

문유리¹, 이양덕¹, 박상현¹, 조용수¹, 나동집¹, 조용선¹, 한민수¹, 최희정², 김도형³, 양승오⁴, 김경희⁵

A Case of Paragonimiasis that was Suspicious for a Lung Malignancy by PET/CT

You Ri Moon, M.D.¹, Yang Deok Lee, M.D.¹, Sang Hyun Park, M.D.¹, Yong Soo Cho, M.D.¹, Dong Jib Na, M.D.¹, Yong Seon Cho, M.D.¹, Min Soo Han, M.D.¹, Hee Jeong Choi, M.D.², Do Hyung Kim, M.D.³, Seoung Oh Yang, M.D.⁴, Kyung Hee Kim, M.D.⁵
 Departments of ¹Internal Medicine, ²Family Medicine, ³Thoracic Surgery, ⁴Radiology, ⁵Pathology, Eulji University School of Medicine, Daejeon, Korea

Positron emission tomography/computed tomography (PET/CT) is valuable for the diagnosis of malignancies. However, PET/CT is unable to discriminate exactly between inflammation and a neoplasm. We report a case of a 50-year-old man with pulmonary paragonimiasis that was suspicious for lung cancer, as detected by PET/CT. The use of PET/CT revealed multilobulated consolidation on the right lung and patchy consolidation on the left lung, with increased fluorodeoxyglucose (FDG) uptake. In addition, the left paraaortic lymph node (LN) and peripancreatic LN showed enlargement with increased FDG uptake. Lung cancer with multiple lymph node metastases was suspected from the increased standardized uptake values (SUV>4.5) determined by PET/CT. We performed wedge resection via video-assisted thoracic surgery (VATS) and found *Paragonimus westermani* eggs in the involved tissues. (*Tuberc Respir Dis* 2007;63:521-525)

Key Words: *Paragonimiasis*, PET/CT, Lung, VATS

서 론

¹⁸F-fluorodeoxyglucose (FDG) PET/CT (positron emission tomography/computed tomography)

증 례

환 자: 50

주 소:

현병력: 6

FDG 가 , 1~2

가 가가 PET/CT

PET/CT

10

6

4

과거력: 5 , 3

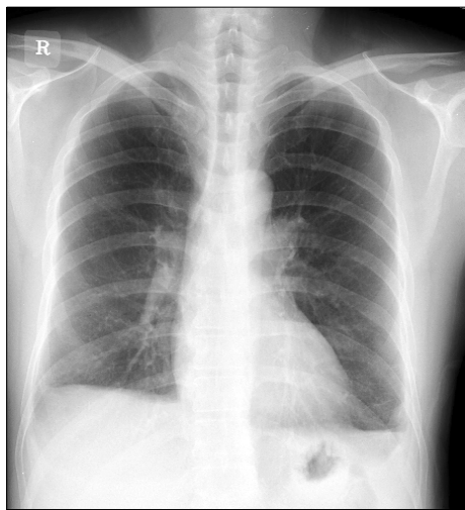
개인력: 8

진찰소견: 140/90 mmHg, 80 / ,

Address for correspondence: Yang Deok Lee, M.D., Ph.D.
 Department of Internal Medicine, Eulji University Hospital,
 1306, Dunsan-dong, Seo-gu, Daejeon 302-799, Korea
 Phone: 82-42-611-3154, Fax: 82-42-259-1111
 E-mail: lydmd@hanmail.net

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20 / , 36.6°C .
 검사실 소견: 10,170/mm³
 (12%, 1,220/mm³), 15.5 g/dl,
 269,000/mm³ .
 7.6 g/dl, 4.0 g/dl, AST/ALT 23/29 IU/L,
 0.5 mg/dl, 17 mg/dl,
 1.4 mg/dl, C-reactive protein(CRP) 0.36 mg/dl .
 CEA, αFP, CA19-9, PSA
 (12%) .
 (FVC) 3.33 L (82%), 1

Figure 1. Chest PA shows both costophrenic angle blunting.

