

International Symposium for Therapy of Ocular Motility and Related Visual Disturbances

Henry J. Kaminski, MD, and R. John Leigh, MD

A symposium dedicated to the emerging field of therapeutics of ocular motility disorders was held on November 15th and 16th at Case Western Reserve University in Cleveland, Ohio. Abnormal eye movements are of general interest to neurologists because of their diagnostic value, and the literature in this field has burgeoned over the past quarter century. In contrast, interest in treating the visual consequences of abnormal eye movements has been mainly restricted to management of diplopia, which has been the province of orbital surgeons. Bender¹ was among the first to define visual complaints associated with abnormal eye movements and draw attention to the complaint of oscillopsia—illusory motion of the seen world—that is reported by some patients with nystagmus. Recent research has delineated the visual requirements that eye movements must satisfy: proper alignment to allow binocular single vision and relative stability of the line of sight for the image to appear clear and still.² Patients whose abnormal eye movements disrupt single, clear vision do consult neurologists and ophthalmologists, but these clinicians often complain, with justification, that there is no organized body of knowledge to consult with regards to treatment. For example, standard neuro-ophthalmology texts have little to say about treatment for eye movement abnormalities. In fact, there are numerous case reports of patients whose abnormal eye movements have been helped by this or that treatment, but there have been few controlled clinical trials to evaluate such measures.³ Another major deficiency is that treatments have largely been empirical, and there is great need to organize basic knowledge about normal and abnormal gaze control, so that it can be used to guide therapeutic efforts.⁴ It was against this background, and a local interest in eye movements fostered by Dr. Robert B. Daroff, that the conference was organized. Twenty-four investigators, with expertise in both basic science and clinical issues, contributed to this symposium, which addressed both central and peripheral disorders of the control of eye movements, and their visual effects.

Basic mechanisms for normal and abnormal gaze control and effects on vision. Dr. Jean Büttner-Ennever of Ludwig-Maximilians University of Munich opened the meeting by reviewing current *neuroanatomic concepts* related to the control of eye movements.⁴ Of especial relevance to nystagmus are her studies defining the cell groups of the paramedian tracts (PMT), which lie scattered along the midline fiber tracts in the pons and medulla, close to the medial longitudinal fasciculus.^{5,6} The PMT cell groups are unknown to most neurologists but are extraordinary because they receive inputs from all structures that project to oculomotor neurons. Thus, they could function by “monitoring” premotor signals. The PMT cell groups project solely to the cerebellar flocculus and ventral paraflocculus.^{5,6} This part of the vestibulocerebellum is known to be important for responding to “retinal slip” information, but if the cerebellum is to behave as a “repair shop” that ensures eye movements meet visual needs, then it also needs to monitor ocular motor commands. The PMT cell groups may play a key role in this regard, and, if so, it follows that disruption of their projections by disease may deprive the cerebellum of essential information, leading to instability of gaze.⁷

Dr. Ulrich Büttner, also of Ludwig-Maximilians University, presented an update on the *pharmacology of the vestibular and ocular motor systems*, an area that has grown rapidly over the past 10 years.⁸⁻¹⁰ One problem posed by this research is that although many neurotransmitters and neuromodulators have been identified within ocular motor structures, the functional significance of most of these molecules remains unclear. One approach to clarify their roles in the control of gaze has been to study the behavioral effects that follow pharmacologic inactivation by microinjection into specific sites in the brainstem and cerebellum. In this regard, the studies by Dr. Büttner et al.¹¹ were pivotal in demonstrating the importance of GABA in the control of gaze. They, and others,¹² targeted the nucleus prepositus hypoglossi - medial vestibular nu-

Symposium was held at Case Western Reserve University, Cleveland, Ohio, November 15-16th, 1996.

From the Department of Neurology, Veterans Affairs Medical Center and University Hospitals of Cleveland, Case Western Reserve University School of Medicine, Cleveland, OH.

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Symposium On Ocular Therapy Volume 4

**Frederick T. Fraunfelder, Frederick W.
Fraunfelder, Wiley A. Chambers**



Symposium On Ocular Therapy Volume 4:

Clinical Ocular Toxicology E-Book Frederick T. Fraunfelder, Frederick W. Fraunfelder, Wiley A. Chambers, 2008-06-12

Written by international authorities in ocular toxicology including the Founder of The National Registry of Drug Induced Side Effects and its current Director this essential resource provides the clinically relevant information you need to effectively diagnose and manage herbal chemical and drug related ocular problems Comprehensive coverage of all drugs generic and trade drug names primary uses ocular and systemic side effects and clinical significance make this book like its best selling predecessor Drug Induced Ocular Side Effects the ideal reference for quick on the spot consultation Leaders in the field provide need to know information on all aspects of ocular toxicology all in one concise reference Data from the National Registry of Drug Induced Ocular Side Effects Casey Eye Institute Portland OR and the World Health Organization Uppsala Sweden help you recognize and avoid drug induced ocular side effects A highly templated format makes retrieval of essential knowledge quick and easy A wealth of full color photographs provide vivid visual diagnostic guidance The latest information on approved medications helps you stay up to date and provide state of the art care Extensive coverage of principles of therapy ocular drug delivery methods to evaluate drug induced visual side effects and the role of electrophysiology and psychophysics gives you the knowledge you need to manage any challenge in ocular toxicology Authoritative guidance on ocular drugs and their use in pregnancy helps you safely manage the unique needs of these patients The inclusion of the WHO classification system helps you determine whether a particular side effect is certain probable or likely to occur

