



Defining reference values of trace elements in the tear film: Diagnostic methods and possible applications

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ABSTRACT

The study has been performed on tears of apparently healthy subjects who live and work in urban and rural areas, respectively. After the collection the following elements were investigated: chromium (Cr); arsenic (As); copper (Cu); zinc (Zn); selenium (Se); rubidium (Rb); barium (Ba); lead (Pb) and cobalt (Co). Significantly higher values of As were found in subjects living and working in rural areas as compared to those found in urban area residents (0.290 vs. 0.025; $p=0.001$). Conversely, Ba and Pb were significantly lower in rural area residents (1.10 vs. 2.50, $p=0.027$ and 1.70 vs. 1.10, $p=0.057$, respectively). Our data show that trace elements analysis in tears is possible; further studies could define if it could be a reliable biomarker in persons exposed to high concentration of trace elements due to working or environmental reasons.

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1. Introduction

Tear film is a fundamental component to preserve homeostasis and wellness of the eye surface. It is a delicate structure in continuous dynamism, which covers the eye surface and constitutes the front side of the eye diopter, with relevant optical functions (the diopter tear film–air is the most powerful among the various eye diopeters). Other important actions are (i) lubricant activity, responsible for friction drop between eyelids and eyeball during blinking, and (ii) metabolic activity, throughout the storage and release of oxygen, which is dissolved into tears to subsequently convey to the epithelial cells (Rolando and Zierhut, 2001).

The tear film has also important tasks in defending the structures of the surface and of the eye throughout its cleaning ability to remove external agents coming from the atmosphere. The dilution power can quickly reduce the concentration of chemicals, as well as of the potentially pathogen microorganisms, therefore reducing bacterial load. It acts as a filter against some harmful light radiations. The buffering power can quickly correct relevant air acidity variations, which are potentially damaging. The presence of proteins with bacteriostatic, bactericide and

antiviral properties (particularly located at the film watery component level), such as the secretory IgG and IgA, the complement, the lysozyme and the lactoferrin, which all together represent the most articulated and efficient defense system against microorganisms. Last but not the least, it represents the preferential way for leukocytes to access into the cornea in case of wounds and inflammations and it allows the removal of metabolism waste products coming from the epithelial, corneal and conjunctival gametes (Tiffany, 2008).

Thanks to its extraordinary dynamic powers and due to the richness and variability of its solutes, which can modify their concentration and absolute quantity according to the needs of the organism (not to talk about the most specialized characteristics under the optical and lubricant standpoint), the tear film represents for the ocular surface the equivalent of blood for other organs. The tear film structure has been known for a long time. It is constituted by three layers: the external lipid layer, the middle watery layer and the inner mucous layer (Fig. 1).

The lipid layer (which is about 0.1 μm thick) is constituted by waxes and cholesterol esters, which, at body temperature, are in a liquid status. The main sources of the lipids constituting this layer are the Meibomian glands, along with a certain contribution of the Zeiss and Moll glands. The watery layer (which is about 7 μm thick) constitutes the biggest part of the tear film and is formed by a watery solution of inorganic salts, glucose, urea, enzymes, proteins and glycoproteins. It is produced by the main and ancillary tear glands. The latter are between 4 and 35 and they

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