



Perinatal Ultrasound Case Presentation

# One in a million but not one of a kind.

Presenter: Christine Penfield, MD, MPH

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Thomas J. Garite, MD. Director of Research and Education, MEDNAX  
National Medical Group.

**Ultrasound images courtesy of:**

Kathleen Berkowitz, MD, Magella Medical Group. Long Beach, CA. (USA).

# Christina Penfield, MD, MPH



## Resume:

Christina A. Penfield, MD, MPH, received undergraduate degrees in both Chemical Biology (B.S.) and Spanish Literature (B.A.) from the University of California, Berkeley. She attended medical school at University of California, Irvine and completed residency in OB/Gyn at Cedars-Sinai Medical Center in Los Angeles. She also returned to University of California, Berkeley to complete a Masters in Public Health (M.P.H.).

Dr. Penfield completed her fellowship in Maternal Fetal Medicine at University of California, Irvine. Her research interests include perinatal epidemiology, racial/ethnic disparities, and clinical obstetrics.

# Learning Objectives

Following the completion of this educational activity:



- The learner should be able to **evaluate** the differential for this finding noted on antenatal ultrasound.
- The learner should be able to **specify** how this diagnosis is determined.
- The learner should be able to **describe** the natural history and antenatal management of pregnancies with this condition.

# Part 1



A 34-year-old gravida 2 para 0 female at 20 weeks gestation was referred to our ultrasound center for evaluation after a prior ultrasound showed a possible sacrococcygeal teratoma. She had an unremarkable ultrasound at 13 weeks with normal nuchal translucency measurement. Genetic screening with cell free DNA and maternal serum AFP had normal results. On our evaluation, the sacral mass was noted to have a long bone, a foot structure, and a bladder-like structure within it.

# Images 1 – Sagittal View of Sacral Mass



**Ultrasound images  
courtesy of:**

Kathleen Berkowitz, MD  
Magella Medical Group  
Long Beach, CA  
(USA)

# Image 2 – Mid Sagittal View of Sacral Mass



**Ultrasound images  
courtesy of:**

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# Image 3 – View of Sacral Mass with Long Bone



Ultrasound images  
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## Image 3 – Closer View with Long Bone and Foot Structure



**Ultrasound images  
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# Take a moment to reflect on the case and images presented.



1. When faced with this case, consider what your next steps might be. What might your diagnosis be?
1. To read about diagnosis/management/review of literature, proceed to Part II by clicking on the “View PDF” link for Part II.
1. Following review of Part II, you will have an opportunity to access a list of references.
1. To earn credit, pass the post-test (70% correct) and complete the evaluation.