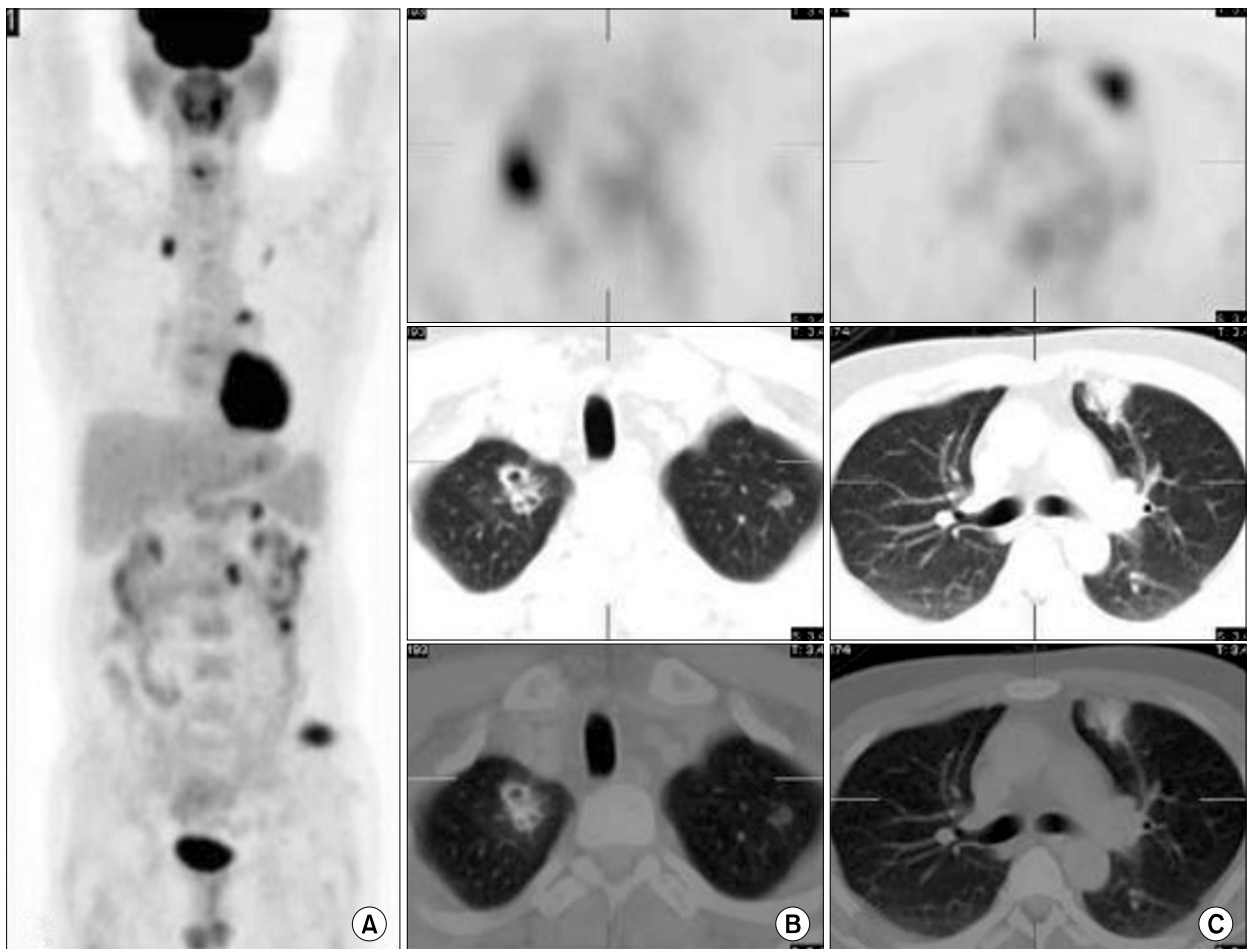


Figure 2. Coronal PET maximum intensity projection image (A) shows multiple increased FDG uptake at whole body. Transverse PET image (upper row), transverse CT lung window image (middle row) and transverse PET/CT image (lower row) show multilobulated consolidation, increased FDG uptake at both upper lobe (B), left upper lobe lingular division (C).

(FEV₁) 2.68 L (88%), FEV₁/FVC 80% 임상경과: PET/CT
 방사선 소견: X- 50 . 3
 (Figure 1). PET/CT
 20×12 mm (standardized
 uptake value, SUV) 5.4
 32×25 mm FDG 가
 (SUV: 4.64) (Figure 2). FDG (Figure 4). Enzyme-linked immunosorbent
 (SUV: 2.33) assay (ELISA)
 가(SUV: 4.64~5.01) *Paragonimus*
 가(SUV: 5.31) Praziquantel 25 mg/
 (lung-to-lung metastasis) 가 . 5
 가 (Figure 3). (3.2%, 230/mm³).

