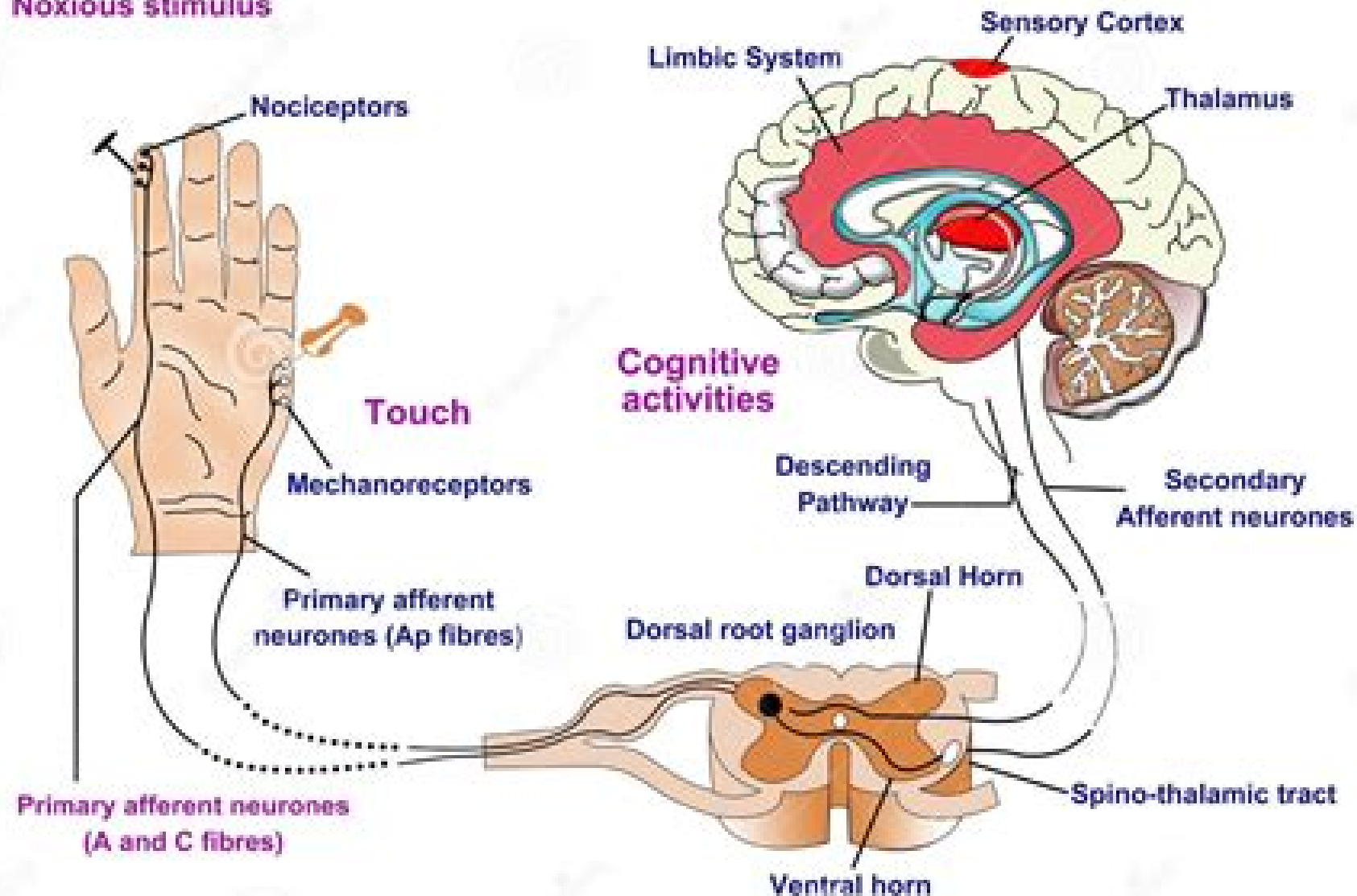


Noxious stimulus



# Pain And Touch

**J.P. Howard Fee, James G. Bovill**



## **Pain And Touch:**

*Pain, Touch, and Decision Making* Lina Koppel, 2020-11-04 Stimulation of sensory nerves can give rise to powerful affective experiences. Noxious stimuli can give rise to pain, an unpleasant experience which in turn causes suffering and constitutes a major societal burden. Touch, on the other hand, can feel pleasant and plays an important role in social relationships and well-being. Slow, gentle stroking of the skin, in particular, has been shown to activate C-tactile (CT) afferents, which are thought to signal affective and socially relevant aspects of touch. However, little is known about how pain and affective touch influence everyday decision making. In Paper I, we investigated the effect of acute physical pain on risk taking and intertemporal choice. Participants (n = 109) performed a series of economic decision making tasks once while experiencing acute thermal pain and once in a no-pain control condition. Results indicated that pain increased risk taking for monetary gains but not for equivalent losses and increased impatience. In Paper II, we investigated the effect of affective touch on betrayal aversion, altruism, and risk taking. Participants (n = 120) performed a series of economic decision making tasks once while being stroked on the forearm at CT-optimal speed using a soft painter's brush and once in a no-touch control condition. Results indicated no effect of affective touch on any of the outcome measures. In Paper III, we investigated how the ability to affect an upcoming painful event via voluntary action influences cortical processing of ongoing somatosensory stimulation. fMRI data was collected from 30 participants while they performed a task that involved pressing a response button to reduce the duration of upcoming thermal stimuli. Whole-brain analyses revealed no significant task-related effects in brain regions typically involved in pain, except activation in a cluster in the anterior cingulate cortex (ACC) which was greater when upcoming stimulation was painful than when it was nonpainful. However, region of interest analyses in the anterior insula (AI) and midcingulate cortex (MCC) indicated that the noxious nature of the upcoming stimulation as well as the ability to affect it influenced processing of ongoing stimulation in both of these regions. Activation in MCC but not AI also correlated with response times. Taken together, these studies contribute to the broader understanding of everyday decision making and of how affective experiences such as pain and touch shape everyday decisions and behaviors.

