



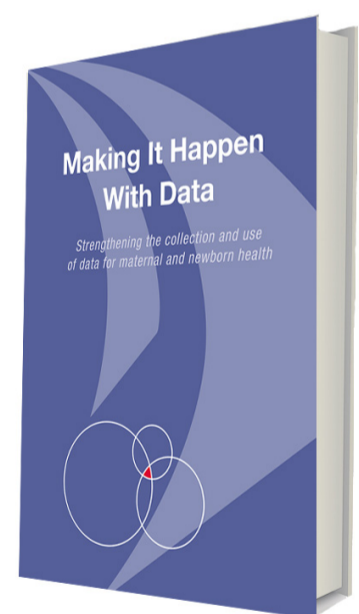
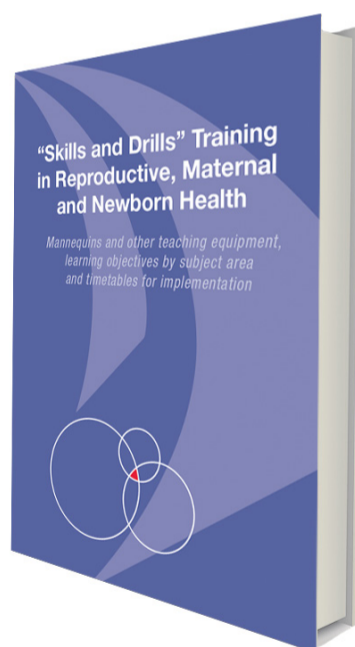
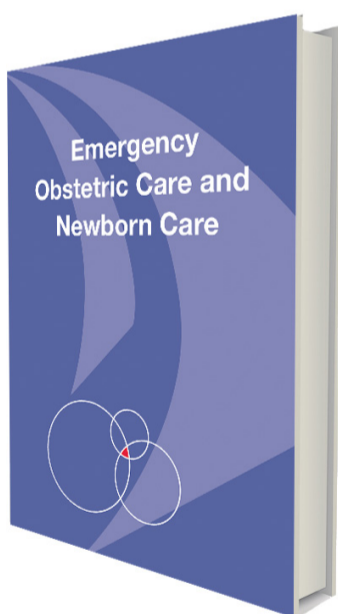
# LSTM

CENTRE FOR MATERNAL  
AND NEWBORN HEALTH

## Improving the Availability and Quality of Healthcare for Mothers and Babies Series

Estimates published in May 2014 show that, globally, an estimated 289 000 women die during pregnancy, childbirth or in the postnatal period, 2.6 million babies are stillborn and 3 million babies die within one month of birth. The majority of these happen in low and middle income settings, are preventable and occur during labour and childbirth and in the first week after birth.

This series of manuals has been developed by the Centre for Maternal and Newborn Health at the Liverpool School of Tropical Medicine. As an international centre of excellence, its research-led work falls into three main categories: **Design, Implementation and Evaluation**. The Centre creates and evaluates innovative healthcare packages that focus on continual improvement in the availability and quality of care to ensure better health outcomes.



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## Emergency Obstetric Care and Newborn Care

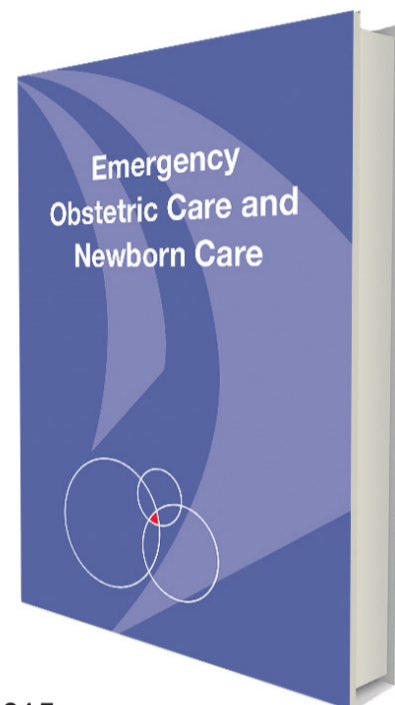
Edited By: NR van den Broek and CA Ameh

Estimates show that, globally, an estimated 289 000 women die during pregnancy, childbirth or in the postnatal period; 2.6 million babies are stillborn and 3 million babies die within one month of birth. The majority of these happen in low and middle income settings, are preventable and occur during labour and childbirth and in the first week after birth.

