

Bronchial Foreign Body

Joseph Junewick, MD FACR

05/09/2010

History

8 year old male with hemoptysis.

Diagnosis

Bronchial Foreign Body

Additional Clinical

Needle retrieved on bronchoscopy.

Discussion

Aspirated foreign bodies are common, most often encountered in preschool children. Foreign bodies are usually related to food (peanuts and candy) but occasionally broken teeth or glass in the trauma setting, toy pieces, jewelry, and other accidentally inhaled items are seen.

Classic symptoms include coughing, choking, cyanosis, and sudden onset of wheezing. The lower lobes are most commonly involved; the right side is twice as commonly involved compared to the left. The foreign body is radiographically visible in only about 10% of cases.

Acutely, endobronchial foreign bodies can lead to varying degrees of obstruction and ventilation-perfusion mismatch. Long standing foreign body can result in hemoptysis (which can be massive and life threatening), chronic atelectasis, recurrent pneumonia, bronchiectasis and pseudomass.

Findings

CR-Long thin metallic foreign body in lingula with plate-like atelectasis.

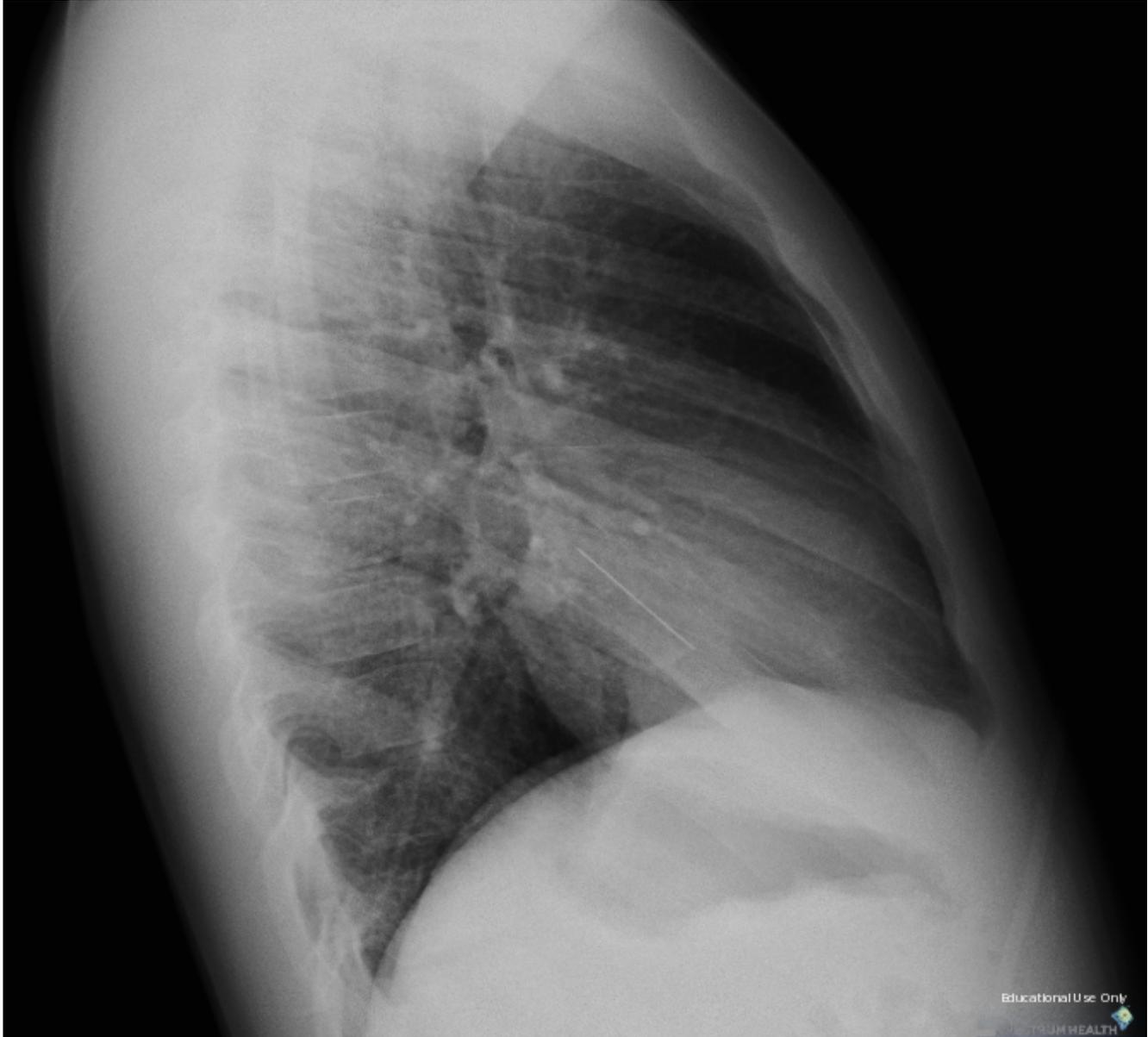
CT-Sagittal reformatted image confirms foreign body.