Stimulering av nervfibrer i huden kan ge upphov till starka känsloupplevelser. Skadliga eller potentiellt skadliga stimuli kan ge upphov till smärta, en obehaglig upplevelse som i sin tur orsakar lidande och har stora socioekonomiska konsekvenser. Beröring andra sidan kan upplevas som behagligt och är en viktig del av sociala relationer. Förhållandevis lite kunskap finns dock om hur smärta och beröring påverkar vardagligt beslutsfattande. Blir vi otillrägga av att uppleva smärta? Tar vi fler risker? Gör vi beröring oss själva och mer tillitsfulla? I denna avhandling presenteras tre studier som försöker svara på denna typ av frågor. I den första studien fick deltagarna smärtsamt stimuli samtidigt som de fattade beslut om pengar. Besluten involverade till exempel att välja mellan en säker vinst på 50 kr eller att singla slant om att vinna 100 kr. Resultaten visade att smärta ökade risktagandet för vinster men inte för motsvarande förluster. Deltagare som upplevde smärta var även mer otillrägga, dvs de föredrog i större utsträckning snabba beslut.

ningar I den andra studien fick deltagarna ber ring med en mjuk pensel samtidigt som de fattade beslut L tt smekande ber ring aktiverar en s rskild typ av nervfibrer som tros signalera affektiva och socialt relevanta aspekter av ber ring Ber ring kar ven uts ndringen av hormonet oxytocin som s gs ka k nslan av tillit till andra m nniskor ven om de vetenskapliga bevisen f r detta r motstridiga Resultaten av studien visade ingen effekt av ber ring p beslutsfattande I den tredje studien unders ktes hj rnans aktivitet vid sm rtsam stimulering Vi vet sedan tidigare att hj rnan inte bara reagerar p det som h nder just nu utan att den ven f rbereder inf r vad som kan komma att h nda i framtiden Deltagarna fick sm rtsam eller icke sm rtsam v rmestimulering samtidigt som de utf rde en uppgift som innebar att de skulle trycka p en knapp f r att f rkorta en kommande v rmestimulering Resultaten visade att hj rnans bearbetning av p g ende stimulering p verkades av huruvida n stkommande stimulering var sm rtsam eller inte och huruvida den gick att p verka Sammantaget bidrar dessa studier till en kad f rst else av hur m nniskor fattar beslut och hur upplevelser som sm rta och ber ring p verkar vardagligt beslutfattande och beteende Sm rta har en stark koppling till beteende eftersom vi snabbt m ste kunna agera f r att undvika skada Ber ring d remot upplevs p olika s tt beroende p den sociala kontexten vilket troligtvis ocks p verkar ber ringens effekt p beteende

