Magnetic resonance imaging (MRI) was performed in a 52-year-old woman with a several-year history of pharmacologically resistant, migraine-like, left hemicranial pain, lasting 48–72 h, accompanied with left eye “tunnel vision”. The presence of synovial effusion (Figure 1A and 1B) and associated dilated vein without erosions of the joint facets (Figure 1C) were observed on MRI.
facets and cartilage (Figure 1C) were revealed on precontrast and postcontrast MRI, consistent with inflammatory arthritis (IA). MRI of the brain and sacroiliac joints revealed no abnormalities.

No involvement of other joints was present. Rheumatoid factor (RF) was significantly positive, > 80 IU/ml (normal range 0–20 IU/ml), associated with markedly elevated erythrocyte sedimentation rate (ESR) and mildly elevated C-reactive protein levels.

After the antirheumatic treatment was administered (etoricoxib 90 mg/day), the ESR decreased from 80 to 20 mm/h, while RF decreased to 40 IU/ml. Marked release of migraine-like symptoms was evident. The involvement of the cervical spine in IA usually affects the atlantoaxial joints. Involvement of the atlantooccipital joint is much less frequent. Computed tomography with multiplanar reconstruction can document cervical spine bone damage and alignment abnormalities. However, MRI became the preferred modality for detection of spinal cord compression and evaluation of neural elements1. It is the only imaging tool that has the ability to assess simultaneously all relevant structures in inflammatory joint disease, including the synovium, cartilage, bone, ligaments, tendons, tendon sheaths, and the presence or absence of synovial fluid2. More recently, dynamic MRI studies have been used with the patient in flexed and extended positions for cervical spine IA evaluation3.

REFERENCES

