

PIXE analysis of microelement included in oral lichen planus affection mucosa

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Abstract

A cause of oral lichen planus does not become clear. It is assumed that an allergy to metal is convincing while various opinions are present. However, there were not the oral lichen planus affection mucosa and the study of metal relations. Therefore we used PIXE method, and a component element of oral lichen planus affection mucosa was examined directly. We study it to specify cause metal. We examined component metal of oral lichen planus affection mucosa of 31 samples this time. The data were compared with healthy oral mucosa. As a result, clear cause metal specification is not led to. However, there was much it, and, by comparison limited to a woman older than 30 years old assumed that there was much oral lichen planus affection, several kinds microelement was included in oral lichen planus affection mucosa. There were much Fe, Zn, Al, Sr with a statistical significance difference. There was not the statistical significance difference, but a lot of Pb was contained. These metal is paid attention to, and study is going to be continued in future.