IMAGING CASES

Ear pain – Not always otitis

Otalgia – Nem sempre otite

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A five-year-old male child was admitted to the Pediatric Emergency Department with pain, redness, and edema of the right ear pinna since the previous day. There was no history of trauma, insect bite, or instrumentation of the affected ear, and no previous medical or surgical history. Physical examination revealed pain, heat, erythema, and swelling of the cartilaginous portion of the auricle with preservation of the earlobe (Figure 1). The mastoid area showed no signs of inflammation. The ear canal was clear with no evidence of external otitis, and the tympanic membrane was normal. The remainder of the examination was unremarkable.

What is your diagnosis?

Figures 1 - Erythema and edema of the auricle with preservation of the earlobe.

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DIAGNOSIS

Acute auricular perichondritis

DISCUSSION

Auricular perichondritis is inflammation of the cartilaginous portion of the ear, classically sparing the fatty earlobe.\(^1\)\(^2\) Perichondritis usually results from piercing, insect bite, trauma, or surgical procedures, although this child had no obvious predisposing factors.\(^3\)\(^4\) Common pathogens include \textit{P. aeruginosa}, \textit{S. aureus}, \textit{E. coli}, and \textit{Proteus} species.\(^5\)\(^6\) The diagnosis of perichondritis is clinical and based on the classic physical examination revealing erythema and edema of the cartilaginous portion of the auricle with preservation of the earlobe.\(^7\)\(^8\) This key finding is very important and helps to differentiate perichondritis from other causes of otalgia.\(^9\)\(^10\) Auricular perichondritis must be diagnosed and treated promptly to avoid complications. Antibiotic therapy is the mainstay of treatment and should be targeted to cover skin flora and pseudomonas.\(^2\)\(^3\)\(^4\) Surgical incision and drainage may be considered if an abscess is present to prevent long-term deformities (e.g., cauliflower ear).\(^1\)\(^2\)\(^3\)\(^4\) This patient was treated conservatively with oral antibiotic (cefuroxime) and topical corticosteroid (mometasone), with marked improvement.

ABSTRACT

Acute auricular perichondritis is an infection of the external ear that can lead to potentially serious complications if not promptly diagnosed and treated. The authors present the case of a five-year-old boy who was diagnosed with acute perichondritis after presenting to the Pediatric Emergency Department with acute ear redness, swelling, and pain. The diagnosis of acute perichondritis was established based on the classic physical examination findings of erythema and edema with sparing of the earlobe.

Keywords: auricle, cartilage; ear; perichondritis; pinna

Palavras-chave: aurícula; cartilagem; ouvido; pavilhão auricular; pericondrite

AUTHORSHIP

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REFERENCES


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