

# Fibrinolysis in the central nervous system

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THE FREQUENT RESOLUTION of subarachnoid clots and fibrinous meningitis without the development of meningeal fibrosis or communicating hydrocephalus and the rapid liquefaction of subdural clots suggest that the spinal fluid or the meninges or both possess a competent fibrinolytic mechanism. Although numerous recent investigations<sup>1-3</sup> have been performed to study the effects of cerebrospinal fluid on the body's coagulation mechanism, surprisingly few reports are available on the fibrinolytic activity of the spinal fluid and the meninges.

Roberts and Astrup,<sup>4</sup> in 1957, and Moltke,<sup>5</sup> in 1958, showed that the dura and pia of various animals contained considerable fibrinolytic activator activity. In 1958, Albrechtsen and associates<sup>6</sup> found that human cerebrospinal fluid has incomplete fibrinolytic activator activity. The authors are not aware of other reports of fibrinolytic activity in the central nervous system.

A number of drugs capable of enhancing or depressing systemic fibrinolytic activity have become available in recent years. These drugs have been useful in selected patients with systemic fibrinolytic abnormalities, but their effects on central nervous system fibrinolysis have not been clearly demonstrated.

This study was performed to further define the fibrinolytic activity of the spinal fluid and the meninges and to ascertain the possibility of altering this activity by the systemic administration of fibrinolytic enhancing or inhibiting drugs.

## MATERIALS AND METHODS

Fibrinolytic activity was assayed by a modification of the fibrin plate method of Astrup and Mullertz.<sup>7</sup> A homogenous layer of fibrin was formed in a petri dish by the addition of 100 units (National Institutes of Health units) of bovine thrombin to 10 ml. of buffered bovine fibrinogen (0.4% by weight). Heated plates were prepared in the same manner and then heated to 80° C. for fifteen minutes to inactivate any plasminogen accompanying the fibrinogen or thrombin. Streptokinase fibrin plates, heated and nonheated, were prepared by adding 100 units of streptokinase to the fibrinogen solution before thrombin precipitation. The test samples were incubated on both heated and nonheated fibrin plates and streptokinase fibrin plates for eighteen hours at 37° C. The resulting zones of lysis were measured in their two greatest diameters. The product of these measurements represented the fibrinolytic activity of the sample.

Cerebrospinal fluid and peripheral blood samples were obtained from 20 patients during lumbar myelography. Spinal fluid, 0.05 ml. aliquots, was placed on heated, nonheated, and streptokinase fibrin plates and incubated as described above. A euglobulin fraction was prepared from each blood sample by adding

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# Fibrinolysis And The Central Nervous System

**Davut Tovi**



## **Fibrinolysis And The Central Nervous System:**

*Fibrinolysis and the Central Nervous System* Raymond Sawaya,1990      *Fibrinolysis, Thrombolysis, and Blood Clotting: a Bibliography* ,1974      **Fibrinolysis in Disease - The Malignant Process, Interventions in Thrombogenic**

**Mechanisms, and Novel Treatment Modalities, Volume 2** Pia Glas-Greenwalt,2019-11-11 Fibrinolysis in Disease reviews the state of the art of basic and clinical aspects of the fibrinolytic enzyme system The text authored by outstanding and internationally known investigators is presented in two books The Malignant Process Interventions in Thrombogenic Mechanisms and Novel Treatment Modalities discusses the molecular biology of the system s key components and their fundamental roles in a variety of thrombotic and metabolic disorders Molecular and Hemovascular Aspects of Fybrinolysis presents the latest findings and concepts of the association between plasminogen activator u PA overexpression and abnormal growth regulation in a variety of solid tumors and in leukemia One chapter deals with various successful interventions in thrombogenic mechanisms ranging from exercise and diet to anticoagulants and direct and indirect thrombolytic agents It concludes with a projection of exciting novel treatment modalities in thrombotic and malignant diseases      Fibrinolysis in Disease - The Malignant Process, Interventions in Thrombogenic Mechanisms, and Novel Treatment Modalities Pia Glas-Greenwalt,1995-06-12 Fibrinolysis in Disease reviews the state of the art of basic and clinical aspects of the fibrinolytic enzyme system The text authored by outstanding and internationally known investigators is presented in two books The Malignant Process Interventions in Thrombogenic Mechanisms and Novel Treatment Modalities discusses the molecular biology of the system s key components and their fundamental roles in a variety of thrombotic and metabolic disorders Molecular and Hemovascular Aspects of Fybrinolysis presents the latest findings and concepts of the association between plasminogen activator u PA overexpression and abnormal growth regulation in a variety of solid tumors and in leukemia One chapter deals with various successful interventions in thrombogenic mechanisms ranging from exercise and diet to anticoagulants and direct and indirect thrombolytic agents It concludes with a projection of exciting novel treatment modalities in thrombotic and malignant diseases      *Studies on Fibrinolysis in the Central Nervous System* Davut Tovi,1972      **Hemostasis and Thrombosis** ,1966 Monthly with annual cumulation Recurring bibliography from MEDLARS data base Index medicus format Entries arranged under subject review and author sections Subject author indexes

