Tropical pyomyositis caused by *Klebsiella pneumoniae* with rheumatoid arthritis

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The patient, a 33-year-old woman with rheumatoid arthritis, presented with a 3-month history of a painful nodule in the right thigh that progressively evolved to a large mass, accompanied by intermittent fever. Physical examination revealed a large fluctuating mass involving the entire anterior portion of the right thigh, which was tender and warm to palpation (Figure 1). Her medications included methotrexate 25 mg/week, prednisone 10 mg/day, [Infliximab 4mg/kg 6/6week] (total duration of treatment, 3 years). Laboratory tests revealed the following: hemoglobin 11.7 g/dL, white blood cell count 21.16×10³/µL with 85% neutrophils and 7% band cells, erythrocyte sedimentation rate 100 mm/h, and C-reactive protein level 15 mg/dL (normal<0.8 mg/dL). Blood culture was negative; Human Immunodeficiency Virus (HIV) and hepatitis serologies were non-reactive. Magnetic resonance imaging (MRI) of the right thigh revealed voluminous liquid collection involving the entire anterior compartment of the thigh with complete quadriceps musculature destruction (Figure 2, 3). A high volume of purulent material was drained after surgical incision of the abscess region, followed by necrotic muscle tissue debridement. Cultures from the abscess material and biopsy specimens of the muscles revealed *Klebsiella pneumoniae* with a multi-susceptible profile. Findings of fungal and mycobacterial tests were negative. Muscle biopsy showed abscedated nonspecific chronic myositis. Antibiotic treatment was initiated with imipenem for 14 days with a good clinical response. Tropical pyomyositis caused by gram-negative bacteria is uncommon and primarily seen in immunocompromised patients (1, 2), being identified in only 11% of patients according to an American meta-analysis (3). The diagnosis may be difficult, particularly when we are faced with an atypical clinical case, such as this patient.
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**References**


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**Figure 3.** Sagital T2-weighted MRI revealed the same liquid collection from the root of anterior thigh to the inferior limit of the right knee.