Retinal Implantation for the Blind

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About the seminar:

Sight is the sense that people fear losing the most. Sight loss has a significant impact on a person's daily life. A person who suffers with sight loss, such as those who suffer with RP, can experience difficulties related to tasks that most people take for granted.

A person who suffers with sight loss can experience difficulties relating to maintaining their independence, social isolation, activities of daily living and issues around financial support.

Loss of visual field is associated with a decrease in physical mobility and difficulties in adjusting being blind.

This speech will focus on new Technologies for the treatment of blind such as RP. The Argus II system works by bypassing damaged retinal cells and electrically stimulating retinal ganglion cells, creating visual perceptions (percepts) of light. This is the first example of a system, or any therapy, that has demonstrated improved visual function in the extremely low-vision range (NLP to HM) in this population.

Insertion of an epiretinal prosthesis aims to restore perception of light, movement and shapes by surgically implanting an array of electrodes onto the retina

About the speaker:

M. Recai ARSLANTAŞ, studied both Biomedical Engineering BSc. and received his MSc degree on Biomedical Engineering at Başkent University. Since 2005, he has been actively working in the field of Audiology in Erişçi Elektronik. He received his MSc. On Audiology and Speech Disorders from the Department of Audiology at Başkent University in 2017. Simultaneously he is giving lectures on Instrumentation of Audiological Devices at İstanbul Aydın University Department of Audiology.