

NO-A188 789

TREATMENT OF CENTRAL NERVOUS SYSTEM (CNS) ISCHEMIA WITH 1/1
A PROSTAGLANDIN DERIVATIVE PGBX(U) UNIFORMED SERVICES
UNIV OF THE HEALTH SCIENCES BETHESDA MD G FEUERSTEIN

UNCLASSIFIED

26 NOV 86

F/G 6/15

NL





MICROCOPY RESOLUTION TEST CHART
 NS-1963-A

REPORT DOCUMENTATION PAGE

AD-A188 789

DTIC
ELECTED
DEC 11 1987
SH

2b. DECLASSIFICATION / DOWNGRADING SCHEDULE NA		1b. RESTRICTIVE MARKINGS NA	
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		3. DISTRIBUTION / AVAILABILITY OF REPORT Distribution Unlimited	
6a. NAME OF PERFORMING ORGANIZATION USUHS		5. MONITORING ORGANIZATION REPORT NUMBER(S) NA	
6b. OFFICE SYMBOL (If applicable)		7a. NAME OF MONITORING ORGANIZATION Office of Naval Research	
6c. ADDRESS (City, State, and ZIP Code) Uniformed Services University of the Health Sciences 4301 Jones Bridge Rd., Bethesda, MD 20814-4799		7b. ADDRESS (City, State, and ZIP Code) 800 N. Quincy Street Arlington, VA 22217-5000	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION Office of Naval Research		8b. OFFICE SYMBOL (If applicable) ONR	
8c. ADDRESS (City, State, and ZIP Code) 800 N. Quincy Street Arlington, VA 22217-5000		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO. 61153N	TASK NO. RR04108
		WORK UNIT NR-4414400	ACCESSION NO.
11. TITLE (Include Security Classification) TREATMENT OF CENTRAL NERVOUS SYSTEM (CNS) ISCHEMIA WITH A PROSTAGLANDIN DERIVATIVE, PGB _x			
12. PERSONAL AUTHOR(S) G. FEUERSTEIN, M.D.			
13a. TYPE OF REPORT ANNUAL	13b. TIME COVERED FROM 1-1-86 TO 1-12-86	14. DATE OF REPORT (Year, Month, Day) November 26, 1986	15. PAGE COUNT 1
16. SUPPLEMENTARY NOTATION Names of authors - Giora Feuerstein, M.D.			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	
		Key Words: spinal cord ischemia; PGB _x , motor function	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) The effect of PGB _x on motor function was studied in a rabbit spinal cord ischemia model. Conscious rabbits were exposed to lumbar spinal cord ischemia for 25 min and the motor/neurological scores followed for 48 hrs. PGB (provided by Dr. Devlin, Philadelphia, PA) was administered in 6 doses of 2 mg/kg each, starting 1 hr after reperfusion. Motor/neurological function of hindlimbs was scored from 0-5 (0 = complete paralysis; 5 = normal) each hr for 12 hr and at 24 and 48 hr. In the first study, (n = 15), a PGB - sodium salt batch was used and enhanced recovery of motor functions was observed; in the second study (n = 15) PGB acid form was used without beneficial outcome; in the third study (n = 14) a new PGB sodium salt batch was used and no significant effect on recovery of motor functions was observed. Since the exact composition of each PGB batch is not known, we cannot exclude the possibility that the variability between the experiments is the result of quantitative and qualitative difference in the oligomer composition of PGB _x . We strongly feel that continuation of this project would be only with specific active oligomers, e.g., PGB ₁ - trimer. special			
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION (U)	
22a. NAME OF RESPONSIBLE INDIVIDUAL Dr. J.A. Majde		22b. TELEPHONE (Include Area Code) (202) 696-4055	
		22c. OFFICE SYMBOL ONR	

DD FORM 1473, 84 MAR
DISTRIBUTION STATEMENT A

83 APR edition may be used until exhausted.
All other editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE

Approved for public release;
Distribution Unlimited

END

DATE

FILMD

3-88

DTIC