

# Whiplash Injuries

## Diagnosis and Treatment

### List of Chapters:

#### PART 1 - GENERAL ASPECTS

- Whiplash: an Interdisciplinary Challenge
- Functional Anatomy
- Kinematics and Dynamics of the Vehicle/Seat/Occupant System Regarding Whiplash Injuries
- Whiplash Lesions: Orthopaedic Considerations
- The Neurological Point of View
- The Radiological Evaluation

#### PART 2 - PHYSIOPATHOLOGY

- Patophysiology of Whiplash Associated Disorders: Theories and Controversies
- Postural Studies on Whiplash Injuries
- Whiplash Effects on Hypothalamus and the Sympathetic System
- Whiplash Effects on the Vestibulo-oculomotor System

#### PART 3 - EVALUATION

- Anamnesis and Clinical Evaluation
- Voluntary Eye Movements in Whiplash Injuries
- Optokinetic Nistagmus and Visuo-vestibular Interaction in Whiplash Injuries
- Vestibulo-ocular Reflexes and Visuo-vestibular Interaction
- Abducting Interocular Ophthalmoplegia After Whiplash Injuries
- Instrumental Evaluation of the Posture
- Posturography and Vertigo
- Diagnosis and Treatment of Equilibrium Disorders in Whiplash Injuries: Posture and Stance Disorders
- Medico-legal Aspects

#### PART 4 - TREATMENT

- Pharmacological Treatment of Whiplash Injury
- Whiplash Injury: Orthopaedic and Rehabilitative Approach to Neck Pathology
- Acupuncture and Neuroreflexology
- Physiotherapy of the Neck, Back and Pelvis in Patients with Whiplash Injuries
- Neurorehabilitation of Ataxia
- Visual Feedback Center of Gravity Reeducation
- Ski Trainer Oscillating Platform: Proprioceptive Reeducation
- Vestibular Electrical Stimulation
- Neurophysiological Investigation of the Relation Between Vestibular Activation and Cervicospinal Reflex
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