DELIVERY TYRO

Daily disposable contact lens with Tyrosine,
Hyaluronic Acid and ***TSP®***

A NEW PROSPECTIVE

More and more scientific studies show that it is necessary to intervene in the correction of refractive errors in school age and adolescence. The genetic aspects seem to be marginal with respect to environmental factors, that is, those behaviors and habits that can affect the development of visual anomalies, such as prolonged use of digital devices (proximal visual activity) or spending many hours indoors reducing exposure to beneficial wavelengths of sunlight.

The biochemical approach allows to mitigate the risk factors of modern lifestyle, for the correct ocular development. Safilens, in collaboration with the EYE BANK FOUNDATION, identified and evaluated an amino acid as a **promoter for the normalization of the correct development of visual and refractive function, TYROSINE.**

DELIVERY TYRO contact lenses are enriched with natural active ingredients called Lachryceuticals® and, thanks to Safilens' unique and patented production process, during use, these substances are released in a constant and controlled manner by the lens, to the anterior surface of the eye. The release process is triggered by a combination of body temperature, blinking and eyelid pressure.

Besides Tyrosine for the normalization of eye development, DELIVERY TYRO contact lenses also release hyaluronic acid and TSP® natural polysaccharides to ensure maximum and lasting **comfort, safety, hygiene and simplicity for younger wearers.**

Tyrosine plays a fundamental role in the synthesis of important neurotransmitters such as dopamine, the presence of which has been shown to have significant normalizing effect in ocular development, especially an **inhibitory effect on the elongation of the eye, typical of the myopic condition.**[1]

8-15 ANNI

In recent decades we have witnessed a significant increase in world myopic population. The manifestation of myopia occurs more and more at a younger age with an **increased severity of myopia progression during childhood and adolescence** predominantly in urban areas and among highly digitalized and educated population.

The metabolic production of retinal dopamine is stimulated by sunlight, therefore outdoor activities can be beneficial for the physiological development of the eye. Unfortunately, the habits of modern times lead us to drastically reduce the time spent outdoors and consequently also the spontaneous production of the neurotransmitter[2], as well as the excessive proximal accommodative effort used for studying or using digital technologies that further inhibits natural dopamine availability.

Tyrosine promotes the production and availability of dopamine and **acts as an enhancer of the effects of beneficial wavelengths of sunlight (360-400 nm).** The regular use of DELIVERY TYRO contact lenses that release this amino acid regulates retinal dopamine levels by normalizing ocular metabolic activity and favoring the physiological development of the eye[3].

[1] Zhou X, Pardue MT, Iuvone PM, Qu J. Dopamine signaling and myopia development: What are the key challenges. Prog Retin Eye Res. 2017. [2] K. A. Rose, I. G. Morgan, J. Ip, A. Kifley, S. Huynh, W. Smith, P. Mitchell. Outdoor Activity Reduces the Prevalence of Myopia in Children.Ophthalmology 2008;115:1279–1285 © 2008 by the American Academy of Ophthalmology. [3] D. Ponzin. Delivery Tyro daily disposable contact lens for the correction of mild and moderate myopia. MD Fondazione Banca degli Occhi del Veneto 2020.