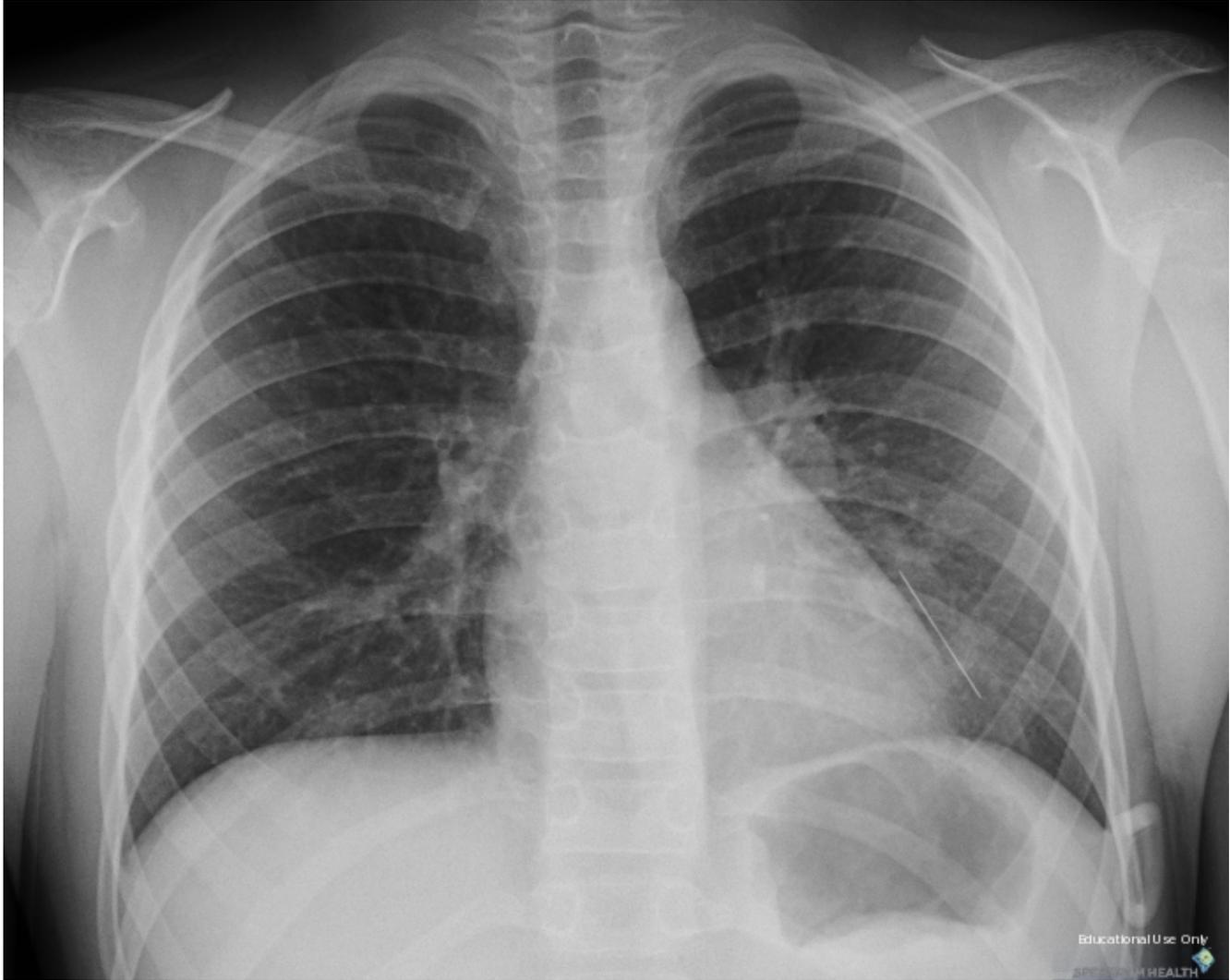
Reference

Kosucu P, et al. Low-dose MDCT and virtual bronchoscopy in pediatric patients with foreign body. AJR (2004); 183:1771-1777.



Educational Use Only
SPECTRUM HEALTH





Sponsored By



Disclaimer

This teaching site is partially funded by an educational grant from GE Healthcare and Advanced Radiology Services, PC. The material on this site is independently controlled by Advanced Radiology Services, PC, and GE Healthcare and Spectrum Health have no influence over the content of this site
Content Download Agreement

The cases and images on this website are owned by Spectrum Health. Permission is granted (for nonprofit educational purposes) to download and print materials to distribute for the purpose of facilitating the education of health professionals. The authors retain all rights to the material and users are requested to acknowledge the source of the material.

Site Disclaimer

This site is developed to reach healthcare professionals and medical students. Nothing this site should be considered medical advice.

Only your own doctor can help you make decisions about your medical care. If you have a specific medical question or are seeking medical care, please contact your physician.

The information in this website is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific medical condition.

The viewpoints expressed in these cases are those of the authors. They do not represent an endorsement. In no event will Advanced Radiology Associates, PC, Spectrum Health Hospitals (Helen DeVos Children's Hospital) or GE Healthcare be liable for any decision made or action taken in reliance upon the information provided through this website.