

中文題目：顱底骨髓炎：個案報告

英文題目：Skull Base Osteomyelitis: A Case Report

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Introduction: Skull base osteomyelitis (SBO), an invasive bacterial or fungal infection usually originating from ear canals or paranasal sinuses, is a rare but potentially fatal disease.

Case Report: A 76 years-old man with chronic bronchitis, diabetes, hypertension, myelodysplastic syndrome, and end-stage renal disease on hemodialysis presented with high fever on May 29, 2016. Leukocytosis with bandemia was found. He was admitted to a local hospital and treated with antibiotics for presumed pyelonephritis. Fever persisted, and severe left-sided headache occurred 3 days later. Brain CT scan revealed paranasal sinusitis. On day 13, right side facial palsy occurred. On day 15, non-enhanced brain MRI showed progressive paranasal sinusitis. Right side hearing impairment and dysphagia occurred on the same day. Fever, headache, and leukocytosis with bandemia still persisted. On day 18, delirium and unsteady gait occurred. During the hospitalization, multiple antibiotics, including Ciprofloxacin, Tienam, and Vancomycin, were used, but surgery was not performed. On day 19, he was transferred to our hospital and directly admitted to the intensive care unit. Bilateral multiple sinusectomy was performed on the next day. Fever declined after the surgery. Cultures of the surgical specimen grew *Coagulase-negative Staphylococcus*. Tigecycline and Fortum were used. On day 24, Gallium scan showed high probability of SBO. On day 26, enhanced brain MRI confirmed the presence of SBO and also revealed diffuse meningeal enhancement. Hyperbaric oxygen therapy was applied. However, pneumonia with septic shock and multiple organ failure developed. Despite aggressive treatment, he did not recover from the protracted sepsis, and eventually passed away on day 72.

Discussions: Most patients with SBO are elderly diabetic patients, presenting with headache. Fever is not common, but cranial nerve palsy, especially facial nerve palsy, commonly occurred. Clinicians should be aware of the disease, and treat it promptly and appropriately.