Aphallia is a very uncommon congenital condition with an incidence of about one in 30 million births. It is characterized by the absence of a penis which is due to the failure of the genital tubercle to form or develop fully. In this case report, we present a 3-month-old male infant with aphallia from a remote part of Eritrea who was subsequently lost to follow-up and discuss the challenges that are faced when dealing with such a complex congenital anomaly in a developing country. This report highlights the importance of having accessible healthcare services for early detection, appropriate management, and counseling of the affected individual and their families. Finally, healthcare providers should work together in the future to improve the quality of life of affected individuals and their families as the management of aphallia requires multidisciplinary collaboration and comprehensive care to reduce the potential long-term psychological and social consequences of the condition.

Keywords: aphallia, congenital absence of penis, penile agenesis, developing countries, Eritrea
Physical examination showed a well-developed infant with a body weight of 6kg. There was a complete absence of the penis with a well-formed scrotum and bilaterally descended testes. The anal opening was located normally, but the urethral opening was not visible anywhere in the perineum (Figure 1). The rest of the general and systemic physical examination was normal.

At the time of evaluation ultrasonography of the abdomen showed normal-sized kidneys with no hydronephrosis. The renal function tests were within normal limits for his age with a creatinine of 0.3mg/dl and BUN of 8mg/dl. The serum electrolytes were; K+: 5.5mEq/l, Na+: 138mEq/l, Ca2+: 9.2 mg/dl, and Cl: 9.2mEq/l. The mother was counseled about the condition and referred to a tertiary hospital, but she took the child home without visiting the referral hospital. We, the authors tried our best to find the child by making multiple telephone calls with the administrators of the village and the local clinic but the child could not be found. We even send a healthcare professional to the village as part of an EPI outreach program but the child could not be found.

Discussion
Aphallia is a very rare congenital anomaly that is characterized by the absence of a penis. External genital differentiation into the male sex starts in the 7th week of gestation and is completed by 16–17 weeks. The pathogenesis of aphallia is unknown but it’s thought to be due to failure of the genital tubercle to form or to develop fully during this time.

The diagnosis of aphallia is usually made in the absence of the phallus, male karyotype, and normally developed scrotum with normal testicles. The differential diagnosis of aphallia include micropenis, rudimentary penis, penile amputation, concealed penis, and male pseudohermaphroditism. In our case, the karyotyping could not be performed because we did not have the laboratory tests and the patient became lost to follow-up.

The management of aphallia involves a multidisciplinary approach that includes counseling, hormonal therapy, and surgical interventions such as phalloplasty or gender reassignment surgery. In the past, female sex assignments were
common due to their ease and cosmetic benefits, but in recent years, there has been a shift in gender reconstruction for aphallia. Now expert’s decision in choosing gender reconstruction must go through discussions with the patient and his/ her family while still taking into account the socio-sexual future and the patient’s fertility. In this case, the parents decided to rear the child as a boy.

The management of congenital anomalies such as aphallia can be especially difficult in low-resource settings because of limited access to health care services, diagnostic tests, and surgical intervention. In addition, the healthcare facilities are usually located far from those affected communities which makes it more difficult for them considering their financial problems. In our case, the infant’s parents lived in a remote area and were unable to bring him to the hospital until he became 03 months old and was subsequently lost to follow-up. This is an example of a missed opportunity to learn more about an anomaly with a very low incidence. Some possible solutions are having high-quality counseling, proper follow-up, and the establishment of international specialized referral centers where patients with rare congenital anomalies could be managed in collaboration with the local hospitals. In addition, as shown in previous studies the parents are likely to hide the child at home or become lost to follow-up as the parents and family consider this a stigma and usually cannot decide on the treatment options offered to the child.

Finally, this case report underscores the importance of working together in a Multidisciplinary fashion to address rare congenital malformations like aphallia and improve the outcomes for affected individuals globally.

**Conclusion**

Aphallia is a rare congenital anomaly that requires a multidisciplinary management approach for optimal outcomes. In addition to the physical abnormality, it can have significant psychological consequences for the affected individuals. Therefore, active cooperation between doctors and parents is paramount to decrease the negative impact of this malformation. In low-resource settings, there are many challenges to managing such patients, including limited access to healthcare services, financial limitations, and social stigma. In addition, diagnostic modalities like karyotyping and advanced imaging studies are difficult to perform. Despite these challenges, healthcare workers must provide the needed counseling, referral, and management choices for people affected by aphallia to improve their quality of life.

**Consent**

A signed written informed consent was obtained from the mother at the time of the examination for the case details and images to be published. The institutional research ethics review committee of the Ministry of Health of Eritrea, has informed that the approval for this case report is not required.

**Disclosure**

The authors report no conflicts of interest in this.

**References**


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