

Current concepts in migraine and their relevance to pregnancy

Shazia K. Afridi 

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Abstract

The prevalence of migraine in women of childbearing age is high, estimated at 24%. Migraine management during pregnancy and lactation can be challenging. Our understanding of the way in which medications affect the unborn fetus is still incomplete and the evidence is constantly changing with more recent emphasis on longitudinal studies and childhood development. The aim of this article is to describe the relationship between migraine and pregnancy and review the current evidence on treatment options in pregnancy and lactation.

Keywords

Migraine, pregnancy

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Migraine is estimated to affect 959m people worldwide. In women of childbearing age, the prevalence is highest at 24%.¹ It has a female preponderance of 3:1. This is thought to be due to the influence of female hormones as before puberty, both sexes are affected equally.

Pathophysiology of migraine

Functional imaging studies have provided evidence that there is disordered sensory processing in migraine with key involvement of deep brain structures; thalamus, hypothalamus and brainstem.^{2,4} The current thinking is that there is activation of the trigemino-vascular system with efferent fibres to the dura mater and cranial blood vessels, and the afferent projections from these structures to the trigemino-cervical complex (TCC) at the cervicomedullary junction.⁵

Trigeminal sensory nerve fibres contain neuropeptides including calcitonin gene-related peptide (CGRP). This has also been found in the brainstem. In humans, CGRP has been shown to be elevated during the headache phase of migraine and levels normalise following triptans.⁶

Sensory afferents from the trigeminal system and cervical input synapse at the TCC via the trigeminal ganglion (TG) and cervical ganglion (CG). The ascending pathway is shown in blue and the descending modulatory pathway in red (see Figure 1). There is parasympathetic output via the sphenopalatine ganglion (SPG).

The effect of pregnancy on migraine

Migraine frequency and severity are thought to be affected by fluctuations of female hormones, in particular, oestrogen levels. This explains why there is often a menstrual trigger. Consequently, migraine has been reported to improve by the end of the third trimester in 67–89% of women^{7,8} with a smaller prospective study documenting a 79% reduction.⁹ This may also be due to an increase in endogenous endorphins. There may be an exacerbation of symptoms in the first trimester, partly due to lifestyle changes

including missing meals due to nausea or vomiting of morning sickness. An improvement is often seen in the second trimester as oestrogen levels rise. Unfortunately, some women do not notice a benefit as the pregnancy progresses and others may see an exacerbation of their symptoms, often those with a history of migraine with aura.⁷ These cases present a challenge to many physicians. The management of these will be discussed later. It is also well described for some women to present with migraine aura for the first time during pregnancy¹⁰ and this is thought to be related to the increase in oestrogen levels. It is common for women to experience a post-partum exacerbation within 2–6 days as oestrogen levels fall and this is compounded by lifestyle changes such as sleep disturbance, irregular meal times, stress etc. There are some limited data suggesting that breast-feeding delays the recurrence of migraine back to pre-pregnancy levels¹¹ with a possible explanation that this may be related to anovulation.⁸

The effect of migraine on pregnancy

There have been a number of papers suggesting an association between migraine and pre-eclampsia or gestational hypertension.¹² More recently there has been some evidence suggesting an increase in pre-term births and low birth weight (OR 1.24 and 2.74, respectively).^{13,14} However, there are possible confounding factors including medication taken during pregnancy which was not recorded in the study.

A population-based study in USA also found a link between migraine and vascular diseases such as stroke and myocardial

Department of Neurology, Guy's and St Thomas' NHS Trust, London, UK

Corresponding author:

Shazia K. Afridi, Consultant Neurologist, Guy's and St Thomas' NHS Trust, London SE1 9RT, UK.
Email: shazia.afridi@gstt.nhs.uk

