DESCRIPTION

Lymphoedema is an abnormal collection of interstitial lymph fluid due to either congenital maldevelopment of the lymphatics or secondary obstruction. Primary penile lymphoedema is a rare occurrence. Its incidence account for approximately 1:60,000 live births. Generally it involves the lower limbs, but rarely the genitalia. We report a case of primary isolated penile lymphoedema in an 8-year-old boy. The child had large penis, which was gradually progressive in size since last 3 years. There was no history of trauma or infection or any other cause of secondary lymphoedema. The child had no significant finding on general and systemic examination. Genital’s examination revealed large sized penis (12.5×6.5 cm), with no signs of inflammation, overlying temperature was subnormal (figure 1). Penis was non-tender on palpation. Scrotum was essentially normal. There were no palpable inguinal lymph nodes. All routine (haematological, biochemical and urinary) investigations were within normal limits, including negative serological test for filariasis. Ultrasonography of penis showed increase in the thickness of the dermis and subcutaneous layer with structural changes like hyperechogenic dermis and hypeoechogenic subcutaneous layer. Doppler of penis excluded any vascular (arterial/venous) malformation. Although MRI and lymphoscintigraphy are important modalities to further affirm the diagnosis but were not done as patient could not afford these expensive modalities. The diagnosis of primary lymphoedema of penis was made based on typical history, presentation and physical examination, aided by radiological investigations. Surgery was planned. Vertical incision was made over preputial skin reaching up to the corona extending it circumferentially, keeping a 5 mm fringe. Incision was deepened up to the bucks fascia and penis was degloved up to the base (figure 2). The whole of involved oedematous tissue including skin (shaft and prepuce) was resected. The skin around the penis base was mobilised and primary approximation was done (figure 3). The patient was catheterised. The patient recovered well. He was discharged on third day after removing catheter. On follow-up 4 months after surgery, the cosmetic result was excellent with full patient satisfaction. Histopathological examination showed non-specific chronic inflammation with areas of epidermal thickening and dermal fibrosis. Focal perivascular lymphocytic aggregates were seen. On systematic review of literature surgical resection of involved tissue and covering with split skin grafting has been described for similar conditions. We adopted the technique of avoiding skin graft in the present case which gave us good cosmetic results without any complications such as graft rejection, infection or contracture with benefits of less morbidity, less hospital stay and cost eventually.
Learning points

- The rare occurrence of genital primary lymphoedema especially isolated penile lymphoedema in children lead us to report this case.
- Treating such rare cases should be individualised besides the prescribed traditional methods.

Competing interests

None.

Patient consent

Obtained.

REFERENCES


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