

Cambridge Elements

Elements in Emergency Neurosurgery

edited by

Nihal Gurusinghe

Lancashire Teaching Hospital NHS Trust

Peter Hutchinson

*University of Cambridge, Society of British Neurological Surgeons and Royal
College of Surgeons of England*

Ioannis Fouyas

Royal College of Surgeons of Edinburgh

Naomi Slator

North Bristol NHS Trust

Ian Kamaly-Asl

Royal Manchester Children's Hospital

Peter Whitfield

University Hospitals Plymouth NHS Trust

MILD TRAUMATIC BRAIN INJURY INCLUDING CONCUSSION

Thomas D. Parker

Imperial College London

Colette Griffin

St George's Hospital NHS Trust



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press & Assessment
978-1-009-47605-8 — Mild Traumatic Brain Injury Including Concussion
Thomas D. Parker, Colette Griffin
Frontmatter
[More Information](#)



Shaftesbury Road, Cambridge CB2 8EA, United Kingdom
One Liberty Plaza, 20th Floor, New York, NY 10006, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre,
New Delhi – 110025, India
103 Penang Road, #05–06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment,
a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of
education, learning and research at the highest international levels of excellence.

www.cambridge.org
Information on this title: www.cambridge.org/9781009476058

DOI: 10.1017/9781009380089

© Thomas D. Parker and Colette Griffin 2023

This publication is in copyright. Subject to statutory exception and to the provisions
of relevant collective licensing agreements, no reproduction of any part may take
place without the written permission of Cambridge University Press & Assessment.

First published 2023

A catalogue record for this publication is available from the British Library

ISBN 978-1-009-47605-8 Hardback
ISBN 978-1-009-38009-6 Paperback
ISSN 2755-0656 (online)
ISSN 2755-0648 (print)

Cambridge University Press & Assessment has no responsibility for the persistence
or accuracy of URLs for external or third-party internet websites referred to in this
publication and does not guarantee that any content on such websites is, or will
remain, accurate or appropriate.

Mild Traumatic Brain Injury including Concussion

Elements in Emergency Neurosurgery

DOI: 10.1017/9781009380089
First published online: December 2023

Thomas D. Parker
Imperial College London
Colette Griffin
St George's Hospital NHS Trust

Author for correspondence: Thomas D. Parker, t.parker@imperial.ac.uk

Abstract: Most traumatic brain injury (TBI) cases are considered mild. Precise definitions vary, but typically, loss of consciousness and post-traumatic amnesia duration is brief (e.g. <30 minutes and <24 hours, respectively), and standard imaging is normal. Prognosis in mild TBI is generally good, but disabling persistent symptoms such as headache, dizziness, and affective and cognitive issues are common. A focussed assessment tailored to each individual symptom is crucial for management. Advanced MRI and blood-based biomarkers of mild TBI are emerging and are likely to play an increasingly important role in the assessment of patients following a head injury.

Keywords: head injury, mild traumatic brain injury, concussion, imaging, management

© Thomas D. Parker and Colette Griffin 2023

ISBNs: 9781009476058 (HB), 9781009380096 (PB), 9781009380089 (OC)
ISSNs: 2755-0656 (online), 2755-0648 (print)

Contents

Epidemiology, Definitions, and Classification of Mild TBI	1
Clinical Presentations and Management of Mild TBI	4
Investigations in Mild TBI	10
Pitfalls and Pearls in Mild TBI	13
Guidelines	13
References	14