Dear Editor,

Although hernia is the most common abnormality of the inguinal region\(^1\), other pathological entities may also be found in the area such as tumors of various elements of spermatic cord, lipomas, dermoid and epidermoid cysts and a few others\(^2\)-\(^4\). Some of these may mimic an irreducible inguinal hernia and pose an initial diagnostic dilemma. We describe here a rare case of a large lymphangioma of the inguinal region which presented like an irreducible inguinal hernia.

Case Presentation

A 70-year-old Chinese man presented with long standing history of a slowly progressive swelling in the left inguinal region. The physical examination revealed a large non-tender, cystic swelling which was irreducible and did not have any impulse on coughing. The ultrasound examination revealed a large unilocular cystic mass. Decision was made to perform an inguinal exploration. Surgery was performed through the left inguinal incision. A large cystic mass measuring 15cm x 10cm x 5cm was found in the sub-cutaneous plane (Fig. 1), superficial to the external oblique aponeurosis. The mass was carefully enucleated. The inguinal canal was then opened where an indirect hernia was present which was repaired using Lichtenstein tension free technique. On gross examination, the cystic mass was well defined with a smooth surface and was filled with clear fluid. On microscopic examination, sections showed luminal surface lined by CD31 positive endothelial cells suggestive of lymphangioma. The patient was discharged on the first post-operative day and the post-operative course was largely uneventful.

Discussion

Cystic swellings during inguinal dissection are rare to find. Most of these cysts are mesothelial in origin\(^5\). Some of these cysts may grow exceptionally large and may mimic an irreducible inguinal hernia. Lymphangiomas are malformations of the lymphatic system that occur as a result of the failure of lymph to drain from sequestered lymphatic vessels with consequent dilatation of the ducts and formation of a cystic mass. Majority of these lesions are congenital but they may also occur secondary to trauma, infection, inflammation or degeneration. There are 3 distinct types of lymphangioma. First ones are lymphangioma circumscriptums, which are microcystic lymphatic malformations resembling a cluster of small blisters. Second are cavernous lymphangiomas which are bulging masses occurring deep under the skin. The last ones are the cystic hygromas which usually have a softer consistency and typically develop in fetuses. They usually appear on the neck (75%), armpit or groin areas. They often look like swollen bulges underneath the skin. Draining lymphangiomas of fluid provides only temporary relief, so they are removed surgically. Ultrasonography is very accurate at identifying the cystic nature of the swelling and marking the extent of the lesion. The final diagnosis is usually made only after the histopathologic examination. In conclusion, we have presented a rare case of a large lymphangioma presenting at an unusual site and mimicking an irreducible inguinal hernia. Although rare, this lesion must always be kept as a differential diagnosis while dealing with cystic inguinal masses. Ultrasonography is helpful in delineating the cystic nature and extent of the lesion whereas surgery remains the mainstay of treatment.
REFERENCES


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