



Article

Association of Metallic and Nonmetallic Elements with Fibrin Clot Properties and Ischemic Stroke

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Abstract: Objectives-Metallic elements and fibrin clot properties have been linked to stroke. We examined metallic and nonmetallic elements, fibrin clot lysis time (CLT), and maximum absorbance (Abs_{man}) in relation to ischemic stroke. Design—A case-control study of ischemic stroke patients vs. healthy individuals. Subjects and Methods--Plasma and serum were collected from 260 ischemic stroke patients (45.0% women; age, 68 ± 12 years) and 291 healthy controls (59.7% women; age, 50 ± 17 years). Fibrin CLT and Abs_{max} were measured using a validated turbidimetric assay. Serum elements were quantified by inductively coupled plasma mass spectrometry (ICP-MS) and optical emission spectrometry (ICP-OES). Data were analyzed by bivariate correlations and multiple or logistic regression. Results-In female stroke patients, copper, lithium, and aluminum were significantly lower compared with controls; in male stroke patients, potassium was lower, and beryllium was elevated. In female and male stroke patients, iron, zinc, nickel, calcium, magnesium, sodium, and silicon were significantly lower, while strontium was elevated. Positive correlations between fibrin clot properties and metals, observed in healthy controls, were lost in ischemic stroke patients. In multivariate regression analysis, fibrin CLT and/or Absent was associated with zinc, calcium, potassium, beryllium, and silicon in stroke patients and with sodium, potassium, beryllium, and aluminum in controls. In logistic regression analysis, stroke was independently associated with lithium, nickel, beryllium, strontium, boron, and silicon and with sodium, potassium, calcium, and aluminum but not with fibrin CLT/Abs_{max}. Conclusions-Various elements were associated with fibrin clot properties and the risk of ischemic stroke. Lithium, sodium, calcium, and aluminum abrogated the association of fibrin clot properties with ischemic stroke.

Keywords: metals; nonmetals; fibrin clot properties; ischemic stroke

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Citatione Inkolorovski, H.; Sikona, M.; Breten, E.; Perla-Kaján, J.; Uryno, O.; Wajitasa, I.; Ratmierski, R.; Frankovski, M.; Ziolo-Frankovska, A. Association of Metallic and Nonmetallic Elements with Fibrin Clot Properties and Indhemic Stroke. Liji-2024, 14, 624. https://doi.org/ 10.3090/186-14050634

Academic Editor: Teruna Stahaan

Received: 11 April 2024 Revised: 9 May 2024 Accepted: 14 May 2024 Published: 16 May 2024



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1. Introduction

Stroke is the second leading cause of morbidity and mortality in the world [1] with the overall burden increasing across the globe in both men and women of all ages [2]. Ischemic stroke causes an injury in the brain that is mediated by thrombotic or embolic events originating from a cardiac source or periphery [3]. Thrombus formation involves the generation of a fibrin mesh scaffold that involves complex interactions between components of the coagulation cascade [4]. Although traditional (hypertension, diabetes, obesity, dyslipidemia.

Properties Of Nonmetallic Fluid Elements

Igor' L. Komov, A. N. Lukashev, A. V. Koplus

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topic is treated from the beginning without assuming prior knowledge Each chapter starts with an opening section covering an application These help students to understand the relevance of the topic they are motivational and they make the text more accessible to the majority of students Concept Maps have been added which together with Summaries throughout aid understanding of main ideas and connections between topics Margin points highlight key points making the text more accessible for learning and revision Checkpoints in each chapter test students understanding and support their private study

The book delves into Properties Of Nonmetallic Fluid Elements. Properties Of Nonmetallic Fluid Elements is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Properties Of Nonmetallic Fluid Elements, encompassing both the fundamentals and more intricate discussions.

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web could anyone explain these undefined behaviors i i i i i etc i m not able to understand the output of this program using gcc main int a 10 printf d d d n a a a output 12 10 12 also please explain the order of evaluation of arguments of printf c for any positive integer n show that sum d n sigma d - Dec 28 2022

web looking at this intuitively firstly we note that sum d n sigma d sum d n n d tau d sum d n d tau n d so now we are summing the divisors d of n each divisor being counted with multiplicity tau n d so you just have to persuade yourself that this multiplicity is appropriate