

ORAL AND NON-ORAL SENSORIMOTOR STIMULATION IN PRETERM INFANTS: BIBLIOGRAPHIC REVIEW

Estimulação sensoriomotora intra e extra-oral em neonatos prematturos: revisão bibliográfica

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ABSTRACT

Prematurity is one of the most prevalent factors in children's hospital. The speech therapy performed in hospitals focusing on premature newborn has gained more space. This intervention had as main purpose the detection of problems related with feeding and provides solutions to newborns that use enteral tubes due to organic immaturity. The use of techniques has been exploited aiming the maturation of oral sensorimotor system in a more accelerated way, besides a safe transition to full oral feeding. The purpose of this study is to conduct a systematic review of national and international literature in order to list the different techniques and elucidate their effectiveness to the maturation of oral sensorimotor system in preterm neonates who remain in hospital. According to the literature, the most used techniques in Brazil were the non-nutritive sucking with minimal gloved finger or orthodontic pacifier. In other countries, the most cited techniques were non-nutritive sucking on pacifier and stimulation of the oral sensorimotor system. The techniques used in Brazil and abroad have reflected positively on the development of oral functions of neonates. Taking into account the need to promote exclusive breastfeeding, recent publications have shown alarming and disturbing percentage of use of synthetic nozzles for stimulation in neonatal intensive care.

KEYWORDS: Infant, Newborn, Infant, Premature, Feeding, Deglutition Disorders, Intensive Care, Neonatal, Breast Feeding

■ INTRODUCTION

Speech therapy performed in hospitals focusing newborns under risk has reaching more space. It aims to detect problems and propose solutions to neonates presenting difficulties with oral feeding (OF), due to their organic immaturity⁽¹⁾.

The speech pathology therapist is part of the minimum team of professionals working with newborns under risk in Neonatal Intensive Care Units (NICU). Their participation is determined by the Ministry of Health under regulation nº 930 in force since May 10th of 2012⁽²⁾. The professionals

evaluates newborns that do not coordinate sucking, swallowing and breathing (SSB), lethargic neonates with weak sucking, apnea, declining saturation levels while feeding, gastroesophageal reflux episodes, coughing while or after swallowing and those who are on gastric tube⁽³⁾.

Prematurity is one of the main factors that provoke neonatal complications, because retains newborn's (NB) natural development. Besides, the preterm infant is inclined to other future complications, as cognitive function development compromising⁽⁴⁾.

According to World Health Organization (WHO), the preterm newborn (PTNB) or premature is the one that was born before the 37th gestational week. The classification for those neonates is based on the gestational age (GA), birth weight, on the relation weight and GA, and also corrected gestational age (CGA). These data are used on the evaluation of baby's size and development after the 40th week⁽⁵⁾.

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Conflict of interest: non-existent

Oral Sensorimotor Functionpb 1998

Chia-shu Lin



Oral Sensorimotor Functionpb 1998:

Comparative Neuropsychology and Brain Imaging David Emmans,Arto Laihinen,2015 This volume is a special commemorative publication in honor of Professor Dr Ulrike Halsband from the University of Freiburg in Germany on the occasion of her 60th birthday and includes chapters specially written for the volume with recent views reviews and results on such fields as functioneuroanatomytomy neuropsychology education animal behavior altered states of consciousness hypnosis and the history of psychology in Germany The contributors are internationally well known scholars from academic and clinical institutions abroad in Europe

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oral sensory and motor functions such as somatosensation gustation and orofacial pain and anxiety The book concludes with a review of recent translational research and discussion of the application of neuroimaging in clinical management Throughout the text boxed sections highlight key information about cognitive neuroscience imaging techniques interpreting neuroimaging results and relating research findings to clinical practice Covers specific clinical applications of dental neuroimaging in geriatric dentistry and in brain plasticity and adaptation Summarizes classic research works in neuroscience and oral science Discusses potential clinical applications of neuroimaging in dental practice Features chapter summaries further reading links guided clinical scenarios and numerous figures and tables Offering a systematic introduction to brain science and how it relates to dental medicine Dental Neuroimaging The Role of the Brain in Oral Functions is essential reading for students and researchers in disciplines such as neuroscience neuroanatomy oral physiology dentistry and oral healthcare speech therapy and oral rehabilitation [Annual Report](#) University of California, Los Angeles. Brain Research Institute,1997 [Sac 1998 Standards for Ambulatory Care](#) ,1998-06 *Orofacial Pain and Headache* Yair Sharav,Rafael Benoliel,2008-01-01 OROFACIAL PAIN AND HEADACHE is a timely comprehensive and instructive addition to the pain literature in particular the important and truly multidisciplinary area of orofacial pain Based on their extensive clinical experience and a thorough understanding of pain mechanisms specific to the trigeminal system the editors Yair Sharav and Rafael Benoliel have integrated knowledge from the areas of headache and orofacial pain and have succinctly explained common mechanisms involved in the two phenomena with important implications for pain diagnosis and management Internationally renowned editors and contributor team Integrated approach to the diagnosis and treatment of oral and facial pain syndromes as well as common primary headaches A thorough review of the four major clinical entities of orofacial pain acute dental neurovascular musculoskeletal and neuropathic Comprehensive coverage of the pharmacotherapy of acute and chronic pain Chapters on the psychological neurosurgical and otolaryngological aspects of orofacial pain An in depth discussion of facial pain and headaches secondary to medical co morbidities Exploration of complementary and alternative methods of pain control including acupuncture food additives and hypnosis **Oral and Maxillofacial Surgery - E-Book** Raymond J Fonseca, DMD,2017-04-26 NEW Full color design provides a more vivid depiction of pathologies concepts and procedures NEW Expert Consult website includes all of the chapters from the print text plus classic online only chapters and an expanded image collection references linked to PubMed and periodic content updates NEW Thoroughly revised and reorganized content reflects current information and advances in OMS NEW New chapters on implants and orthognathic surgery cover the two areas where oral and maxillofacial surgeons have been expanding their practice NEW Digital formats are offered in addition to the traditional print text and provide on the go access via mobile tablets and smart phones [Oral and Maxillofacial Surgery - E-Book](#) Raymond J. Fonseca,2017-03-08 Selected for Doody s Core Titles 2024 in Oral Maxillofacial Surgery This trusted three volume resource covers the full scope of oral and maxillofacial surgery with up to

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