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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Value of virtual bronchoscopic navigation and transbronchial ultrasound-guided sheath-guided exploration in the diagnosis of peripheral lung cancer

Liu Y *et al.* VBN and EBUS-GS about lung cancer

Yong Liu, Feng Wang, Qun-Cheng Zhang, Zhao-Hui Tong

Abstract

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Virtual bronchoscopic navigation (VBN) is a method in which the bronchoscope is guided to a **peripheral lung** lesion under direct observation using **virtual bronchoscopic** images. **VBN** can be used for computed tomography (CT)-guided ultrathin bronchoscopy, endobronchial ultrasound using a guide sheath (**EBUS-GS**) and conventional bronchoscopy with ...

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Virtual bronchoscopic navigation (VBN) entails the provision of a **virtual** display of the bronchial routes that lead to small **peripheral** pulmonary lesions (PPL). It has been predicted that a combination of computed tomography (CT)-guided **transbronchial** biopsy (CT-TBB) with **VBN** might improve the diagnostic yield for small PPL.

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<https://www.ncbi.nlm.nih.gov/pubmed/29955020>

Mar 27, 2018. **Virtual bronchoscopic navigation (VBN)** can lead bronchoscopes to the target



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Jul 11, 2011 · Introduction. **Lung cancer** is the leading cause of **cancer** death in Europe, the USA and Japan. 1–3 Although imaging modalities including CT, MRI and positron emission tomography have been applied, pathological findings remain the benchmark for a **diagnosis of lung cancer**. The increased frequency of high quality CT application has allowed the identification of much smaller and far more ...

Cited by: 155

Author: Takashi Ishida, Fumihiko Asano, Koichi Y...

Publish Year: 2011

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Most patients with **lung cancer** have developed in the middle and advanced stage, with the 5-year survival rate only 15.6%. Meanwhile, the 5-year survival rate of early **lung cancer** patients can be reached as high as 80%, therefore, early **diagnosis of lung cancer** is particularly important.

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Author: Chunhua Xu, Qi Yuan, Yuchao Wang, We...

Publish Year: 2019

Virtual bronchoscopic navigation: advantages and ...

https://erj.ersjournals.com/content/48/suppl_60/PA4678 ▾

Sep 01, 2016 · Background: Several novel methods have been proposed to improve the diagnostic yield of **transbronchial biopsy** for **peripheral pulmonary lesions (PPL)**. LungPoint® **virtual bronchoscopic navigation (VBN)** uses **virtual 3-dimensional reconstruction** of the bronchial tree to guide a bronchoscope visually to the lesion. Objective: To analyse the advantages and limitations of VBN for the **diagnosis** ...

Author: Jane Winantea, Stephan Eisenmann, ... Publish Year: 2016

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Author: Akane Kato, Masanori Yasuo, Yayoi Tokor...

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Jan 01, 2016 · To evaluate the diagnostic utility of endobronchial ultrasound combined with **virtual bronchoscopic navigation** guided **transbronchial lung** biopsy for solitary pulmonary nodules. A total of 105 patients with suspected **peripheral** pulmonary lesions who underwent **transbronchial lung** biopsy in the First Affiliated Hospital of Guangzhou Medical University between January and December 2013 ...

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Author: Chunli Tang, Weizhan Luo, Changhao Zh...

Publish Year: 2016

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