

## **Detection and evaluation of lung cancer by 18-FDG-PET using Shimadzu Headtome IV, especially in cases those were difficult to make a differential diagnosis between benign and malignancy**

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### **Abstract**

We analyzed 8cases with chest abnormal shadow, in those it was difficult to make a differential diagnosis between benign and malignancy. 18-FDG-PET using Shimadzu Headtome IV were analysed. Four of 6 malignant cases showed 18-FDG accumulation, however 1 case of adenocarcinoma and 1case of mucoepidermoid carcinoma showed no abnormal accumulation of 18-FDG. One case of organized pneumonia showed strong accumulation of 18-FDG. 18-FDG-PET, using Shimadzu Headtome IV, was regarded as a useful tool to detect and evaluate lung cancer, however, there may be false positive and false negative, we need to make a diagnosis comprehensively together with other information.