



# From Acute to Chronic Back Pain: Risk Factors, Mechanisms, and Clinical Implications

By Monika I. Hasenbring, Adina C. Rusu, Dennis C Turk

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Chronic back pain has been and continues to be a major cause of distress (both to people with persistent pain and their significant others), disability, work loss, and a huge cost to society. Moreover, with the aging population, it is becoming even more prevalent and as a consequence is having an escalating impact upon the healthcare systems and society as a whole worldwide. A significant issue concerns understanding why, although the majority of people with acute back symptoms recover in a reasonable time, a significant minority evolve into patients with chronic pain and prolonged pain-related disability. Understanding the variables that contribute to chronicity could serve as a basis for early intervention to prevent the downward spiral.

In the past 15 years, psychological and psychobiological mechanisms have been identified as important risk factors in back pain, leading to the development of early screening methods (Yellow Flag diagnostics) and new psychosocial interventions. These work by closely targeting treatment modalities to patients' needs. However, many aspects of how acute pain becomes chronic pain remain unexplained. Recent neurobiological work investigating genetic, neurophysiological, and biomechanical processes has uncovered important mechanisms involved in chronic and acute back pain.

*From Acute to Chronic Back Pain* examines the risk factors and mechanisms involved in the transition from acute to chronic back pain. It integrates genetic, biomechanical neurobiological, psychophysiological, psychosocial, and socioeconomic risk factors. Moreover, the text examines advances in treatment approaches based on evidence from published studies-ranging from prevention of disability to pharmacological, psychological, and rehabilitative strategies and methods.

Broad in scope, and with contributions from leading authorities in their respective fields, this book is a valuable and comprehensive work for the many specialities involved with back pain - including those in the fields of clinical and health psychology, physiology, epidemiology, and pain.

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- Sales Rank: #3101394 in Books
- Published on: 2012-03-21
- Original language: English
- Number of items: 1
- Dimensions: 7.00" h x 1.60" w x 9.80" l, 2.65 pounds
- Binding: Hardcover
- 608 pages

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...a very stimulating and thought-provoking book making a wide range of new research findings accessible and useable. Occupational Medicine, Nov 2012 This book would be useful to any clinician wanting a current reference book that consolidates the latest evidence-based research from a variety of specialties and fields on LBP. Physical Therapy Reviews, August 2013 This book is a valuable guide to those working in the fields of clinical and health psychology, and in physiology, epidemiology, and pain management. You will find almost 600 pages of useful knowledge, with discussions and graphics presented visually in charts, diagrams, sketches, and tables. Nano Khilnani

### **About the Author**

Monika Hasenbring is a Professor in the Department of Medical Psychology and Medical Sociology, Faculty of Medicine, Ruhr-University of Bochum, Germany. Adina C. Rusu is a Professor in the Department of Medical Psychology and Medical Sociology, Ruhr University Bochum, Germany and Department of Psychology, Royal Holloway, University of London, United Kingdom. Dennis C. Turk is a Professor in the Department of Anesthesiology and Pain Medicine, University of Washington, School of Medicine, USA .

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