At least 80% of deaths result from five complications that are well understood and can be readily treated: haemorrhage, sepsis, eclampsia, obstructed labour and complications of abortion. This manual is structured around the leading causes of maternal mortality and the delivery of basic and comprehensive emergency obstetric care. It is meant for use by all those healthcare providers working in resource-poor settings, trying to save lives in sometimes very difficult situations.

### The Contents:

- Chapter 1: Communication, Triage and Referral
- Chapter 2: Resuscitation of Mother and Neonate
- Chapter 3: Shock and the Unconscious Patient
- Chapter 4: Severe Pre-Eclampsia and Eclampsia
- Chapter 5: Obstetric Haemorrhage
- Chapter 6: Obstructed Labour
- Chapter 7: Pregnancy Related Sepsis
- Chapter 8: HIV in Pregnancy & Prevention of Mother to Child Transmission of HIV (PMTCT)
- Chapter 9: Assisted Vaginal Delivery
- Chapter 10: Common Obstetric Emergencies
- Chapter 11: Early Newborn Care
- Chapter 12: Complications of Abortion
- Chapter 13: Essential Drugs and Immunisation Schedules



250 pages (paperback) • ISBN 978-0-9927545-3-2 • Publication date: December 2015

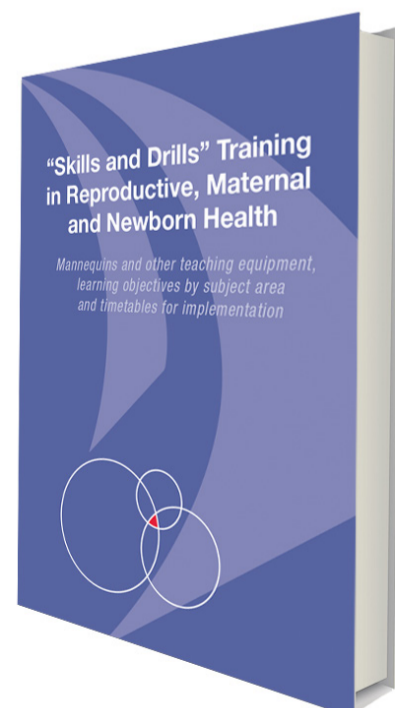
## “Skills & Drills” Training in Reproductive, Maternal and Newborn Health

*Mannequins and other teaching equipment, learning objectives by subject area and timetables for implementation*

Edited By: NR van den Broek • Contributors: T Kana and M Lutton

Simulation or “skills and drills” based training is an important strategy to improve healthcare providers’ competence, confidence and team work. There is substantial evidence that such training based in a skills laboratory or simulation centre enables healthcare providers (both pre- and in-service) to practice their skills in a controlled environment and improves their knowledge and skills.

This manual provides information on the mannequins and other teaching material currently available for simulation or “skills and drills” based training. All mannequins included in this manual have been tried and tested in a number of low and middle income settings and are of good quality. The preference has been to select low fidelity mannequins which are cost effective and simple to use and maintain. The focus is on maternal and newborn health and is based on the current international recommendations for the provision of skilled birth attendance, emergency obstetric care, early newborn care, antenatal and postnatal care and family planning.



### The Contents:

- Chapter 1: Learning Outcomes by Subject Area – Mannequins and Teaching Materials Needed
- Chapter 2: Mannequins and Teaching Equipment: Core Sets
- Chapter 3: Generic Timetables for “Skills and Drills” Training
- Chapter 4: Mannequins – Specifications
- Chapter 5: Care of Mannequins
- Chapter 6: Checklists

200 pages (paperback) • ISBN 978-0-9927545-1-8 • Publication date: September 2015

## Improving Quality of Care for Mothers and Babies

**Edited By:** NR van den Broek • **Contributors:** S Adaji, M Aminu and F Mgawadere

Improving the Quality of Care for mothers and babies is crucial if health outcomes are to continue to improve. This will require a renewed global focus.

Both maternal and perinatal death audit or review can help identify specific areas of service that need change and for which standards can be developed and audited. Standards have been defined as a level of quality that is considered acceptable or desirable. Standards are set with a clear objective, structure, process and outcome criteria. The current practice is measured and compared against the agreed standards, recommendations for change are made and implemented and practice evaluated again at a later date. Standards and criteria for audit can be developed by expert teams or by quality improvement teams themselves. The latter enhances ownership of the quality improvement process by the implementers at service delivery level.

This practical manual has been developed for use by healthcare providers and managers working to improve the quality of care provided at facility level for mothers and babies.