**Neurosurgery** United States. Army Medical Service, John Boyd Coates (Jr.), 1959 *Neurosurgery* John Boyd Coates (Jr.), Roy Glen Spurling, Barnes Woodhall, 1959 Clinical Methods in Pain Medicine Dr. Priyanka Gupta Manglik, 2024-08-15 A comprehensive reference focusing on the evaluation and treatment of various pain conditions covering history taking examination techniques and modern interventional methods used in pain management clinics Medical Department Army: Surgery in World War II, Neurosurgery, V.2 United States. Army Medical Service, 1959 A Touch of Doubt Rachel Aumiller, 2021-02-22 What can we know about ourselves and the world through the sense of touch and what are the epistemic limits of touch Scepticism claims that there is always something that slips through the epistemologist s grasp A Touch of Doubt explores the significance of touch for the history of philosophical scepticism as well as for scepticism as an embodied form of subversive political religious and artistic practice Drawing on the tradition of scepticism within nineteenth and twentieth century continental philosophy and psychoanalysis this volume discusses how the sense of touch uncovers contradictions within our knowledge of ourselves and the world It questions 1 what we can know through touch 2 what we can know about touch itself and 3 how our experience of touching the other and ourselves throws us into a state of doubt This volume is intended for students and scholars who wish to reconsider the experience of touching in intersections of philosophy religion art and social and political practice New York Medical Journal , 1893 **A Text-book of Experimental Psychology** Charles Samuel Myers, 1925 *The Science & Practice of Manual Therapy* Eyal Lederman, 2005-03-09 The Science and Practice of Manual Therapy previously entitled The Fundamentals of Manual Therapy is an extensive examination of how manual therapy MT techniques work and how to match the most suitable techniques to different conditions Drawing on evidence based research it explores the physiological neurological and psychophysiological

responses of the human body to MT techniques A highly practical book which provides useful clinical strategies for the treatment of common conditions seen in manual therapy practice This new edition has been completely rewritten extensively updated and expanded with addition of new research material novel clinical approaches and demonstration of new techniques and assessments The text aims to assist practitioner and students of manual therapy develop a deeper understanding of their patient s processes and how they may be affected by different MT techniques It aims to help MT practitioners deliver a more effective and safer treatment and to be able to treat a broader range of conditions Comprehensive overview helps provide an understanding of how and why MT techniques work Content is written in jargon free easy to read style with most terms explained Text is enhanced by over 120 diagrams photographs and tables Manual pain relief is extensively discussed throughout the book Section 1 examines the direct effects of manual therapy on connective tissue and muscle physiology examining how MT can help assist repair and adaptation processes in these tissues Section 2 examines the effect of MT on the neuromuscular system identifying conditions where neuromuscular dysfunctions can be treated by MT Section 3 examines the psychological emotional and behavioral impacts of MT in addition to the psychophysiological affects of MT including psychomotor neuroendocrine and autonomic responses More than 1 000 references relevant to manual therapy are included making this an essential source book for students and researchers of MT Extensive update and expansion of first edition with addition of new research material and the references from the last 5 years Section 1 expanded to include more on the responses of muscle to mechanical stimuli as carried out in MT techniques Section 2 rewritten and restructured to make it easier to understand and updated in the light of recent research Expanded material on pain All references thoroughly updated General updating of all text and some new illustrations

