

IMAGES IN EMERGENCY MEDICINE

Obstetrics and Gynecology

A woman with hip pain and teeth in the pelvis

Adnan Ather Malik BMBS, BMedSci¹ | Lydia Salem Yosief BSc² | Dana Mahdi BSc² |
Umar Butt BMBS, BMedSci³ | Andrzej Luckiewicz MBBS, BSc¹ | Amman Malik⁴ |
Aaron Cassidy MBChB¹ | Amina Malik MBChB⁵ | Nardeen Kader MBChB, MRCS⁶ |
Fraser Merchant MBBS, Bsc⁷ | M. Adam Ali MBBS, BSc⁸

¹ Department of Surgery, George Eliot Hospital NHS Trust, Nuneaton, UK

² King's College London Medical School, London, UK

³ Glenfield Hospital, Leicester, UK

⁴ School of Medicine, University of Birmingham, Birmingham, UK

⁵ Department of Obstetrics and Gynaecology, Sandwell and West Birmingham Hospitals NHS trust, Nuneaton, UK

⁶ Department of Orthopaedics, Kingston Hospital NHS Foundation Trust, Nuneaton, UK

⁷ Gloucestershire Hospitals NHS Foundation Trust, Nuneaton, UK

⁸ University College London, London, UK

Correspondence

Lydia Salem Yosief, BSc, King's College London Medical School, London, WC2R 2LS UK.

Email: lydia.yosief@kcl.ac.uk

Signed consent obtained from patient.

1 | PRESENTATION

A 64-year-old woman with known osteoarthritis of the hips presented with a history of recently increasing left-sided hip pain. Pelvic plain radiographs were undertaken to assess for the possibility of fracture. These revealed degenerative changes at the hip joints and two dentiform calcifications in the pelvis (Figure 1, arrows), raising concern for a dermoid tumor. Computed tomography with contrast was subsequently undertaken, and demonstrated an ovarian cystic lesion measuring 12 cm maximally, with two teeth in the lesion periphery (blue arrows), a fat-fluid level, and hair-ball (red arrow) centrally (Figures 2 and 3).

2 | DIAGNOSIS

2.1 | Cystic ovarian teratoma

Laparoscopic bilateral salpingo-oophorectomy was undertaken, and histologic analysis confirmed a diagnosis of mature cystic

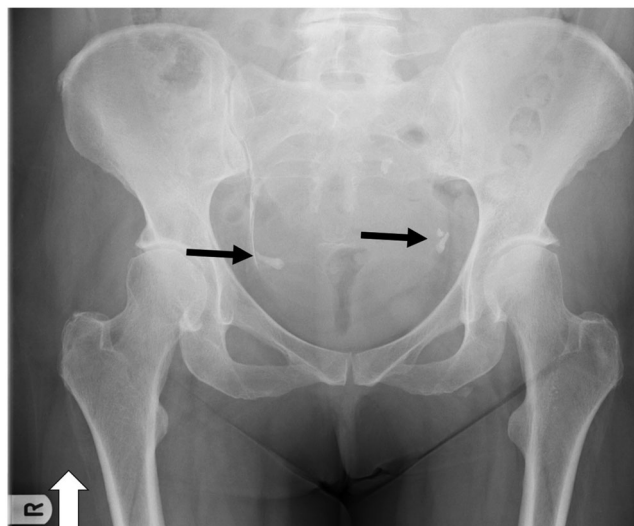


FIGURE 1 Plain radiograph of the pelvis showing degenerative changes at the hip joints and two dentiform calcifications in the pelvis, arrows

This is an open access article under the terms of the [Creative Commons Attribution-NonCommercial-NoDerivs](https://creativecommons.org/licenses/by-nc-nd/4.0/) License, which permits use and distribution in any medium, provided the original work is properly cited, the use is non-commercial and no modifications or adaptations are made.

© 2021 The Authors. *JACEP Open* published by Wiley Periodicals LLC on behalf of American College of Emergency Physicians

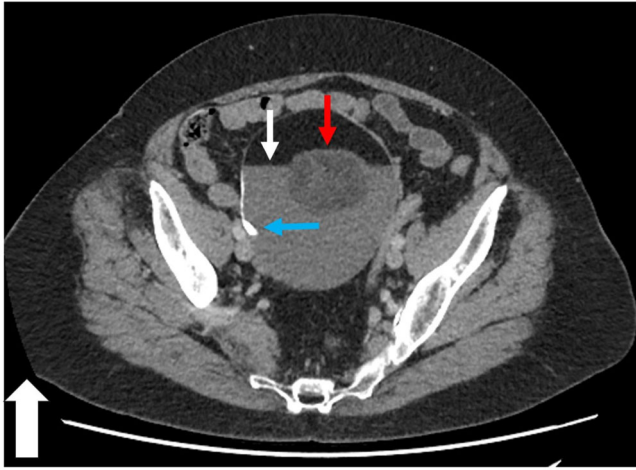


FIGURE 2 Computed tomography of the pelvis, axial view. There is a 12-cm ovarian cystic lesion, with two teeth in the lesion periphery (blue arrows), a fat-fluid level, and hair-ball (red arrow) centrally

teratoma containing hair, teeth, sebaceous material, and respiratory epithelium.

Mature cystic teratomas are encapsulated tumors with well-differentiated mature tissue or organ components from at least two of the three germ-cell layers and are the most common ovarian neoplasm in younger patients. Increasing size above 10 cm or “cauliflower” irregular borders are indications for surgical resection because of increasing risk of malignant transformation and to minimize the risk of complications.¹

The index case also demonstrates a striking manifestation of Hickam’s dictum and Saint’s triad, which present a counter view to Occam’s razor: in the index case, diagnostic parsimony would have led to a failure in uncovering the key pathology responsible for the patient’s symptoms.



FIGURE 3 Computed tomography of the pelvis, coronal view. There is a 12-cm ovarian cystic lesion, with two teeth in the lesion periphery (blue arrows), a fat-fluid level, and hair-ball (red arrow) centrally

REFERENCE

1. Patel MD, Feldstein VA, Lipson SD, Chen DC, Filly RA. Cystic teratomas of the ovary: diagnostic value of sonography. *AJR Am J Roentgenol.* 1998;171(4):1061-1065.

How to cite this article: Malik AA, Yosief LS, Mahdi D, et al. A woman with hip pain and teeth in the pelvis. *JACEP Open.* 2021;2:e12523. <https://doi.org/10.1002/emp2.12523>