



## ***The roles of visual evoked potential (VEP) and Electroretinography (ERG) in the diagnosis and management of multiple vision disorders***

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### ***Abstract***

Visual Evoked Potential (VEP) measures the electrical activity in the entire vision system. When light enters the eye it is converted to electrical energy at the retina and travels through the optic nerve to the visual cortex which processes vision. The Diopsys VEP test measures the strength and speed of the retinal signal all the way to the visual cortex. VEP technology uniquely helps determine the communication between the eye and the brain. Electroretinography (ERG) measures retinal function. When light enters the eye it is converted into electrical energy by cones and rods, visual cells. ERG tests record the activity of the visual cells and thereby reflecting cell health and integrity. These two modalities are useful in diagnosing cellular pathology such as Age Related Maculopathy (AMD), glaucoma, Diabetic Macula Edema (DME), amblyopia, brain injury, stroke and other vision related issues. VEP is especially useful in Infant and Pediatric exams to diagnose pathology.



### ***Biography:***

Herbert Gould graduated from Bowdoin College and received an MD from Columbia's College of Physicians and Surgeons. He served his internship at the 1st Medical Division, Bellevue Hospital and was a resident at the Manhattan Eye, Ear & Throat Hospital, where, as senior resident, he initiated the Contact Lens Clinic. He continued his medical studies at the Institute of Ophthalmology (London), Harvard Medical School, and the Downstate Medical Center, NY, where he received a corneal fellowship which included Moorfields Eye Hospital, London. Gould was the founder and first president of the New York Keratorefractive Society. He has been a Teaching Fellow at State University of New York, was Assistant Clinical Professor in Ophthalmology at State University of New York (Downstate), Associate Clinical Professor at New York Medical College, and served as an Instructor at the American Academy of Ophthalmology.

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