Isolated Congenital Megacystitis (ICM): A rare case report

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Abstract

Isolated congenital Megacystitis represents a rare variant of fet al Megacystitis without other associated anomalies. The aetiology is not clear. Various methods of management have been described in literature. We report a case of isolated congenital Megacystitis. Considerations for the evaluation and management of this rare entity are discussed.

Keywords: Megacystitis, Congenital, Hydronephrosis, Case report

Introduction

Foetal Megacystitis, incidence being 1:1 500 occurring in the first trimester may already be a sign of congenital malformation. Often, urethral valves are causally responsible in male foetuses far more frequently than urethral atresia. Further the "prune-belly syndrome" needs to be distinguished. Far more difficult to classify prenatally is the rare MMIHS which, in contrast to the diagnosis of urethral valves, is associated with an unfavourable prognosis[3].

Isolated congenital Megacystitis (ICM) is an extremely rare condition of unclear etiology. Postulated pathologic mechanisms include a visceral myopathy[1] and a mild variant of Megacystitis-microcolon-intestinal hypoperistalsis syndrome (MMIHS).[2] Since the condition is rare the optimal strategy for management is not clear and less, with previous authors reporting reduction cystoplasty[3] and clean intermittent catheterization (CIC)[2,4] as two options. Here, we report a case of ICM that is terminated after routine anomaly scan.

Case Report

Primigravida with 20 weeks gestation came for regular Anomaly scan and had been diagnosed to be having isolated congenital megacystitis and patient has been explained about the risk and option for termination. She opted for termination and below are the pictures of ICM.
When Megacystitis is present and other associated conditions have been excluded, patients are classified as having ICM. This abnormality is an extremely rare condition that may actually be a constellation of several divergent etiologies. Previous reports have postulated various underlying mechanisms including spontaneous resolution of a congenital urethral stricture,\textsuperscript{12} visceral myopathy\textsuperscript{(1)} and a variant of MMHIS.\textsuperscript{(2)} In some cases no clear etiology can be identified, as was the situation with our patient.

Determining the prognosis and management recommendations for patients with isolated Megacystitis is challenging. Previous reports have discussed the use of reduction cystoplasty\textsuperscript{(3)} and CIC\textsuperscript{(2,4)} for the management of this condition; both strategies resulted in favourable clinical outcomes. Our report highlights a case where conservative management of Megacystitis with serial imaging and prophylactic antibiotics was a successful alternative strategy.

**Conclusion**

ICM is a rare condition that may represent a collection of several divergent etiologies. In most reported cases, this condition does not resolve spontaneously. Prognosis appears to be favourable regardless of management strategy.

**References**