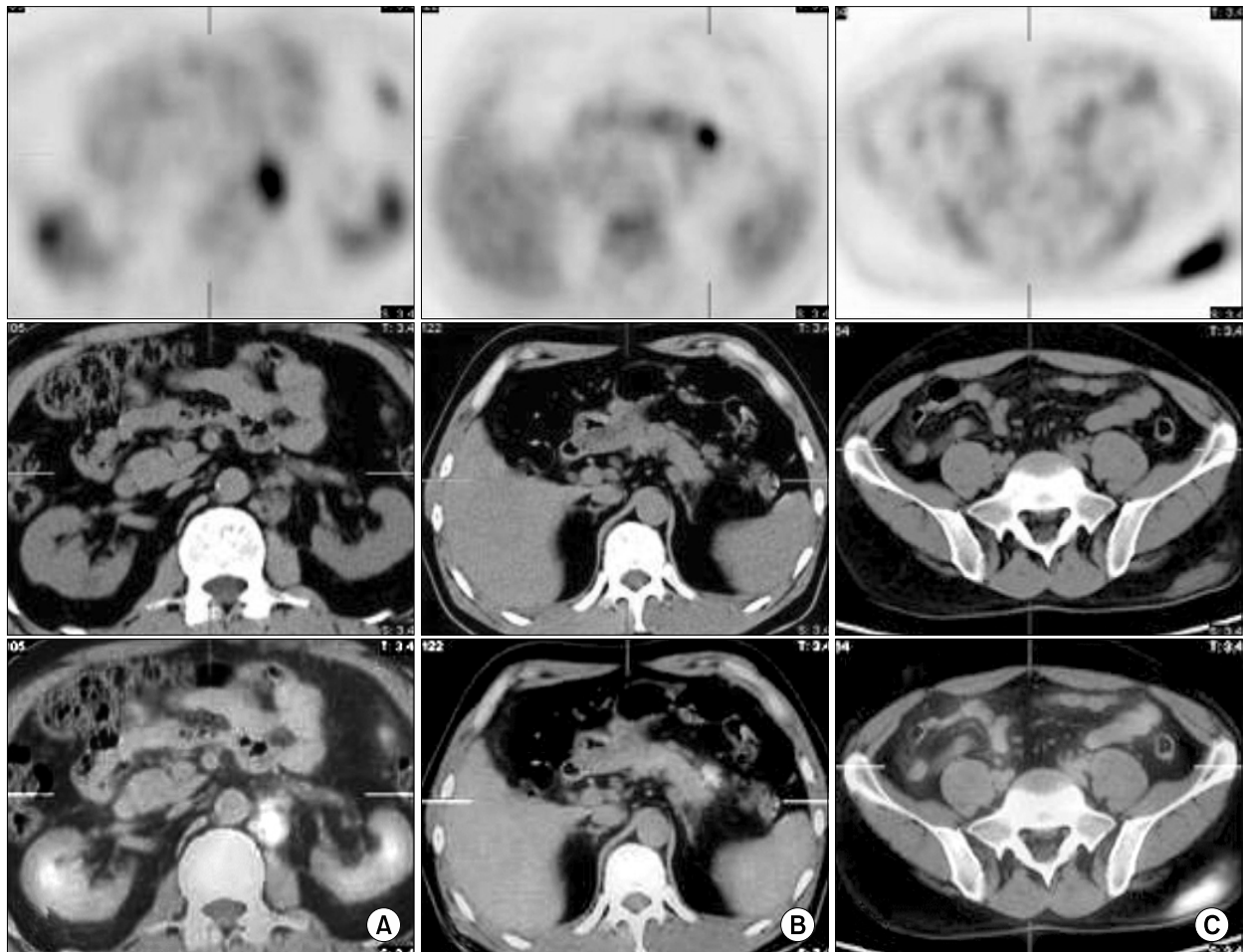


Figure 3. Transverse PET image (upper row), transverse CT image (middle row) and transverse PET/CT image (lower row) show left paraaortic lymph node (A), peripancreatic lymph node enlargement (B) with increased FDG uptake (SUV: 4.64~5.01) and fat infiltration with FDG uptake (SUV: 5.31) at left buttock area (C).

