The patient was prepared for emergency repair of the aneurysm. At the surgery a leaked and contained aneurysm of the right common iliac artery was found. The neck of the aneurysm was extending up to aortic bifurcation. The abdominal aorta and both common femoral arteries were dissected. Vascular clamps were applied to occlude the infrarenal aorta, right common iliac artery distal to aneurysm and left common iliac artery. The aneurysm was opened and thrombus removed. Reconstruction was performed by aorto-bifemoral synthetic graft. Patient had an uneventful recovery.

Discussion

Aneurysms of the iliac arteries are rare. They may present with abdominal and back pain, distal ischaemia or as an emergency due to rupture. Pain has to be carefully evaluated as it may be due to another pathology. Symptomatic aneurysms need repair.

Asymptomatic aortic aneurysms need elective repair if the diameter is larger than 5.5cm or rate of expansion is greater than 0.5cm in six months (due to high risk of rupture). However, in elective operations fitness of the patient and the life expectancy also need consideration [1, 2].

The patient under discussion had pain and a suspected aneurysmal leak on imaging. He had hypertension which was well controlled medically. He was otherwise well.

He was subjected to open repair, a major procedure involving aortic clamping which has a significant morbidity and mortality rate. These risks are minimal in endovascular repair in which a stent graft is deployed into the aneurysmal segment through the femoral artery. Endovascular repair does not involve general anaesthesia, laparotomy and aortic clamping.

References


A rare case of multiple hereditary exostoses with spinal cord compression

Susima Pallemulla¹, Sujeewa Amarasena², Saman Wadanamby³

¹Registrar in Paediatrics, ²Consultant Neurosurgeon, Teaching Hospital, Karapitiya. ³Professor of Paediatrics, Faculty of Medicine, University of Ruhuna, Galle

A nine year-old previously well child presented with weakness of both lower limbs of 9 months duration. He developed numbness and weakness of the right lower limb 9 months back. Then the child was admitted to General Hospital, Matara and was investigated. The child went home prematurely before the completion of investigations and defaulted follow-up due to multiple social problems. Six weeks later he developed weakness of the left lower limb as well. Weakness of limbs progressed slowly over the next few months and he became bed-bound with paraplegia. He had urinary and faecal incontinence. As a result of his illness he was unable to attend the school and stopped schooling completely. There was a family history of multiple hereditary exostoses (HME) in the father, younger sister, and a paternal aunt. The family was affected by Tsunami in 2004 and shifted residence. The father was jailed for...
suspected murder. The mother was unable to cope with the illness of the child, the father's imprisonment and the post tsunami problems like housing and feeding the other children. Therefore, she did not seek medical care for the child.

The child was having grade 0 power in both lower limbs with exaggerated reflexes, clonus and bilateral extensor plantar responses. There was a mild weakness of the left hand grip. The sensory level was at T6 level. Rest of the neurological examination was normal.

General examination revealed multiple exostoses of the body, mainly on femur, tibia and humerus. MRI scan of the cervical and thoracic spine was done. A bony growth compressing the spinal cord at T3 level almost bisecting the cord was found (Figure 1). Neurosurgery was performed with a laminectomy and excision of the bony growth resulting in decompression of the cord. Within 1 week of the surgery the child was able to stand with support despite bilateral tendo-Achilles contractures. Even some bladder and bowel sensation has returned. He was trained in clean intermittent catheterization and a rehabilitation programme was arranged with physiotherapy and a wheelchair. Due to the poor social support setup, a nongovernmental organization (NGO) took over the responsibility of providing a wheelchair and physiotherapy.

Discussion

HME is an autosomal dominant disorder in which multiple osteochondromas arise from the surface of bones. It is the commonest bone tumor and it can affect any bone preformed in cartilage. Generally it occurs in the periphery of the most rapidly growing ends of long bones [1]. Patients with HME may have 2-100 osteochondromas. Most are solitary osteochondromas discovered incidentally in children and adolescents. Exostoses usually appear in the childhood between 2-10 years of age. Exostoses usually grow until the growth plates are open and their growth ceases with the skeletal maturity. Rarely spontaneous resolution occurs during the childhood [2].

HME is associated with complications like short stature, limb length inequality, limb deformities and scoliosis. They may undergo malignant transformation (1-20%). Tendons, nerves, blood vessels may get trapped around the osteochondromas leading to symptoms. Visceral injuries and luminal obstruction may occur with inwardly growing osteochondromas.

Spinal cord compression is an extremely rare complication of HME. Few cases had been reported and they have presented in the second decade of life and mainly in the thoracic region. MRI or CT is the investigation of choice for an early diagnosis. Early surgical decompression with laminectomy results in excellent functional neurological recovery [3, 4]. But with the delay in presentation and surgery, residual neurological impairment can occur [5].

Other aspects to highlight in this case are lack of a good social service in our country which can attend to problems of children like this resulting in compromised health status. This lack generally affects the poorer segments of the society. We depend on well-wishers and NGOs for their goodwill to provide proper care for such children instead of an organized social security system from the government.
Case Reports

References


