

Pleuroperitoneal Communication Diagnosed with Tc-99m Peritoneal Scintigraphy in Peritoneal Dialysis Patients

Byung Su Kim, Jong Pil Seo, Joon Yeop Lee, Jeong Ho Lee

Division of Nephrology, Department of Internal Medicine, Dongguk University Medical Center

Pleural effusion secondary to pleuroperitoneal communication is an unusual complication of continuous ambulatory peritoneal dialysis, occurs in about 2% of cases. A pleural effusion due to peritoneal dialysate leakage can be suspected based on higher glucose and lower protein content compared with serum. Many modalities have been used to diagnose pleuroperitoneal communication: pleural fluid analysis, chest X-ray, Tc-99m scintigraphy, computed tomography scan and magnetic resonance image. Some of these procedures are invasive or have a high risk of induced-contrast nephrotoxicity. We present a case report of pleuroperitoneal leak in a patient on peritoneal dialysis diagnosed with Tc-99m scintigraphy. We conclude that Tc-99m scintigraphy is a simple, safe, non invasive, low radiation exposure in the diagnosis of complications related to peritoneal dialysis such as pleuroperitoneal leak.

Key Words: 흉수, 복막투석, 합병증

Pleural effusion, Peritoneal dialysis, Complication