

# Obstetric Emergencies

## A Practical Manual

Edited by  
Sanjeewa Padumadasa  
Malik Goonewardene



CRC Press  
Taylor & Francis Group

208515

PR

# Obstetric Emergencies

## A Practical Manual

Edited by

Sanjeewa Padumadasa, MBBS, MD, FSLCOG, FRCOG

Professor and Head, Department of Obstetrics and Gynaecology

Faculty of Medicine, University of Kelaniya, and

Former Member of Board of Study in Obstetrics and Gynaecology

Postgraduate Institute of Medicine, University of Colombo, Sri Lanka

Malik Goonewardene, MBBS, MS, FSLCOG, FRCOG

Consultant, Department of Obstetrics and Gynaecology

Sabaragamuwa University of Sri Lanka

Professor Emeritus, Former Senior Professor and

Head of Obstetrics and Gynaecology

Faculty of Medicine, University of Ruhuna

Past President of Sri Lanka College of Obstetricians and Gynaecologists, and

Former Chairperson, Board of Study in Obstetrics and Gynaecology

Postgraduate Institute of Medicine, University of Colombo, Sri Lanka

ප්‍රචලිත අංකය	208515
වර්ග අංකය PR	618.0425 OBS.



CRC Press

Taylor & Francis Group  
Boca Raton London New York

CRC Press is an imprint of the  
Taylor & Francis Group, an Informa business

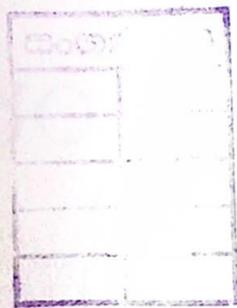


208515

KUML

K

✓



First edition published 2021  
by CRC Press  
2 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN

and by CRC Press  
6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742

© 2021 Taylor & Francis Group, LLC

CRC Press is an imprint of Taylor & Francis Group, LLC

This book contains information obtained from authentic and highly regarded sources. While all reasonable efforts have been made to publish reliable data and information, neither the author[s] nor the publisher can accept any legal responsibility or liability for any errors or omissions that may be made. The publishers wish to make clear that any views or opinions expressed in this book by individual editors, authors or contributors are personal to them and do not necessarily reflect the views/opinions of the publishers. The information or guidance contained in this book is intended for use by medical, scientific or healthcare professionals and is provided strictly as a supplement to the medical or other professional's own judgement, their knowledge of the patient's medical history, relevant manufacturer's instructions and the appropriate best practice guidelines. Because of the rapid advances in medical science, any information or advice on dosages, procedures or diagnoses should be independently verified. The reader is strongly urged to consult the relevant national drug formulary and the drug companies' and device or material manufacturers' printed instructions, and their websites, before administering or utilising any of the drugs, devices or materials mentioned in this book. This book does not indicate whether a particular treatment is appropriate or suitable for a particular individual. Ultimately, it is the sole responsibility of the medical professional to make his or her own professional judgements, so as to advise and treat patients appropriately. The authors and publishers have also attempted to trace the copyright holders of all material reproduced in this publication and apologise to copyright holders if permission to publish in this form has not been obtained. If any copyrighted material has not been acknowledged please write and let us know so we may rectify it in any future reprint.

Except as permitted under U.S. Copyright Law, no part of this book may be reprinted, reproduced, transmitted or utilised in any form by any electronic, mechanical or other means, now known or hereafter invented, including photocopying, microfilming and recording, or in any information storage or retrieval system, without written permission from the publishers.

For permission to photocopy or use material electronically from this work, access [www.copyright.com](http://www.copyright.com) or contact the Copyright Clearance Centre, Inc. (CCC), 222 Rosewood Drive, Danvers, MA 01923, 978-750-8400. For works that are not available on CCC please contact [mpkbookspermissions@tandf.co.uk](mailto:mpkbookspermissions@tandf.co.uk)

*Trademark notice:* Product or corporate names may be trademarks or registered trademarks and are used only for identification and explanation without intent to infringe.

*Library of Congress Cataloging-in-Publication Data*

Names: Padumadasa, Sanjeewa, editor. | Goonewardene, Malik, editor.

Title: Obstetric emergencies : a practical manual / edite by Sanjeewa Padumadasa, Malik Goonewardene.

Other titles: Obstetric emergencies (Padumadasa)

Description: First edition. | Boca Raton : CRC Press, 2021. | Includes bibliographical references and index.

