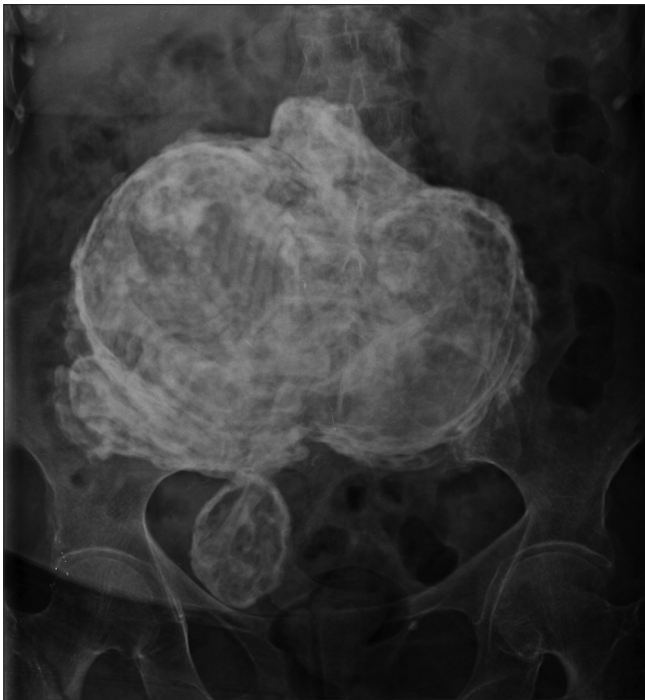


# Lithopedion: An unusual cause of an abdominal calcified mass

Dear Sir,

Lithopedion is a very rare condition and refers to an ectopic pregnancy that evolves to fetal death and calcification.<sup>[1]</sup> Most patients are asymptomatic and diagnosis is usually made incidentally on imaging studies.

We report a case of 80-year-old female who was presented with the complaint of right hip pain after a ground level fall. The pelvis radiograph demonstrated a right basicervical femoral neck fracture and incidentally showed a large abdominopelvic calcified mass. The abdominal radiograph AP view revealed a large irregular calcified mass with heterogeneous density and bony structures [Figure 1]. Abdominal and pelvic computed tomography (CT) revealed a mummified fetus, depicting in great detail the fetal anatomy [Figure 2]. The calcified mass was in close contact with abdominal organs, showing adhesences to the bladder wall. It was  $19 \times 17 \times 10$  cm in size and femur length was 6.7 cm, with an estimated gestational age of 34–35 weeks.



**Figure 1:** Abdominal radiograph AP view depicts a large calcified heterogeneous mass in the lower abdominal region, corresponding to a lithopedion, whose maximum length was 19 cm. A right basicervical femoral fracture is also visible

Owing to the advanced age of the patient and because she was asymptomatic, it was decided that the calcified fetus should be left in place and no further surgery would be recommended. Subsequently, a total right hip arthroplasty was performed.

Lithopedion, from the Greek words lithos (stone) and paedion (child), is the term used to describe an abdominal ectopic pregnancy in which the fetus dies but cannot be reabsorbed by the mother's body. The dead fetus is retained in the abdominal cavity, forming a calcium shell around it. It is a very infrequent condition and occurs in only 0.0054% of all gestations.<sup>[2]</sup> This rare condition was first described in the 10<sup>th</sup> century<sup>[3]</sup> and there are only about 330 reported cases in medical literature.<sup>[4]</sup>

Lithopedion has been described in women ranging in age from 23 to 100 years old, with two thirds of them being over 40 years old. The period of fetus retention was from 4 to 60 years.<sup>[1]</sup> In this case, the exact retention period is unknown, but it is reasonable to think that it could be at least 40 years.

Most cases remain asymptomatic and represent incidental findings on imaging studies, surgery or necropsy.<sup>[3]</sup> An abdominal radiograph is useful to suggest or confirm diagnosis. Computed tomography and magnetic resonance



**Figure 2:** CT MIP reconstructions reveal the fetal anatomy in great detail, showing the calcified shell and fetus' spine

imaging are able to reach a conclusive diagnosis<sup>[5]</sup> and allow further characterization of the mass, help the diagnosis of adherence, define the involvement of adjacent structures and estimate the fetal gestational age by measuring the femoral length.

In this clinical case, computed tomography allowed us to confirm the diagnosis, providing a clear visualization of the fetal anatomy, size and estimated gestational age. It also showed adherences between the calcified fetus and bladder wall.

Treatment of these patients should be individualized, considering patient age, comorbidities, symptoms, and imaging findings like size, location, and possible adherences to adjacent structures. It is necessary to evaluate the risk/benefit relationship of an operative approach in these cases. In this particular case, it was considered that the risk of excision overcame its benefits, so the lithopedion was left in place.

Lithopedion is really rare nowadays, due to medical and pre-natal care becoming more accessible to the population, with the possibility of early diagnosis and treatment of the pathology.<sup>[5]</sup> This case reflects the precarious medical attention in vulnerable populations.

#### Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Nil.

#### Conflicts of interest

There are no conflicts of interest.

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## Hyperglycemia-induced seizures and blindness

Sir,

We read with great interest the article titled "Hyperglycemia-induced seizures-Understanding the clinico-radiological association" by Hiremath *et al.* in the October-December 2019 issue of *Indian Journal of Radiology and Imaging*.<sup>[1]</sup> The article is highly informative and describes the mechanism and imaging manifestations

of hyperglycemia-induced seizures. In this article, we describe a similar recent case with imaging on admission and follow-up images.

A 28-year-old woman, known case of exogenous Cushing's disease, presented to the emergency services with three episodes of generalized tonic-clonic seizures, followed by