adolescents, increased portion sizes of less healthy foods and beverages in restaurants, lack of daily and quality physical activity in all schools, spending a lot of time on sedentary pursuits (such as TV, computers, video games, cell phones, and movies), lack of safe and appealing place in many communities to play or be active^[11].

In conclusion, obesity in children shows a critical increase compared to previous studies. It is necessary that health policies monitor children's weight and advise and support diet and lifestyle change to prevent the development of weight problems. The prevention and management of obesity in children should be considered a priority to have a bright future with least heart disease.

Key words: Overweight; Obesity; Adolescents

References

- Maiti S, Chatterjee K, Monjur Ali K, et al. Overweight and Obesity among Urban Bengalee Early Adolescent School Girls of Kharagpur, West Bengal, India. Iran J Pediatr 2013; 23(2):237-8.
- Zakeri M, Sedaghat M, Motlagh ME, et al. BMI correlation with psychiatric problems among 10-18 years Iranian students. Acta Med Iran 2012; 50(3):177-84.
- 3. Gupta N, Goel K, Shah P, et al. Childhood obesity in developing countries: epidemiology, determinants, and prevention. *Endocr Rev* 2012; 33(1): 48-70
- 4. Shajari H, Shajari A, Sepahi MA, et al. Relationship between arterial blood pressure and body mass index of school age children of southern region of Iran. *Acta Med Iran* 2011; 49(11):737-41.
- 5. Motlagh ME, Kelishadi R, Ziaoddini H, et al. Secular trends in the national prevalence of overweight and obesity during 2007-2009 in 6-year-old Iranian children. *J Res Med Sci* 2011; 16(8):979-84.
- Kelishadi R, Cook SR, Motlagh ME, et al. Metabolically obese normal weight and phenotypically obese metabolically normal youths: the CASPIAN Study. J Am Diet Assoc 2008; 108(1): 82-90.
- Mirmiran P, Sherafat- Kazemzadeh R, Jalali-Farahani S, et al. Childhood obesity in the Middle East: a review. East Mediterr Health J 2010; 16(9): 1009-17.
- Hajian-Tilaki KO, Sajjadi P, Razavi A. Prevalence of overweight and obesity and associated risk factors in urban primary-school children in Babol, Islamic Republic of Iran. East Mediterr Health J 2011; 17(2): 109-14.
- 9. Taheri F, Kazemi T. Prevalence of overweight and obesity in 7 to 18 year 0ld children in Birjand/ Iran. *Iran J Pediatr* 2009;19(2):135-140.

- 10. Taheri F, Kazemi T, Chahkandi T, et al. Prevalence of Overweight, Obesity and Central Obesity among Elementary School Children in Birjand, East of Iran, 2012. *J Res Health Sci* 2013;13(2):157-61.
- 11. Bahreynian M, Paknahad Z, Maracy MR. Major dietary patterns and their associations with overweight and obesity among Iranian children. *Int J Prev Med* 2013;4(4):448-58.

Interchoroid Plexus Adhesion, a Rare Anatomical Anomaly Found with Neuroendoscope

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Myelomeningocele (MMC) is a malformation commonly associated with diverse cerebral abnormalities including Chiari II, hydrocephalus, corpus callosum agenesis, and absence of septum pellucidum^[1]. Gross choroid plexus anomalies like cyst and bifida have been reported before^[2-4] but to our best knowledge, interchoroid plexus adhesion has never been reported so far.

Our patient is an 8 month old girl, known case of MMC who underwent endoscopic third ventriculostomy (ETV) and choroid plexus cauterization (CPC) to address hydrocephalus. Her brain magnetic resonance imaging (MRI) was confirmative of aqueductal stenosis, corpus callosum agenesis and absence of septum pellucidum. During ETV/CPC, aberrant choroid plexus was found above the fornix attached to choroid plexus of both lateral ventricles at level of trigon that was cauterized (Fig. 1).

Choroid plexuses are developed shortly after closure of neuropores as a part of the development of ventricles in the roof of neural tube. The epithelial surface of lateral ventricle is covered with loosely arranged mesenchyme and developing blood vessels which invaginate the epithelium of lateral ventricle to form its choroid

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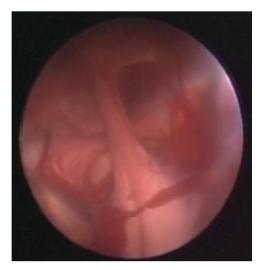


Fig. 1: Photo taken during endoscopy confirms both lateral ventricle choroid plexuses and bundle of choroid plexus attached to them.

plexus. The definitive form of choroidal fissure and plexus depends on growth patterns of neighboring anatomical structures^[2-4]. Therefore absence of septum pellucidum can be responsible for this malformation of choroid plexus due to lack of any tissue between the primitive choroid plexuses of lateral ventricles. Considering this hypothesis, this malformation should be observed

more frequently in patients with MMC and associated absence of septum pellucidum. Rarity of this anomaly might be partially explained bylimitation of current brain imaging to reveal this anomaly.

Key words: Myelomeningocele; Choroid Plexus; Septum Pellucidum

References

- Baradaran N, Ahmadi H, Nejat F, et al. Nonneural congenital abnormalities concurring with myelomeningocele: Report of 17 cases and review of current theories. *Pediatr Neurosurg* 2008;44(5): 353-9.
- 2. Dias MS, Partington M. Embryology of myelomeningocele and anencephaly. *Neurosurg Focus* 2004;16(2):E1.
- Standring S, Development of the nervous system in Gray's anatomy. 40th ed. Livingstone, Elsevier 2008; Pp: 361-94.
- Tonni G, Grisolia G. Ultrasound diagnosis of central nervous system anomalies (bifid choroid plexus, ventriculomegaly, Dandy-Walker malformation) associated with multicystic dysplastic kidney disease in a trisomy 9 fetus: Case report with literature review. J Clin Ultrasound 2013;41(7):441-