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**Cerebrovascular Bibliography** ,1976 [The Role of the Plasminogen Activating System in Neurobiology](#) Robert L. Medcalf,Daniel A. Lawrence,2017-01-13 This ebook contains a series of original publications reviews and mini reviews by leaders in the field that address the growing importance of the plasminogen activating system in neurobiology The articles included cover the role of the plasminogen activating system as a key modulator of blood brain barrier permeability and the implications of this in traumatic brain injury and in ischemic stroke State of the Art manuscripts are also included that address the regulatory mechanisms that control this important process **Fibrinolysis** ,2025-06-18 Fibrinolysis the process of breaking down the fibrin network was reported in 1925 by Fischer who demonstrated that explants of virally induced chicken tumors rapidly caused lysis of plasma clots whereas explants of normal tissue did not This observation provided evidence for the importance of fibrinolysis in cancer Then in 1933 Tillett and Garner observed the liquefaction of a fibrin clot by the plasma of many patients who had recovered from acute hemolytic streptococcal infections These investigators showed that broth cultures of hemolytic streptococci derived from patients could rapidly liquefy normal human fibrin clots This suggested that fibrinolysis might play a key role in homeostasis although its regulation mechanism was unknown Fibrinolysis is now known to be regulated by four components namely the plasminogen activators that function to convert plasminogen into plasmin to initiate fibrin degradation such as tissue type and urokinase type plasminogen activators the plasminogen activator inhibitors that block the plasminogen activators the plasmin inhibitors such as alpha2 antiplasmin and finally the enzymes that block plasminogen binding sites on fibrin or the endothelial cell surface such as the thrombin activatable fibrinolysis inhibitor Originally fibrinolysis was thought to be only responsible for promoting vascular patency the failure of which resulted in myocardial infarction and stroke However recent studies from multiple laboratories have identified the key role of fibrinolysis in a host of physiological and pathophysiological processes Most recently fibrinolysis has been suggested to play a role in forming the premetastatic niche a hospitable site for future metastases in distal tissues which is formed by secretions from the primary tumor before the departure of metastatic cancer cells This book explores the multifaceted and intriguing role of fibrinolysis in several processes including cancer cardiovascular disease neuroinflammation and infection The latest advances in fibrinolytic therapies are also discussed which illustrates the complexity and depth of the field

*Current Catalog* National Library of Medicine (U.S.),1991 First multi year cumulation covers six years 1965 70

**Central Nervous System Malignancies, An Issue of Hematology/Oncology Clinics of North America** Jill

Lacy,Joachim M. Baehring,2012-08-28 Topics include Neoplastic Meningitis and Epidural Metastases Evaluation and Management Management of Brain Metastases Surgery Radiation or Both Meningiomas Nerve Sheath Tumors Pituitary Tumors Diagnosis and Treatment Medulloblastoma Primitive Neuroectodermal Tumor and Germ Cell Tumors The Uncommon but Potentially Curable Primary Brain Tumors Primary CNS Lymphoma Overview of Current Treatment Strategies Anaplastic Gliomas Radiation Chemotherapy or Both Low Grade Gliomas When and How to Treat Glioblastoma Multiforme Overview of Current Treatment and Future Perspectives     **Nathan and Oski's Hematology and Oncology of Infancy and Childhood E-Book**

Stuart H. Orkin,David G. Nathan,David Ginsburg,A. Thomas Look,David E. Fisher,Samuel Lux,2014-11-14 Written by the leading names in pediatric oncology and hematology Nathan and Oski s Hematology and Oncology of Infancy and Childhood offers you the essential tools you need to overcome the unique challenges and complexities of childhood cancers and hematologic disorders Meticulously updated this exciting full color set brings together the pathophysiology of disease with detailed clinical guidance to provide you with the most comprehensive authoritative up to date information for diagnosing and treating children Form a definitive diagnosis and create the best treatment plans possible with comprehensive coverage of all pediatric cancers including less common tumors as well as all hematologic disorders including newly recognized ones Develop a thorough understanding of the underlying science of diseases through summaries of relevant pathophysiology balanced with clear practical clinical guidance Nathan and Oski s is the only comprehensive product on the market that relates pathophysiology in such depth to hematologic and oncologic diseases affecting children Quickly and effortlessly access the key information you need with the help of a consistent organization from chapter to chapter and from volume to volume Stay at the forefront of your field thanks to new and revised chapters covering topics such as paroxysmal nocturnal hemoglobinuria lysosomal storage diseases childhood genetic predisposition to cancer and oncology informatics Learn about the latest breakthroughs in diagnosis and management making this the most complete guide in pediatric hematology and oncology Discover the latest in focused molecularly targeted therapies derived from the exponential growth of knowledge about basic biology and genetics underlying the field Rely on it anytime anywhere Access the full text images and more at Expert Consult     **Neurobiology of Cerebrospinal Fluid 1** James H.

Wood,2013-06-29 Physiologic compartmentalization effectively isolates the central nervous system from the rest of the body This isolation not only provides protection of its delicate function from aberrant peripheral influences but also impedes its diagnostic evaluation Cerebro spinal fluid CSF bathes the brain and spinal cord is in dynamic equilibrium with its extracellular fluid and tends to reflect the state of health and activity of the central nervous system CSF examination is the most direct and popular method of assessing the central chemical and cellular environment in the living patient or mammal The purpose of this multidisciplinary reference text is to provide the sophisticated knowledge of CSF physiology and pathology necessary for the meaningful interpretation of data obtained by various types of CSF analysis The methodology for

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