 33 published research papers in the Egyptian Society journal. Dr. Hazem is an active member of the Egyptian Society of Neurological Surgeons since 1997. He is an international Faculty at A O Trauma Foundation. He is also an international fellow member of the Institute of Brain Chemistry and Human Nutrition (IBCHN-UK). Hazem joined the North American Spine Society in 1999. He trained as a fellow at the Spine Center Munich 2005–2006. He is participating in the education programs of the junior Neurosurgeons in Egypt and member of examiners' board of the Ph.D, M.D and Masters' Degree of Neurosurgery.

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