Chondrocostal osteitis: an uncommon complication of gastrostomy tube placement

Percutaneous endoscopic gastrostomy (PEG) and percutaneous radiologically guided gastrostomy (PRG) can lead to infectious complications [1]. We report the first case of chondrocostal osteitis due to gastrostomy tube placement. After a 10-year quiet period, a 69-year-old man with locked-in syndrome required five gastrostomy changes in 3 years. The most recent was performed under radiological guidance (PRG). He presented 3 months later with fever and abdominal pain and required hospitalization. He had peristomal inflammation with a purulent discharge around the tube. C-reactive protein (CRP) level was 154 mg/L without elevation of white blood cells (WBCs). Computed tomography (CT) scan showed infiltration of the abdominal wall (dashed arrows) in direct contact with the gastrostomy (thin arrow), plus calcifications of the adjacent costal cartilages (thick arrow). A 3-dimensional CT image reconstruction showed calcifications of the adjacent costal cartilages (arrow).

The samples from two punctures performed under CT scan were analyzed and results were positive for two distinct strains of coagulase-negative staphylococci, suggesting contamination. We hypothesized that the patient had a chondrocostal osteitis due to the gastrostomy. Although a single dose of antibiotic before PEG decreases the rate of infection in the short term [2], the benefit of antibiotic prophylaxis before PRG remains open to discussion [3].

We started probabilistic antibiotic therapy in our patient with ceftriaxone 2 g/d, ofloxacin 600 mg/d, and metronidazole 1 g/d to target Gram-negative bacilli, anaerobes, and staphylococcus. A blood culture containing methicillin-susceptible Staphylococcus aureus was justification to switch to ofloxacin 600 mg/d and rifampicin 900 mg/d. The course of the disease was favorable and we decided not to perform rib removal in this high-risk surgical patient.

After 4 weeks of antibiotic therapy, the patient had no sign of infection and a normalized biological balance (CRP 26 mg/L, WBC 5900/mm³). The CT scan was unchanged after 4 – 12 weeks (Fig. 2). We decided to stop antibiotic therapy after 12 weeks in accordance with the guidelines issued by the Infectious Diseases Society of America for bone and joint infection on prosthesis [4]. After 48 weeks, the CT scan showed major improvement (Fig. 3). After 1 year, medical treatment, without surgery, had proved to be effective.

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B. Davido¹,², C. Rouzaud¹, M. Hanachi³, P. De Truchis¹, A. Dinh¹, C. Perronne¹,²

¹Infectious Diseases, Raymond Poincaré Teaching Hospital, Garches, France
²Université de Versailles Saint Quentin-en-Yvelines, Montigny Le Bretonneux, France
³Nutrition Department, Raymond Poincaré Teaching Hospital, Garches, France

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Corresponding author

B. Davido, MD
Infectious Diseases Department
Raymond Poincaré Teaching Hospital
Garches 92380
France
Fax: +33-1-47107790
benjamin.davido@rpc.aphp.fr