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1969 **Pharmacology of the**

Eye M.L. Sears, 2012-12-06 Roots of the theory and practice of ocular pharmacology may be traced to the ancient Mesopotamian code of Hammurabi and then to several papyri reflecting the clinical interests of the Egyptians The evolution of its art and science was irregularly paced until the nineteenth century when Kohler in 1884 proved the anesthetic effect of cocaine on the cornea and when Fraser Laquer Schmiedeberg Meyer and others studied the pharmacology of the autonomic nervous system by way of observations of the pupil Advances in the past few decades have been nothing short of explosive How can the student physician or basic research scientist stay in touch with these electrifying studies To help with the answer to this question the authors set as their goal the development of increased understanding so that the student research scientist and ophthalmologist can cope with the latest discoveries The authors want to narrow what appears to be an ever increasing gap between basic science and ophthalmology The basic aspects of pharmacology have been presented in light of the natural physiology In this regard while distinctions among endogenous mechanisms drug effects and the pathogenesis of disease are to be separately recognized appreciation must be given to the concept that both the desirable and unwanted manifestations or functions caused by either disease or drugs must very often represent a quantitative change in normal metabolic pathways *The Human Lens* Katherine Elliott, David W. FitzSimons, 2009-09-16 The Novartis

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First International Congress on Cataract Surgery Florence, 1978 J. François, I. Esente, E. Maumenee, 2012-12-06

Numerous drugs administered either generally or locally have shown a cataractogenic action From a pathogenic point of view a distinction must be made between drugs which modify the transparency of the lens due to accumulation of mercuric silver gold salts etc from those influencing its metabolism Among the latter Triparanol antimitotic drugs various phenothiazinic derivatives corticosteroids and certain miotics cause the most significant damage It is necessary to indicate the most frequent reports which evidence a relationship between a prolonged oestroprogestinic therapy and alterations of the lens transparency The authors also indicate pathogenic mechanisms which probably cause iatrogenic cataracts

REFERENCES Apponi G Rinaldi E De Simone S Cataratta monolaterale dopo iniezione endo carotidea di 2 3 5 Trisetilenimino 1 4 benzochinone Trenimon Bayer Ann Ottol 90 224 1964 Baron J B Morel P Rivollan Y Soullairac A Incidences ophtalmologiques du traitement prolonge par la chlorpromazine associee ou non li des troubles cutanes Aggressologie 9 2 293 1968 Bryk E Generalized argyrosis with involvement of lenses Klin Oczna 26 217 1956 Conel E B Kelman C D Ophthalmologic findings with oral contraceptives Obstet Gynec 31 456 1968 Conklin Upton Christenberry MC Donald Citato da Duke Elder Radiat Res 19 156 1963 Davidson S I Reported adverse effects of oral contraceptives on the eye Trans Ophthal Soc U K 91 561 1971 De Long S L Incidence and significance of chlorpromazine induced eye changes Dis Nerv Syst 29 3 Suppl 19 1968 *TOXICOLOGY OF THE EYE* W. Morton Grant, Joel S. Schuman, 1993-01-01 The purpose of this book is to present a synopsis of what is known about substances that have toxic properties injurious to the eyes disturbing to vision or affecting eyes in other unwanted ways The coverage is truly comprehensive encompassing local and systemic acute and chronic human and veterinary toxicology of the eye The text summarizes mechanisms of injury treatments and other relevant knowledge for more than 3000 alphabetized substances essentially all those on which public information is available Also described are systemic side effects of ophthalmologic drugs treatment of chemical burns of the eyes and testing methods and species specificity for toxic effects on the eyes Facilitating access to this prodigious amount of information is a large index that cross references substances and effects including numerous synonyms This monumental work is a truly definitive text and a highly useful reference book that should be available to every ophthalmologist emergency room and medical library **Physicians' Desk Reference for Ophthalmology**, 1991 **Drug-Induced Ocular Side**

Effects: Clinical Ocular Toxicology E-Book Frederick T. Fraunfelder, Frederick W. Fraunfelder, Wiley A.

Chambers, 2014-09-19 Ideal for ophthalmologists optometrists and busy clinicians Drug Induced Ocular Side Effects provides the clinically relevant information you need to diagnose and manage chemical and drug related ocular problems An easily

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 Teoh,Mohd Tafir Mustaffa,2016-09-29 The proceeding is a collection of research papers presented at the 9th International
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