Acute eosinophilic pneumonia (AEP) is a disease characterized by acute onset of febrile respiratory symptoms, bilateral diffuse infiltrates on chest radiography (defined as an arterial oxygen pressure below 60 mm Hg or arterial oxygen saturation below 90% in room air), bronchoalveolar lavage (BAL) showing over 25% of eosinophils or eosinophilic pneumonia on lung biopsy, and absence of known causes of pulmonary eosinophilia. Although the pathogenesis of AEP remains unclear, many studies have proposed a close relationship between direct cigarette smoking and the development of AEP. We treated a 19-year-old female who had never smoked but had recently been exposed to massive amounts of cigarette smoke in an enclosed cafeteria, and developed clinical and pathologic features of AEP.

Keywords: Pulmonary Eosinophilia; Tobacco Smoke Pollution; Tobacco Products

Introduction

Acute eosinophilic pneumonia (AEP) is a disease characterized by acute onset of febrile respiratory symptoms, bilateral diffuse infiltrates on chest radiography (defined as an arterial oxygen pressure below 60 mm Hg or arterial oxygen saturation below 90% in room air), bronchoalveolar lavage (BAL) showing over 25% of eosinophils or eosinophilic pneumonia on lung biopsy, and absence of known causes of pulmonary eosinophilia. Although the pathogenesis of AEP remains unclear, many studies have proposed a close relationship between direct cigarette smoking and the development of AEP. We treated a 19-year-old female who had never smoked but had recently been exposed to massive amounts of cigarette smoke in an enclosed cafeteria, and developed clinical and pathologic features of AEP.

Case Report

A 19-year-old female visited our hospital complaining of cough, sputum, fever and dyspnea for 5 days. She had been healthy and had no medical or medication history. She had never smoked, but she had spent 6 to 8 hours a day for the last 4 weeks in a cafeteria for a group study being expose to environmental cigarette smoke. She was mildly dyspneic with an oxygen saturation of 85%, and other vital signs included a blood pressure of 122/85 mm Hg, a pulse rate of 100 beats per minute, a respiratory rate of 20 breaths per minute, and a body temperature of 37.5°C. On physical examination, inspiratory crackle was audible in both lung fields. Laboratory data revealed a peripheral white blood cell count of 10,130/mm³ (43.2% neutrophils, 36.9% lymphocytes, 10.1% monocytes, 9.1% eosinophils), hemoglobin of 13.0 g/dL, platelet count of 301,000/mm³, and a mild elevated serum C-reactive protein of 3.34 mg/dL. Other blood biochemical examination showed no specific abnormalities. Arterial blood gas analysis performed in ambient air showed pH 7.427, PaCO₂ 37.3 mm Hg, PaO₂...
49.8 mm Hg, HCO$_3$ 22.0 mEq/L, and oxygen saturation 83.6%.

Initial chest radiographs showed diffuse bilateral interstitial infiltrates with ground glass opacity (Figure 1A). Computed tomography of the chest revealed symmetrical patchy consolidation and ground glass opacity with thickening of interlobular septa (Figure 1B). Rheumatoid factor, antinuclear antibody

Figure 1. Chest radiography and computerized tomography (CT) scan on admission and 2 months after treatment. (A) Chest radiographs on admission revealing bilateral interstitial infiltrates and ground glass opacity. (B) Low dose chest CT on admission revealing symmetrical patchy consolidation and ground glass opacity with thickening of the interlobular septa. (C) Chest radiography at 2 months after treatment showing normalized lung. (D) Chest CT at 2 months after treatment also showing normalized lung.

Figure 2. Bronchoalveolar lavage specimen representing an increase in eosinophils up to 50% (A, Giemsa staining, ×400; B, Wright staining, ×400). The percentage of macrophages had decreased to 20%, and neutrophils and lymphocytes was 10% and 20%, respectively.
Discussion

Our patient had been exposed to intense secondhand smoke in an enclosed cafeteria prior to the onset of AEP. Many studies have reported an association between direct smoking and development of AEP. Some studies have used a cigarette-smoking challenge test to check for a direct association between smoking and development of AEP. An epidemiologic study of AEP identified 18 patients among 183,000 US military personnel, and indicated that all of the patients were cigarette smokers, with 78% being new smokers with a mean duration of cigarette use of 1 month prior to disease onset. Uchiyama et al. reported a relationship between smoking habits and idiopathic AEP in 33 patients and 137 patients, respectively. In those patients, the disease had not been induced by secondhand smoking.

Two studies have looked at an association between indirect cigarette smoking and AEP in the last 10 years. In the first study, a 19-year-old male patient had been exposed to secondhand smoke from dormitory room and computer room for 8 days prior to onset of AEP. His urinary cotinine on the 5th day of admission was 0 ng/mL, which indirectly showed that the patient had not been exposed to direct smoking. However, he had a brief history of smoking 1 year before the exposure to secondhand smoke which makes difference with this study. The second study studied a 22-year-old male who had been exposed to a large amount of cigarette smoke in an enclosed space for about 2 hours 2 days previously. He had a past medical history of atopic dermatitis. Unlike previous two studies, the patient in this case had no history of direct smoking and allergic diseases, which might be associated with 4 weeks of relatively latent onset of AEP. Even more impressive, this is the first study to look at female with AEP associated with indirect cigarette smoking compared with previous two studies. Some reports have found that AEP is less likely to develop in females than males, although there was no difference in the clinical course. Janz et al. examined the demographic of AEP, and reported that 61% of 84 patients with AEP were men and 39% were women.

The mechanism by which cigarette smoke induces AEP is yet to be determined. Cigarette smoke is a strong inflammatory stimulus that induces cytokines, such as interleukin (IL)-5, IL-6, and IL-7, as well as tumor necrosis factor (TNF), which may be the inciting event causing eosinophil-rich exudate in alveoli. Thus, these cytokines are thought to be important factors that may induce AEP. Flouris et al. studied the effects of secondhand smoke on inflammatory markers. IL-4 and TNF-alpha were significantly increased in men and IL-5, IL-6, and interlefer-gamma were increased in women after exposure to secondhand smoke. Therefore, passive smoking is thought to influence the inflammatory cytokines and chemokines that are important factors inducing AEP.

The patient's passive smoking was not objectively proven in this case. The patient in this case was a female who had never been smoked, and all the results of patient's self report, laboratory tests, cultures excluded the possible causative drugs, allergens, viral, bacterial, fungal and parasite infection, which could possibly cause AEP. Few days after admission, we realized that she had spent 6 to 8 hours a day for the last 4 weeks in a cafeteria for a group study, being exposed to cigarette smoking environment. We suspected that the only possible causative agent that could have induced AEP in this case to be the massive and intensive cigarette smoking environment. There are several ways to assess one's exposure to tobacco smoke such as taking measure of urinary nicotine and urinary cotinine, the metabolite of nicotine. However, in this case, checking the amount of urinary cotinine was meaningless since the half life of cotinine had already passed at that time. Although there was no direct evidence of patient's passive smoking, passive smoking might have induced AEP based on all circumstances.

This case report suggests that indirect smoking is as associated with AEP as direct smoking and that passive smoking may be injurious to young non-smoking subjects. The mechanism is not clear, but inflammatory cytokines and chemokines induced by indirect smoking may be important. Further com-
prehensive studies should be designed to evaluate the effect of passive smoking on AEP.

**Conflicts of Interest**

No potential conflict of interest relevant to this article was reported.

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