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CASE REPORT

Eustachian tube involvement in a patient with relapsing polychondritis detected by magnetic resonance imaging: A case report

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Abstract

BACKGROUND

Relapsing polychondritis (RP) is a rare inflammatory disease involving the systemic cartilage, such as the auricle, trachea, and bronchiole, among others. A patient with RP shows variable symptoms based on the involved cartilage.

CASE SUMMARY

A 72-year-old Japanese woman with a history of redness of the bilateral auricles for 3 d was referred to a clinician. The clinician prescribed antibiotics to the patient; however, the symptoms worsened; thus, she was referred to our hospital. Head and neck magnetic resonance imaging (MRI) showed edematous auricle with remarkable contrast, fluid collection in the bilateral mastoid cells, suggesting otitis media. The eustachian tube (ET) on the right side was also edematous with contrast enhancement. The patient was suspected of RP according to the diagnostic criteria. A biopsy of the auricular cartilage was performed by an otorhinolaryngologist, confirming pathological proof of RP. Treatments with steroids were immediately administered thereafter.

CONCLUSION

We highlight a rare case of RP with radiologically confirmed involvement of ET in the MRI.



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Core Tip: Relapsing polychondritis (RP) is a rare inflammatory disease involving the systemic cartilage. Its diagnostic criteria and clinical manifestations are well established; however, no previous studies have reported the involvement of the eustachian tube (ET) in RP. A 72-year-old Japanese woman with a history of redness of the auricles for 3 d was diagnosed with RP with pathological evidence. The magnetic resonance imaging (MRI) showed edematous ETs with contrast enhancement. The MRI manifestation was considered as inflammatory changes of the ET cartilage.

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INTRODUCTION

Relapsing polychondritis (RP) is a rare autoimmune inflammatory disease of the systemic cartilages and proteoglycan-rich structures^[1]. The real incidence and prevalence of RP are still unknown. The major inflammatory sites of this disease are the ears, nose, eyes, respiratory tract, and joints[2-5]. The clinical manifestations in the otological area are auricular chondritis, otitis externa, chronic myringitis, eustachian tube (ET) dysfunction, conductive or sensorineural hearing loss, dizziness, and tinnitus[6,7]. The cause of fluid collection in a middle ear of a patient with RP should be derived from ET dysfunction due to ET cartilage inflammation; however, no report has proven the inflammation of an ET itself radiographically. We hereby present a case of a patient with RP confirmed by biopsy of the auricular cartilage, manifesting the involvement of ET detected by magnetic resonance imaging (MRI).

CASE PRESENTATION

Chief complaints

A 72-year-old Japanese woman with a history of redness of the bilateral auricles for 3 d was referred to a clinician.

History of present illness

The clinician prescribed antibiotics to the patient (2 g in a day of cefminox sodium hydrate for 3 d); however, the symptoms worsened, and thus, the patient was referred to our hospital.

History of past illness

The patient's medical history included hypertension, type 2 diabetes mellitus, lumbar disc hernia, postmenopausal osteoporosis, and reflux esophagitis.

Personal and family history

The patient had no family history of similar illnesses.

Physical examination

Her body temperature was 37°C. No abnormal chest sound was not heard; however, the patient was suffered from dry cough. Tender, erythematous and edematous bilateral auricles were observed (Figure 1A). Left conjunctival hyperemia was also





Figure 1 Photographs of the patient's left ear and right eye. A: Swelling and redness; B: Demonstrating conjunctivitis.

observed (Figure 1B). Additionally, trismus was observed, which resulted in mastication difficulty. A pure tone audiogram showed sensorineural hearing loss at the high sound area, and the patient complained of tinnitus. Nasal cartilage inflammation or dyspnea was not observed. The patient met four indices of McAdam's criteria^[8]. A tympanic membrane proliferation was not observed.

Laboratory examinations

White blood cell count of $14200/\mu$ L (segmented 77.8%), red blood cell count of $383 \times$ 10^4 /µL, a hemoglobin level of 12.1 g/dL, platelet count of 29.8 × 10^4 /µL, the total protein level of 7.6 g/dL, albumin level of 3.6 g/dL, total bilirubin level of 0.7 mg/dL, creatinine level of 0.88 mg/dL, eGFR of 48.3 mL/min, C-reaction protein level of 11.03 mg/dL, hemoglobin A1c of 7.0%, and antinucleus antibody level of < 40 U were observed.

