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Favorable outcome in patients with FUO whose 18fluoro-deoxyglucose PET finding is non-diagnostic

¹순천향대학교 부천병원 감염내과, ²순천향대학교 부천병원 류마티스내과, ³순천향대학교 부천병원 핵의학과

*박 진¹, 김 탁¹, 추은주¹, 정혜민², 전찬홍², 황재필³, 박정미³

Background: 18fluoro-deoxyglucose (18FDG) positron-emission tomography (PET) is a useful method for identification of causes of fever of unknown origin (FUO). However, treatment is not known for patients with FUO whose 18FDG-PET finding is non-diagnostic. We focused on analyzing treatment and outcomes in these patients. **Method:** Patients with FUO who underwent 18FDG-PET were retrospectively identified from January 2016-June 2017. We usually recommend 18FDG-PET as a second-level work-up for FUO. Images were independently read. Variables such as final diagnosis, treatment regimens, and outcomes were researched and described. **Results:** A total of eight patients with FUO, complaining non-specific symptoms such as fever, chills, myalgia and headache, underwent 18FDG-PET during the study period. Of these, two patients were diagnosed with microscopic polyangitis and Kikuchi's disease and a patient was transferred to another hospital. Of five patients whose diagnoses were not confirmed, four patients received non-steroidal anti-inflammatory drug and/or low dose steroid and their symptoms disappeared. **Conclusion:** Outcome of patients with FUO whose 18FDG-PET finding is non-diagnostic seems favorable. Randomized controlled trials should be conducted to establish PET-guided treatment strategies for FUO.



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Infected total hip replacement after PROSTALAC by Mycobacterium tuberculosis

계명대학교 동산의료원 내과학교실

*나우철, 노창인, 이지연, 김현아, 류성열

The incidence rate of prosthetic joint infection after total hip replacement is 1.0~2.0%. But prosthetic joint infection due to Mycobacterium tuberculosis(MTB) is rare and has been reported as case series. In a retrospective study, only 0.3% of prosthetic joint infection were due to MTB. But there is no report of MTB infection at prosthetic joint after PROSTALAC implantation in Korea. A 54 year-old woman was admitted to the hospital with left hip pain for 1 year. 5 years ago, she underwent left total hip replacement surgery. Prosthetic joint infection was developed 1 year after surgery. Culture of pus grew methicillin sensitive Staphylococcus aureus. Implantation of prosthesis with antibiotic-loaded acrylic cement(PROSTALAC) on left hip joint was done and antibiotics was administered. Left hip pain was aggravated 4 years after PROSTALAC implantation. So she was admitted to our hospital and revision total hip arthroplasty was performed due to left hip PROSTLAC implantation site infection. Intraoperative tissue pathology revealed granulomatous inflammation with caseous necrosis and MTB nested PCR was positive. Antituberculous therapy was started and clinical improvement was observed after antituberculous medication.

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