

Neurochemical Studies of Narcosis: A Comparison Between the Effects of Nitrous Oxide and Hyperbaric Nitrogen on the Dopaminergic Nigro-Striatal Pathway

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Under gas narcosis is a neurological syndrome referring several noxious effects of gases. Nitrogen narcosis represents the major cause of performance decrease especially during the depth range of 100 to 200 m. In 1979, Boulton et al. described the effects of narcosis on dopaminergic functions in the nigro-striatal pathway, owing to its involvement in psychomotor disorders. The aim of this study is to compare, in the Ringer-Dawley rats, changes in neurochemical concentrations of Dopamine and its metabolites: Dihydroxyphenylacetic Acid (DOPAC) and Normetanephrine (Norepinephrine) under a normobaric mixture (70% N₂ and 30% of Nitrous Oxide (N₂O)) or one hand, and under 0.8 megabars of Nitrox (Nitrogen-Oxygen mixture) enriched in the other hand. In fact, of these two conditions, the lighter, hyperbaric mixture would allow us to evaluate psychomotor functions without any psychomotor effect. The first emergence of Dopamine and catecholamines occurs under 40% of N₂O. Dopamine decreases by 45% and is accompanied by a DOPAC diminution of 70% while HVA, catecholamines, and DA decrease under 0.8 MPa. These decreases being a greater amplitude. The Dopamine reduction without 0.8 MPa of Nitrox are related to a decrease induced by 50% of N₂O (DOPAC diminution by 70%).

KEY WORDS: Narcosis; Nitrous oxide; nitrox; monoamine; dopamine; norepinephrine.

INTRODUCTION

Driven under oxygen-enriched air produce severe psychomotor troubles grouped in a syndrome called narcosis. This phenomenon occurs between 20 m and 600 m in depth depending on the subject. Narcosis is characterized by euphoria, hallucinations, loss of memory, decrease in psychomotor performances and, ultimately, by loss of consciousness.

At the beginning, narcosis appeared with Nitrous Oxide (Nitrox). Oxygen mixture. Boulton et al. in 1979 (1).

For the first time, correlated the psychomotor disorders observed with nitrogen partial pressure and called this syndrome, "Nitrogen Narcosis". In addition, this phenomenon appeared with all other inert gases (2). The importance of the narcotic syndrome is related to the narcotic potency of each gas. Nitrogen is the less narcotic, while N₂O is narcotic at atmospheric pressure. This neurochemical effect of the narcotic gases is counterbalanced by the hyperbaric pressure effect. This phenomenon is called "pressure-narcosis reversal effect", several of gas mixtures have been studied which allow drivers to go deeper (700 m).

Although, the essential cause of narcosis, linked to the pharmacological effect of gas inhaled, was discovered in the striatum, the specific mechanism and, consequently, the source of psychomotor function disorders, Nitrox.

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Studies Of Narcosis

**Columbia University. Department of
Physiology**

Studies Of Narcosis:

Studies of Narcosis R.L. Lipnick, 2013-11-11 Charles Ernest Overton's 1901 monograph *Studien über die Narkose* has become a scientific classic in a number of different fields. This book represents the first English translation and in fact the first translation into any other language of the original German work. In addition to the edited translation this volume contains introductory chapters by Keith Miller, Peter Winter, and Leonard Firestone, and myself. As editor I have attempted above all else to ensure that the translation faithfully represents Overton's ideas and data while making the material readily understandable to the modern scientific reader. This has frequently required that extremely long sentences common in turn of the century German but considered cumbersome today be simplified into two or even three sentences. In addition I have paid particular attention to the correct translation of scientific terms and I accept complete responsibility for any inaccuracies in this area. Overton's original contents list included headings and subheadings but only a fraction of these appear in the original text. For the sake of clarity they have all been included in the body of the translated work. Also included is an index containing all chemicals mentioned in the book along with their Chemical Abstracts System Registry Numbers for unambiguous identification, a complete list of Overton's publications (Appendix B) and a list of all biographical articles about Overton and articles dealing specifically with analyses of his data (Appendix C).

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