

RETeval[®]

LUOTETTAVA ERG- TUTKIMUS 5 MINUUTISSA* MISSÄ JA MILLOIN VAIN

Ilman puudutusta tai
pupillin laajentamista



RETeval ERG/VEP

- Flash ja Flicker ERG ja Flash VEP
- ISCEV-protokollan mukainen
- Laaja normatiivinen data
- Yli 40 julkaistua kliinistä tutkimusta
- Patentoidut ihoelektrodit ja pupillometri



- Kannettava ja helppokäyttöinen
- Tulokset näkyvät heti näytöllä
- 50 tuloksen muisti, helppo siirto ja tulostus
- Ihanteellinen myös hankalien potilaiden tutkimiseen (vauvat, lapset, vanhukset)

* riippuu protokollasta

A Guide To Our Most Common Protocols

3 Most Common Protocols on the RETeval[®] Device

Protocol Number	Protocol Name	Type of Stimulation	Measurement Time Per Eye	Cellular Layers of Retina Assessed
#1	ISCEV Photopic flash/flicker Td	White light flash & flicker	30 seconds	Cones and cone bipolar cells
#2	Flicker: 16 Td-s or Flicker: 32 Td-s for patients with cataract	White light flicker	15 seconds	Cone bipolar cells
#3	PhNR 3.4 Hz Long / Short Td	Red flash on blue background	60 sec / 30 sec	Cones, cone bipolar cells, ganglion cells

Disease	Protocol			Symptoms
	#1	#2	#3	
Optic neuritis, atrophy ¹⁻⁹ including glaucomatous optic atrophy			✓	Blurred vision, blind spots
Diabetic Retinopathy ¹⁰⁻¹⁵		✓		Blurred vision, dark spots, color vision impairment
Night vision problems Rod-Cone dystrophies RP ^{8,16-18} , LCA ¹⁹ , CSNB ^{8,20-21} , Usher ²² , Vitamin A deficiency ²³	✓	✓	✓	Poor night vision first, inheritable, progressive loss of peripheral vision
Day vision problems Cone-Rod dystrophies ²⁴⁻²⁵ Achromatopsia ²⁶ , Stargardt ^{8,27-28}	✓	✓	✓	Early loss of color vision and visual acuity, photophobia
Nystagmus ²⁹⁻³⁰		✓		Reduced or limited vision and depth perception
Retinal vein occlusion CRVO ³¹⁻³⁶ , BRVO ³⁷⁻³⁸		✓		Vision loss or blurry vision in part or all of one eye, floaters
Anti-VEGF injections ³²⁻³⁶ Timing, Monitoring, Toxicity	✓	✓	✓	Treatment in vascular eye disorders, repeated intravitreal injections, potential toxicity
Acute zonal occult outer retinopathy (AZOOR) ^{8,39}	✓		✓	Sudden decreased vision in zones of peripheral retina, initially in one eye
Retinal detachment Retinal trauma ⁴⁰	✓	✓	✓	Floaters, flashes of light, "a curtain" over part of the visual field, emergency
Autoimmune retinopathy (AIR) ^{8,41-42}	✓	✓	✓	Vision loss, scotomas, visual field deficits, antiretinal autoantibodies present
Cancer associated retinopathy (CAR) ⁴³⁻⁴⁵	✓	✓	✓	Rapid, progressive central vision loss, flashing lights, col or vision impairment and photosensitivity
Retinal complications of drug toxicity ⁴⁶⁻⁵⁰	✓	✓	✓	Blurry vision, increased light sensitivity, loss of visual acuity and color vision, symptoms depend upon the type of drug
Chorioretinopathy ⁵¹		✓		Blurred or distorted vision, acute reduced visual acuity, mostly males, stress-related
Nonorganic visual loss (NOVL) ⁵²	✓	✓	✓	Visual acuity better than subjectively alleged, confirmed functional integrity

Taulukossa numeroidut viittaukset pyydettyessä tai netistä osoitteessa www.terveystekniikka.fi



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