Current Concepts In Migraine Research

**Volker Pfaffenrath, Per-Olov
Lundberg, Ottar Sjaastad**



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Current Concepts in Migraine Research Raymond Greene, 1978 *Migraine in Childhood* Judith M. Hockaday, 2013-10-22 *Migraine in Childhood and other Non Epileptic Paroxysmal Disorders* is an eight chapter book that begins with the definitions clinical features and diagnosis of childhood migraine The book then describes the epidemiology and inheritance of migraine in children variants of migraine in children and the equivalents and management of childhood migraine Subsequent chapters elucidate paroxysmal disorders that may be migraine or may be confused with it the relationship between migraine and epilepsy and the pathophysiology and precipitants of migraine The book will be a great addition to the increasing knowledge about childhood migraine and associated disorders **Ergebnisse der Inneren Medizin und Kinderheilkunde/Advances in Internal Medicine and Pediatrics** P. Frick, G.-A. von Harnack, K. Kochsiek, G. A. Martini, A. Prader, 2012-12-06 **Recent Advances in the Pharmacology of Adrenoceptors** Elmer Szabadi, Christopher M. Bradshaw, Paul L. T. Bevan, 1978 **Medical Factors and Psychological Disorders** Alan S. Bellack, R.L. Morrison, 2012-12-06 Throughout the last decade the field of clinical psychology has expanded dramatically Clinical psychologists are involved in the treatment and research of a wider range of problems and disorders than they have ever been before Evidence has been rapidly accumulating regarding the role of psychological variables and stress in the etiology and maintenance of a range of medical and psychiatric disorders New models of psychotherapy have been developed and refined and the specific efficacy of psychotherapeutic interventions for an increasing number of disorders or subtypes of disorders has been documented However concurrent with research that demonstrates the impact of psychosomatic factors in various disorders and the efficacy of psychological or psychosocial interventions dramatic progress has been made with regard to the investigation of biological factors that may mediate certain disorders That physical factors may underlie many instances of psychiatric illness has been repeatedly demonstrated Also the efficacy of somatic treatments for different disorders or for subtypes of disorders has been reported with increasing methodological rigor

Current Concepts in Migraine Research Raymond Greene, Updating in Headache Volker Pfaffenrath, Per-Olov Lundberg, Ottar Sjaastad, 2012-12-06 In September 1983 the First International Headache Congress took place the founding congress of the International Headache Society IHS This meeting was attended by around 200 headache specialists from some 20 countries One of the principal goals of the IHS which was formed in London in 1982 is to promote and stimulate interest and research in the headache field In addition to the sponsorship of continued education events this also involves the coordination of scientific projects and the organization of future conferences There is no doubt that headaches represent an everyday problem in medical practice When the first headache clinics were established some years ago they were regarded as very progressive Today there are special outpatient centers and clinics for headache patients However this specialization has certainly not progressed very far The fact is that differential diagnosis and treatment of recurrent and chronic

headaches represents a broad field that cuts across many disciplines Headaches are thus relevant not only to the neurologist but also to the psychiatrist the neuro surgeon the internist the endocrinologist the psychologist the pharmacologist and the biochemist Despite intensive research in numerous and very disparate medical disciplines there are still no generally accepted pathophysiologic concepts for many headache syndromes Realizing the importance of a multidisciplinary forum the IHS assumed the organization of this congress in collaboration with the German Migraine Society

The Nervous System and the Heart Gert J. Ter Horst,1999-12-29 Gert Ter Horst and a panel of recognized experts illuminate the complexities and importance of heart brain and brain heart interactions in human health These distinguished authorities critically review what is known about autonomic control of the heart hypothalamo pituitary adrenal modulation heart pain modulation by humoral factors and the relationship between cognitive neuropsychiatric disorders and heart disease Highly relevant and up to date The Nervous System and the Heart offers the first comprehensive treatment of the important mutual interactions of the heart and the brain By integrating specialist knowledge in cardiology with that from neuroscience this important book constitutes a brilliant guide to today s novel approaches to neural control of the heart and consequent reduction of cardiovascular mortality *Health Science Books, 1876-1982* ,1982 Neurocardiology Ralph Hudson Johnson,David G. Lambie,John Michael Kenneth Spalding,1984 **Headache, Physiopathological and Clinical Concepts** Macdonald Critchley,1982 **Cerebrovascular Diseases** ,1981 *The Laryngoscope* ,1991 **Controversies and Clinical Variants of Migraine** Joel R. Saper,1987 Biofeedback David S. Olton,Aaron R. Noonberg,1980 Cephalalgia ,1982 *Pharmacotherapy* Joseph T. DiPiro,1993 The gold standard text for the therapeutics course mandatory in pharmacy schools Now in its sixth edition this classic text continues its long standing tradition of offering unparalleled guidance in the development of pharmaceutical care plans The book provides a unique process of thinking about pharmacotherapy the process which uses evidence based approaches to the drug treatment of diseases Features FREE Online Resource Center for professors and students study materials web chapters questions and answers and updates NEW Key Concepts begin each chapter Excellent use of algorithms tables and charts provides clear recommendations Clinical Controversies in the treatment sections of disease oriented chapters **Psychopharmacology and Food** Merton Sandler,1985 This fascinating volume examines the ways in which drugs can influence the appetite and the effects that food itself can have on the body thus covering both the pharmacology of feeding and the action of foodstuffs as pharmacological agents The distinguished contributors review the underlying neurophysiology and neurochemistry of eating the effects of a variety of drugs on normal feeding and the application of these drugs in clinical practice and the role of diet in senile dementia migraine and other adverse reactions This book will be of value to a wide range of professionals including physicians neuroscientists psychiatrists psychologists dieticians and pharmacologists Handbook of Pain Management Ronald Melzack,Patrick David Wall,2003 A concise overview of the most important information about every clinical aspect of pain It is for health care professionals in

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