Identifiers: LCCN 2021011680 (print) | LCCN 2021011681 (ebook) | ISBN 9780367543655 (hardback) |

ISBN 9780367543648 (paperback) | ISBN 9781003088967 (ebook)

Subjects: MESH: Pregnancy Complications | Emergency Medicine--methods | Emergencies

Classification: LCC RG571 (print) | LCC RG571 (ebook) | NLM WQ 240 | DDC 618.3--dc23

LC record available at <https://lcn.loc.gov/2021011680>

LC ebook record available at <https://lcn.loc.gov/2021011681>

ISBN: 978-0-367-54365-5 (hbk)

ISBN: 978-0-367-54364-8 (pbk)

ISBN: 978-1-003-08896-7 (ebk)

Typeset in Times  
by MPS Limited, Dehradun

# Contents



Contributors .....	v
1. Overview of Obstetric Emergencies..... <i>Sanjeewa Padumadasa and Malik Goonewardene</i>	1
2. Umbilical Cord Prolapse .....	4
<i>Sanjeewa Padumadasa and Prasantha Wijesinghe</i>	
3. Eclampsia and Pre-Eclampsia with Severe Features.....	14
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
4. Acute Fatty Liver of Pregnancy.....	25
<i>Janaka de Silva and Sanjeewa Padumadasa</i>	
5. Cardiac Emergencies in Obstetrics.....	32
<i>Sanjeewa Padumadasa and Sanjeewa Rajapakse</i>	
6. Maternal Sepsis.....	40
<i>Sanjeewa Padumadasa and Udaya Rodrigo</i>	
7. Maternal Cardiorespiratory Arrest.....	52
<i>Sanjeewa Padumadasa and Nilmini Wijesuriya</i>	
8. Abnormal Labour.....	62
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
9. Instrumental Vaginal Delivery .....	83
<i>Malik Goonewardene and Sanjeewa Padumadasa</i>	
10. Shoulder Dystocia.....	108
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
11. Difficult Caesarean Delivery .....	129
<i>Sanjeewa Padumadasa and Hemantha Senanayake</i>	
12. Complications of Obstetric Anaesthesia.....	140
<i>Bhaagya Gunetilleke and Asantha de Silva</i>	
13. Antepartum Haemorrhage .....	148
<i>Sanjeewa Padumadasa</i>	
14. Primary Postpartum Haemorrhage.....	172
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
15. Secondary Postpartum Haemorrhage.....	194
<i>Sanjeewa Padumadasa</i>	

- 16. Uterine Rupture.....	200
<i>Malik Goonewardene</i>	
17. Uterine Compression Sutures .....	206
<i>Sanjeewa Padumadasa</i>	
18. Uterine Devascularization .....	211
<i>Sanjeewa Padumadasa and Prasantha Wijesinghe</i>	
19. Emergency Obstetric Hysterectomy.....	224
<i>Sanjeewa Padumadasa and Prasantha Wijesinghe</i>	
- 20. Retained Placenta.....	232
<i>Malik Goonewardene</i>	
21. Acute Uterine Inversion.....	239
<i>Sanjeewa Padumadasa and Kapila Gunawardana</i>	
22. Amniotic Fluid Embolism .....	248
<i>Sanjeewa Padumadasa</i>	
23. Venous Thromboembolism in Pregnancy .....	255
<i>Sanjeewa Padumadasa and Aflah Sadikeen</i>	
- 24. Obstetric Anal Sphincter Injuries.....	264
<i>Ruwan Fernando</i>	
25. Assisted Vaginal Breech Delivery.....	278
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
26. Twin Delivery.....	299
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
27. External Cephalic Version .....	306
<i>Malik Goonewardene and Sanjeewa Padumadasa</i>	
28. Internal Podalic Version and Breech Extraction.....	310
<i>Sanjeewa Padumadasa and Malik Goonewardene</i>	
29. Non-Reassuring Fetal Status.....	316
<i>Tiran Dias, Amarnath Bhide, and Austin Ugwumadu</i>	
- 30. Resuscitation of the Newborn.....	325
<i>Amit Gupta and Anshuman Paria</i>	
- 31. Simulation in Obstetric Emergencies.....	334
<i>Sanjeewa Padumadasa and Sabaratnam Arulkumaran</i>	
<b>Index.....</b>	<b>343</b>