TITLE :	Choroidal and scleral invasion in retinoblastoma A classification proposal	
AUTHORS :	Imhof S. M., VALK P. van der, Moll A.C. , Schouten - van Meeteren A.Y.N & Tan K.E.W.P.	
INSTITUTION : Free University Amsterdam - The Netherlands		
Purpose :	To define a classification to choroidal and scleral invasion in retinoblastoma, that may serve as a basis for clinical studies concerning the risks for metastasis due to choroidal invasion, the effects of peophylactic treatment, and thus to determine the proper indications for adjuvant therapy.	
Methods :	By studying PA specimens of eyes enucleated because of retinoblastoma with emphasis on the nature and extent of scleral and choroidal invasion	
Results :	A 5-stage classification together with standard photographs of the respective stages was developed.	
Conclusion :	It is possible to define a simple classification for choroidal and scleral invasion in retinoblstoma.	

# RICCHERICAL CTUDIES OF LACRIMAN FIND DIN PHEDICITNG OF CLANICAL MANIFESTATIONS OF TRAUNATIC UVELITS (TU

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Surpose- To work out prognosis of TU course on the same of biochemical findings of the tear.

Activity of Incine dehydrogenese (LDE) and malate hydrogenese (MDE) was delemined by routine standari spectrophotometry (V.V.Menshikov, 1987, Ame-lung, 1988) adopted to small volume of the fluid.

Results- "Predictive index" of LDH/#DH mA HO WAS de-ter to i during the first /4 hours after trauma at estimate with favourable (the 1-st group) and severe course (the 2-nd group) of TU. Coefficient of LDH/MDH ratio was  $a_1/(2\pm0.5)$  in the first group; in the second one  $= 6.0\pm0.7$ ; at healthy people  $= 4.4\pm0.7$ Conclusions - Rominvasive studies of incrimal enzy-mes LDH and EDH activity give the possibility to the first of the absorbance of TM alimical manifestations in 63% of patients without any signs and symplems of the disease in the first 24 hours after trauma.

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#### TITLE : Optic nerve invasion in retinoblastoma A classification proposal Tan K.E.W.P., VALK P. van der, Imhof S. M., Moll A.C. & Schouten - van Meeteren A.Y.N. AUTHORS :

- INSTITUTION : Free University Amsterdam The Netherlands
- To define a classification for optic nerve involvement in retinoblastoma, that may serve as a basis for clinical studies concerning the resks for metostasis due to optic nerve invasion, the Purpose : effects of prophylactic treatment, and thus to determine the proper indications for adjuvant therapy.
- By studying the nature of optic nerve involvement in PA specimens of eyes enucleated because of retinoblastoma with regard to anatomical landmarks. Methods :
- Results : A 5-stage classification together with standard photographs of the respective stages was developed.
- It is possible to define a simple classification for optic nerve involvement that specifies the nature and the extent of the invasion. Conclusion :

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#### **6-RECEPTORS IN THE RABBIT LACRIMAL GLAND** PETOUNIS A.

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Purpose B-agonists and B-blockers are widely used systematically for a variety of diseases, producing tear production atterations. The effect of various either selective or mixed 6-blockers and 6-agonists on tear production of the rabbit lacrimal gland was investigated.

Method: Tear flow was determined by means of a direct cannulation of Method: team how was determined by means of a direct calindation of the excretory duct of the rabbit lacrimal gland, for up to 90 min, under pentobarbital anesthesia. Tear volume secreted was calculated knowing the tube diameter and length of tear column. Selective  $\beta_1$ ,  $\beta_2$  agonists and blockers, were injected LM, either in a bolus dose one hour prior to the tube diameter and length of tear column.

and blockers, were injected LM. either in a bolus dose one hour prior to duct cannulation or as a single daily treatment for up to five days. **Results:**  $\theta_2$ -agonists, but not  $\theta_1$ , given as a single LM. injection, significantly increase tear production (p < 0.001). Increasing the  $\theta_1$ -agonists dose an equal effect was observed too, due to selectivity disappearance. Repeated daily administration of the  $\theta_2$ -agonist diminished significantly, (p < 0.01), their increasing effect on tear production, within 4-5 days, due to subsensitization of the lacrimal gland  $\theta_2$ -receptors. All the  $\theta_2$ -blockers administered either acutely or chronically, reduced the tear production and abolished the  $\theta_2$ -agonisti receasing effect. Although no apparent differences were observed using either selective ( $\theta_1$  or  $\theta_2$ ) blockers or those with ISA, among them the  $\theta_2$  selective locker was found to be the most potent tear production inhibitor (p < 0.06). inhibitor (p< 0.06).

Innuoror (p< 0.00). **Conclusion:** The rabbit lacrimal gland (probably acinar cells) carries  $B_2$ -receptors which are involved in tear production (increase by  $B_2$ -agonists and inhibition by 8-blockers). These receptors develop subsensitisation, due to chronic 8-agonists administration, within 4-5 days. Our conclusions might explain the inexistance of any chincally significant tears increasing effect among the chronic  $B_2$ -agonists users and the dry-eye symptoms observed in patients under 8-blockers treatment treatment.