Title: CT-Guided Localization and Wire Looping of Lung Nodules

Date: July 24, 2007

Research question:
What is the harm associated with CT-guided localization and wire looping of lung nodules in preparation for surgery?

Methods:
A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 2, 2007), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international HTA agencies, and a focused Internet search. Results include articles published between 2002 and the present, and are limited to English language publications only. Internet links are provided, where available.

Results:

Health technology assessments
None found

Systematic reviews
None found

Meta-Analyses
None found

Randomized Controlled Trials
None found

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Clinical Studies

Case Series


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Case Studies

   
   The localization of pulmonary nodules by the hook wire technique has allowed accurate resection of small and nonsuperficial pulmonary nodules by video-assisted thoracoscopic surgery. Hook wire localization has been shown efficacious and safe with principal complications limited to pneumothorax, wire dislocation, and localized intrapulmonary hemorrhage. We report a case of massive gas embolism complicating this procedure. The probable causative mechanisms and possible methods for avoidance are discussed

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Appendix – Further information