



Review

Behavioral and Neurophysiological Aspects of Inhibition—The Effects of Acute Cardiovascular Exercise

Oron Levin ^{1,2}, Yael Netz ^{3,*} and Gal Ziv ³ 

¹ Movement Control and Neuroplasticity Research Group, Department of Kinesiology, KU Leuven, 3000 Heverlee, Belgium; oron.levin@kuleuven.be

² Department of Health Promotion and Rehabilitation, Lithuanian Sports University, LT-44221 Kaunas, Lithuania

³ The Academic College at Wingate, Netanya 4290200, Israel; galziv@yahoo.com

* Correspondence: neyael@wincol.ac.il; Tel.: +972-998639314

Abstract: This review summarizes behavioral and neurophysiological aspects of inhibitory control affected by a single bout of cardiovascular exercise. The review also examines the effect of a single bout of cardiovascular exercise on these processes in young adults with a focus on the functioning of prefrontal pathways (including the left dorsolateral prefrontal cortex (DLPFC) and elements of the prefrontal-basal ganglia pathways). Finally, the review offers an overview on the potential effects of cardiovascular exercise on GABA-ergic and glutamatergic neurotransmission in the adult brain and propose mechanisms or processes that may mediate these effects. The main findings show that a single bout of cardiovascular exercise can enhance inhibitory control. In addition, acute exercise appears to facilitate activation of prefrontal brain regions that regulate excitatory and inhibitory pathways (specifically but not exclusively the prefrontal-basal-ganglia pathways) which appear to be impaired in older age. Based on the reviewed studies, we suggest that future work examine the beneficial effects of exercise on the inhibitory networks in the aging brain.

Keywords: motor inhibition; cognitive inhibition; physical activity; exercise; GABA; glutamate; prefrontal-basal-ganglia pathways



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1. Introduction

Inhibition plays an important role in the control of many cognitive and motor functions [1,2]. On a conceptual level, inhibition can be viewed as a process that limits the spreading of neural activity to or from nearby regions that are not relevant to the task at hand [3], suppresses prepotent responses, and allows withdrawing, reprogramming, or termination of voluntary movements [4–6] or downregulates attentional processes directed toward irrelevant stimuli [7,8]. At the cortical level, inhibition is largely mediated via activation of gamma-aminobutyric acid (GABA) receptors. GABA is a principal inhibitory neurotransmitter in the brain tissue of mammals with a rich structural diversity of receptors and a dense representation of GABA-ergic interneurons in the neocortex (e.g., [9]). For example, GABA-ergic activity in the primary motor cortex (M1) has been reported to play a prominent role in the fine tuning of corticospinal excitability during movement initiation and movement withdrawal [2] or during movement preparation [5,10]. Deficiencies or abnormalities in GABA-ergic mediated neural mediated inhibition in M1 have been documented in many cognitive and/or movement disorders, particularly in those diseases where excess or undesired movements emerge such as dystonia [11,12] (for a review, see [13]). Finally, from a system functionality point of view, inhibition is mediated primarily by a widespread prefrontal network including the right inferior frontal gyrus (rIFG), the pre-supplementary motor area (preSMA), the left-dorsolateral prefrontal cortex (DLPFC), and the basal ganglia [14–17] (for reviews, see [18–20]).

Inhibitory processes can be classified as reactive (i.e., cessation of a response that is already in progress) or proactive (i.e., inhibitory control mechanisms engaged prior to