**Pain Medicine Question-Answer** Mr. Rohit Manglik, 2024-07-30 Features question and answer format discussions on pain physiology pharmacology and clinical treatment approaches for students and professionals

**Cerebral Cortex** Edmund T. Rolls, 2018-01-26 The aim of this book is to provide insight into the principles of operation of the cerebral cortex These principles are key to understanding how we as humans function There have been few previous attempts to set out some of the important principles of operation of the cortex and this book is pioneering The book goes beyond separate connective neuroanatomical neurophysiological neuroimaging neuropsychiatric and computational neuroscience approaches by combining evidence from all these areas to formulate hypotheses about how and what the cerebral cortex computes As clear hypotheses are needed in this most important area of 21st century science how our brains work I have formulated a set of hypotheses about the principles of cortical operation to guide thinking and future research The book focusses on the principles of operation of the cerebral cortex because at this time it is possible to propose and describe many principles and many are likely to stand the test of time and provide a foundation for further developments even if some need to be changed In this context I have not attempted to produce an overall theory of operation of the cerebral cortex because at this stage of

our understanding such a theory would be incorrect or incomplete However many of the principles described will provide the foundations for more complete theories of the operation of the cerebral cortex This book is intended to provide a foundation for future understanding and it is hoped that future work will develop and add to these principles of operation of the cerebral cortex The book includes Appendices on the operation of many of the neuronal networks described in the book together with simulation software written in Matlab Pruritus Laurent Misery, Sonja Ständer, 2010-01-22 Numerous treatments have been proposed But the treatment of itch remains difficult and it depends on its etiology The understanding of the pathophysiology of itch is necessary Fortunately many very interesting results of research have been reported in the recent years Pruritis will explain the pathophysiology of itch describe all causes and give guidelines for management and treatment

**Physiology for Anaesthesiologists** J.P. Howard Fee, James G. Bovill, 2004-10-19 Anaesthesiologists regularly administer potent and potentially toxic drugs that profoundly interfere with fundamental physiological functions such as breathing cardiac output blood pressure the protective reflexes and the perception of pain Reviewing all aspects of human physiology Physiology for Anaesthesiologists provides a working knowledge *Handbook of Psychiatry in Palliative Medicine* Harvey Max Chochinov, William Breitbart, 2009 Eight years has passed since the first edition of The Handbook of Psychiatry in Palliative Medicine was published In that time psychiatric or psychosocial palliative care has evolved the net effect on palliative medicine has been transformative Palliation that neglects psychosocial dimensions of patient and family experience de facto fails to meet contemporary standards of comprehensive palliative care While a focus on somatic issues has sometimes overshadowed attention to psychological existential and spiritual end of life challenges the past decade has seen an all encompassing multi disciplinary approach to care for the dying beginning to take hold The first comprehensive textbook of psychiatric palliative care this new edition has been fully updated reorganized and expanded to include eleven new chapters Written by 67 internationally known psychiatry and palliative care experts the book is truly an essential reference for all providers of palliative care including psychiatrists psychologists mental health counselors oncologists hospice workers and social workers Each chapter has been updated to address new therapeutic modalities and approaches as well as new research trends and opportunities for each topic **Psychology** Robert Sessions Woodworth, 1921 Studies in Animal Behavior: 1899-1905 Robert Mearns Yerkes, 1899 *Itch* Gil Yosipovitch, Malcolm W. Greaves, Jr., Alan B. Fleischer, Francis McGlone, 2004-01-06 Offering details on the pharmacology of itch techniques of itch evaluation and neurogenic itch this reference presents new concepts in the neurophysiology and central mechanisms of itch animal models of itch and processing of histamine itch in the human cerebral cortex The text clarifies itch in systemic and skin disease exploring renal itch **Vital Staining of Human Blood with Special Reference to the Separation of the Monocytes** Miriam Elizabeth Simpson, 1921 **Comprehensive Toxicology**, 2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce

adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts      **Glasgow Medical Journal** ,1898

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