

CONSACRAT ANIVERSĂRII A 75-A DE LA FONDAREA USMF "NICOLAE TESTEMIȚANU"

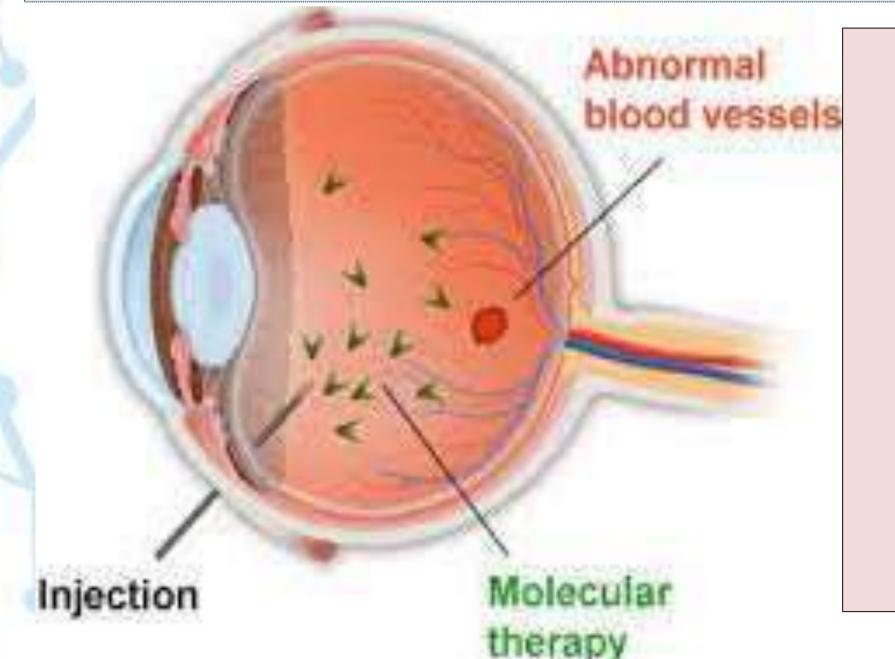
COMPLICATED PROLIFERATIVE DIABETIC RETINOPATHY, TREATMENT OPTIONS.

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Introduction: Diabetes mellitus is one of the most widespread metabolic pathology, caused by glucose excess, (Fig. 1) affecting about 463 worldwide. Diabetic adults million of retinopathy (DR) is one of the most serious complications, leading to progressive decline and loss of vision. A recent meta-analysis pol (1990-2020) reported that in 2015, 2.6 million people were visually impaired due to DR, a figure projected to rise to 3.2 million in 2020, with a global overall prevalence of 34.6% for any DR.

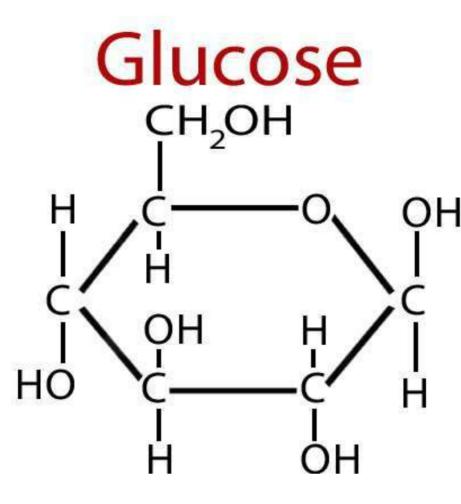
Purpose: To study contemporary methods of treatment and prevention of a complicated diabetic retinopathy.

Material and methods: Scientific articles published in international specialized journals during the period of 2016 -2020.



Keywords: Diabetes mellitus, complicated diabetic retinopathy, treatment.

(Fig.2) Intraocular injection with anti-VEGF



(Fig. 1) Chemical structure of glucose

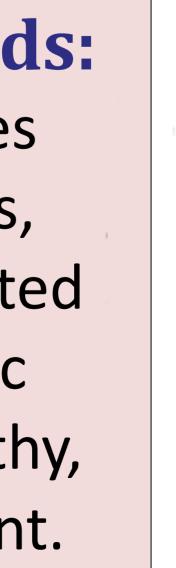
Results: Diabetic retinopathy complications: Macular edema, vitreous hemorrhage, tractional retinal detachment, neovascular glaucoma, gliosis, etc.

I. Prev and ge treatr

II. Lo speci treatm

III. Fut therap

Conclusions: The pharmacological products used in time can prevent the occurrence of complicated proliferative diabetic retinopathy. For direct treatment of complications surgical methods are more effective, these are: panretinal laser photocoagulation, vitrectomy, introcular injection with anti-VEGF.





(Fig. 3) General treatment



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entior enera nent:	under 7.5%. Monitor blood pre
cal fic ent:	 Intraocular injections with anti-VEGF neovascularization by inhibiting the erresponsible for cell proliferation in blo Panretinal photocoagulation: using Armicropulse diode laser technologies. Vitrectomy also a surgical procedure or hemorrhage of 1–3 months duration removing and to restore the retina structure detachment. Combined treatment
ure ies:	•Adose reductase inhibitor: The mecha the flow of glucose through the polyo inhibition of tissue accumulation of so preventing the reduction of redox pot been successfully tested on diabetic n more in-depth studies on humans.

rol with oral antidiabetic taining HbA1c levels essure using as correction of d fenofibrates.

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agents are used to prevent endothelial growth factor ood vessels. (Fig.2) rgon, Krypton and

used for the vitreous or longer. It is used for scar ructure in case of retinal

anism of action is to reduce I pathway leading to orbitol and fructose, thus tentials. This therapy has mice and dogs, expecting