Neurophysiological Behavioral Aspects

George G. Somjen



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Neurophysiological and Behavioral Aspects of Psychotropic Drugs American College of Neuropsychopharmacology, 1969 Epilepsy Bibliography 1950-1975 J. Kiffin Penry, 1976 **Indexes to the Epilepsy Accessions of the Epilepsy Information System** J. Kiffin Penry, 1978 **Neuropsychological and Behavioral Aspects of Diabetes** Clarissa S. Holmes, 2012-12-06 Behavioral medicine has blossomed as an area of systematic investigation during the past 10 20 years Throughout its steady growth there have been increasing interest and specialization in the study of neuro psychological and behavioral aspects of diabetes This book attempts to capture and report exciting new developments in the study of both insulin dependent Type I and non insulin dependent Type II diabetes mellitus Accordingly it is divided into two major sections Physiological aspects of each disease which differ significantly in pathophysiology and course are discussed in separate medical over views that introduce each major section These overviews are written by Drs Tsalikian and Zimmerman leading medical researchers in insulin and non insulin dependent diabetes respectively Each section also contains chapters describing neuropsychological and cognitive disease correlates psychosocial patterns of adjustment and treatment adherence issues Psychological aspects of insulin dependent diabetes have been studied more extensively than non insulin dependent diabetes perhaps because it is more often associated with graver medical complications Therefore there is a larger body of research to review and the first section has been divided into chapters on cognitive disease sequelae in populations of children and adults separately In his chapter Dr Ryan discusses developmental factors related to the unique sensitivity of the brain to metabolic derangement Dr Holmes reviews studies of adults with diabetes and the cognitive correlates of both acute and chronic blood glucose disruption Developmental disease issues are further covered in Dr Eeg And Behavior Gilbert H. Glaser, 1963 **Biological Prototypes and Synthetic Systems** E. E. Bernard, 2012-12-06 When the present symposium was first conceived it was decided that more emphasis be given to contributions from biological laboratories than has typically appeared in previous bionics meetings Accordingly most of the invited speakers are biologists in the broad sense of representing some area of the life sciences Likewise many of the submitted papers eventually chosen by the technical committee were from the life sciences rather than the physical sciences or mathematics In this way it was hoped that a greater direct interest in the technological problems of bionics might be stimulated among biologists upon whose work much of the success of bionics necessarily lies Because of the wide interdisciplinary span of the papers it was necessary to impose some artificial organization upon them specifically for continuity in the transactions We elected to put the biological papers first followed by those which deal with reasonably specific models and reserve the last those papers reporting models which are more general in nature The editorial function was kept to a minimum with no major alterations of content and few of style being exercised Several of the papers delivered at the symposium required a longer format for clarity and are included here in expanded versions Assistance in the

preparation of this volume was received from the National Institute of Neurologic Diseases and Blindness Grant number B 3896 Elements of Neurophysiology Sidney Ochs,1965 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1973 **Neurophysiological Approaches to Higher Brain Functions** Edward V. Evarts,Yoshikazu Shinoda,Steven P. Wise,1984 **Contemporary Clinical Neurophysiology** William Albert Cobb,Hans van Duijn,1978 *Alcohol, Drugs, and Driving. Final Report. Proceedings* M. W. Perrine (ed),1974 **Handbook of Physiology: Neurophysiology. (3 v.)** John Field,1968 Section 1 Neurophysiology section 2 Circulation section 3 Respiration section 4 Adaptation to the environment section 5 Adipose tissue section 6 Alimentary canal Brain, Behavior and Evolution ,1983 *Extended Reality* Lucio Tommaso De Paolis,Pasquale Arpaia,Marco Sacco,2024-09-10 The four volume proceedings set LNCS 15027 15028 15029 and 15030 constitutes the refereed proceedings of the International Conference on Extended Reality XR Salento 2024 held in Lecce Italy during September 4 7 2024 The 63 full papers and 50 short papers included in these proceedings were carefully reviewed and selected from 147 submissions They were organized in the following topical sections Extended Reality Artificial Intelligence Extended Reality and Serious Games in Medicine Extended Reality in Medicine and Rehabilitation Extended Reality in Industry Extended Reality in Cultural Heritage Extended Reality Tools for Virtual Restauration Extended Reality and Artificial Intelligence in Digital Humanities Extended Reality in Learning and Extended Reality Sense of Presence and Education of Behaviour **Research Awards Index** , Medical Books and Serials in Print ,1984 *Neurophysiology* ,1960 International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 **Mental Impairment in the Aged** Mortimer Powell Lawton,Fay G. Lawton,1965 *Neurophysiology* George G. Somjen,1983

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