Imaging examinations

Chest computed tomography showed no subglottal, tracheal, or bronchial swelling. ETs are located in the parapharyngeal space on noncontrast-enhanced 3D T1-weighted image (flip angle, 120; repetition time, 600; echo time, 12; number of excitations, 1; slice thickness, 0.8 mm; and field of view, 25 cm × 28.4 cm). The Merkmal of the ET is the levator veli palatine muscle on the upper side and the tensor veli palatine muscle on the lower side (Figure 2A). Noncontrast-enhanced fat-saturated T2-weighted images (flip angle, 111; repetition time, 6060; echo time, 64; number of excitations, 1; slice thickness, 4 mm; slice space, 4.8 mm; and field of view, 25 cm × 28.4 cm) of the patient demonstrated edematous bilateral ETs (Figure 2B). The contrast-enhanced 3Dvolumetric interpolated breath-hold examination T1-weighted image (flip angle, 11; repetition time, 5.5; echo time, 2.46; number of excitations, 2; slice thickness, 1 mm; and field of view, 30 cm × 34.1 cm) demonstrated enhanced bilateral ETs (Figure 2C).

Pathology

A biopsy from the auricular cartilage, a tissue composed of hyaline cartilage and connective tissue, was performed by an otorhinolaryngologist, and moderate chronic inflammatory cell infiltration including the lymphocytes and plasma cells is observed in the fibrous connective tissue and is partially vitrified. Inflammatory cells have infiltrated part of the hyaline cartilage.

FINAL DIAGNOSIS

The final diagnosis was RP.

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Yunaiyama D et al. Relapsing polychondritis involving the eustachian tube



Figure 2 Non-contrast-enhanced and contrast-enhanced images of the patient. A: Non-contrast-enhanced T1-weighted image of the patient. The Eustachian tube (white arrow) is located in the parapharyngeal space (contoured area). The Merkmal of the Eustachian tube is the levator veli palatine muscle (blue arrow) on the upper side and tensor veli palatine muscle (orange arrow) on the lower side; B: Non-contrast-enhanced fat-saturated T2-weighted image of the patient demonstrated edematous bilateral eustachian tube (white arrow); C: Contrast-enhanced 3D-volumetric interpolated breath-hold examination T1-weighted image demonstrated enhanced bilateral Eustachian tube (white arrow).

TREATMENT

The patient started undergoing steroid therapy using 30 mg/d of prednisolone with preventive antifungal medications as there was no life-threatening symptom. The patient also started taking sulfamethoxazole trimethoprim to prevent Pneumocystis jirovecii pneumonia.

OUTCOME AND FOLLOW-UP

The clinical course of the patient was summarized in Table 1. The patient's symptoms decreased after drug treatment within 2 wk. Laboratory inflammation markers also decreased. We are following up to see if there is any improvement in sensorineural hearing loss. The edema and contrast enhancement of ETs disappeared in the followup MRI at 8 wk.

DISCUSSION

To the best of our knowledge, this is the first report of a patient with RP manifesting as enhanced and edematous ET on MRI by reviewing previous mass reports and imaging review[3-5,9,10]. The only head and neck lesion other than auricles and nasal cartilage



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Table 1 Summary of the clinical course of the patient			
Time point	Remarks		
July 24, 2021	Redness of the bilateral auricles		
July 27, 2021	Antibiotics administration at a clinician		
August 10, 2021	Referred to our hospital		
August 18, 2021	Non contrast enhanced chest to abdominal CT without significant findings		
August 20, 2021	Biopsy for auricular cartilage		
August 21, 2021	Contrast enhanced head and neck MRI with presenting figures		
	Prednisolone administration was started		
September 1, 2021	Symptoms and laboratory abnormality improved remarkably		
October 28, 2021	Disappeared edema and contrast enhancement of eustachian tubes on MRI		

was orbital involvement reported by Moore *et al*[1]. Otitis media has been known as a common manifestation of a patient with RP; however, the reason behind its occurrence has not been discussed to date. Theoretically, an ET might be involved in a patient with RP as it comprises cartilages, the inflammatory target of RP. Otitis media in adults can be divided into four types of manifestations: microorganism infections in the ET from the nasopharynx to middle ear that manifesting acute otitis media; obstruction of the ET orifice to the nasopharynx due to nasopharyngeal carcinoma, nasopharyngeal inflammation, or ET dysfunction, resulting in a fluid collection in the middle ear manifesting otitis media with effusion (OME); a proliferation of tympanic membrane results in chronic inflammation of the middle ear manifesting chronic otitis media; and cholesteatoma, a keratinized, desquamated epithelial collection in the middle ear. In this patient, infectious symptoms, tympanic membrane proliferation, or cholesteatoma was not observed so that OME was suspected. Fluid collection in the middle ear of patients with RP could be due to ET dysfunction caused by inflammation of the involved cartilages as in this case; however, this has not been proven as a pathological examination at this site.

CONCLUSION

We experienced a case of patients with RP representing edematous and enhancing ET on MRI accompanying otitis media. Otitis media in patients with RP was suggested to be caused by ET dysfunction through inflammatory changes.

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