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Application and risk prediction of thrombolytic therapy in cardio-cerebrovascular diseases: a review

Kexin Zhang^{1†}, Yao Jiang^{1†}, Hesong Zeng¹ and Hongling Zhu^{1*}

Abstract

Cardiocerebrovascular diseases (CVDs) are the leading cause of death worldwide, consuming huge healthcare budget. For CVD patients, the prompt assessment and appropriate administration is the crux to save life and improve prognosis. Thrombolytic therapy, as a non-invasive approach to achieve recanalization, is the basic component of CVD treatment. Still, there are risks that limits its application. The objective of this review is to give an introduction on the utilization of thrombolytic therapy in cardiocerebrovascular blockage diseases, including coronary heart disease and ischemic stroke, and to review the development in risk assessment of thrombolytic therapy, comparing the performance of traditional scales and novel artificial intelligence-based risk assessment models.

Keywords Ischemic stroke, Myocardial infarction, Machine learning, Risk assessment, Thrombolytic therapy

Introduction

Cardiocerebrovascular diseases (CVDs) are pathological conditions involving the cardiovascular system, which are the leading cause of death worldwide, and more than 80% CVD-caused deaths are due to CHD and stroke [1]. According to data from WHO, in 2019, about 17.9 million people died from CVDs, accounting for 32% of the global total. In the United States, the main type of CVDs was CHD, with a proportion of 41.3%, followed by stroke (17.2%) [2]. CHDs are the stenosis or obstruction of the coronary artery, leading to myocardial ischemia, hypoxia and even necrosis. One of the most important characteristics of CHD is atherosclerosis. (The pathogenesis of atherosclerosis is shown in Additional file 1). According

to their stability, atheromatous plaques are divided into stable plaques and unstable plaques. When the unstable plaque ruptures or erodes, subendothelial collagen, lipid core, and procoagulants like tissue factor and von Willebrand factor are exposed to the blood circulation, which rapidly promotes platelets to adhere to the vessel wall and subsequently aggregate, contributing to acute thrombosis. Then the coronary artery is completely blocked, and later the ischemia and hypoxia of the myocardium in the corresponding area emerge, resulting in myocardial infarction characterized by ST-segment elevation (STEMI), which is a serious type of acute coronary syndrome (ACS).

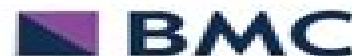
Another fatal type of CVD, stroke, is divided into hemorrhagic stroke and ischemic stroke based on its pathogenesis. Ischemic stroke is the main type of stroke, accounting for 85% of strokes. It is defined as a result of thrombosis or embolism that blocks cerebral vessels in a specific area of the brain, causing a sudden loss of blood flow to the corresponding area of the brain and leading to neurological dysfunction [3]. Unlike in situ thrombosis in ACS, plaque ruptures in extracranial cervical arteries

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Atlas of Vascular Disease Mark A. Creager, Eugene Braunwald, 2013-11-11 The 2nd edition reviews important vascular disorders encountered in clinical practice including aortic aneurysms and dissection peripheral arterial occlusive disease and lymphedema This book beautifully illustrates recent advances in vascular biology and technology including enhanced resolution ultrasonography and less invasive therapeutic strategies are just two of many updates Includes full color images depicting surgical techniques X rays and first quality photographs relating to vascular disease and its counterparts

Complications in Surgery Michael W. Mulholland, Gerard M. Doherty, 2006 This volume offers authoritative evidence based recommendations for preventing and managing complications in all current general surgery procedures The opening sections discuss institutional risk management issues and risks common to all operations such as wound healing problems infection shock and complications in immunosuppressed patients Subsequent sections focus on complications of specific procedures in thoracic vascular gastric endocrine breast and oncologic surgery as well as organ transplantation and pediatric surgery For each procedure the authors discuss surgical goals expected outcomes preoperative identification of risk factors intraoperative technique and postoperative risk Numerous decision making algorithms drawings of techniques and tables complement the text

Cerebrovascular Bibliography, 1975

Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers

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