### The Contents:

#### Module 1: Introduction to Quality of Care

- Key concepts of Quality of Care
- Maternal & Newborn Healthcare and Quality of Care
- Is this good Quality of Care?
- Assessing perceptions and experience of Quality of Care
- Approaches and Methods to improve Quality of Care for Mothers and Babies

#### Module 2: Maternal Death Audit

- Conducting maternal death audit
- Introduction to the ICD-MM Classification of cause of death
- Application of the ICD-MM Classification of cause of maternal deaths
- The three delay model
- Beyond the Numbers

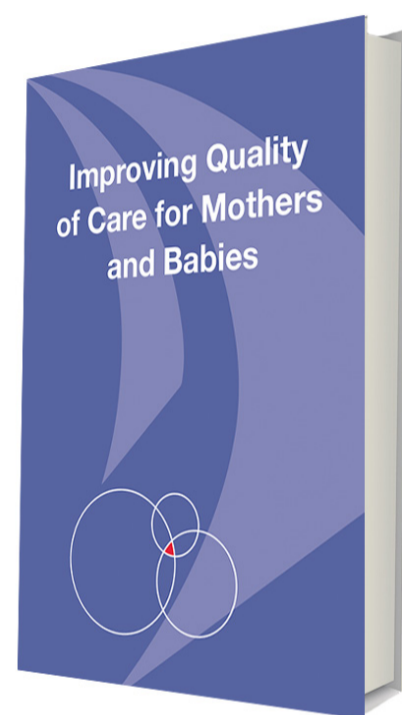
#### Module 3: Perinatal Death Audit

- Introduction to perinatal mortality
- Perinatal death audit or review
- Classification of cause of and factors contributing to stillbirth and neonatal death

#### Module 4: Standards-Based Audit

- How to develop Standards for Audit
- Developing standards
- How to do Standards-based Audit
- Planning for Standards-based Audit in your health facility

200 pages (paperback) • ISBN 978-0-9927545-2-5 • **Publication date:** November 2015



## Making it Happen with Data

**Edited By:** NR van den Broek and BN Madaj

This manual serves both as a workbook and reference for future use. It includes a series of lecture notes and exercises to help the healthcare provider work through a series of topics such as: maternal and newborn health indicators collected at the global and national level and how these compare across the countries; the role of monitoring and evaluation; how data is collected and summarised; and the importance of good and reliable data.

### The Contents:

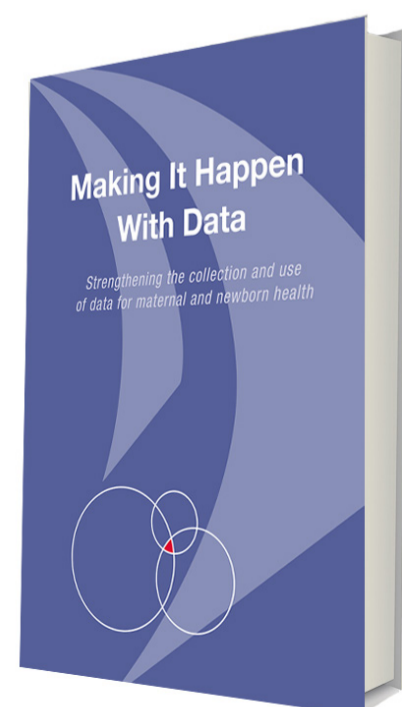
**Chapter 1: Maternal and Newborn Health: What Do We Measure?**

**Chapter 2: What is Monitoring and Evaluation?**

**Chapter 3: Data Collection and Use**

**Chapter 4: "Poor Data is No Data"**

180 pages, paperback • ISBN 978-0-9927545-0-1 • **Publication date:** June 2014





***“This series of manuals from CMNH provides practical tools and training for healthcare providers and managers working in resource-poor settings. I recommend this series to all those working to improve the availability and quality of healthcare for women and babies.”***

**Professor Sir Sabaratnam Arulkumaran, President of FIGO**

(The International Federation of Gynecology and Obstetrics)

Other comments about the series:

***“Emergency Obstetric and Newborn Care training has helped re-shape the mentality of health workers ... that maternal death is not an inevitable consequence of pregnancy and labour. The training has assisted team working and empowered workers to speak up about substandard practice and to be confident about how they themselves practice.”***

UK Volunteer

***“The skills based, short nature of the ... course, compared to much longer theoretical courses available in country, is very attractive to healthcare providers in Bangladesh.”***

NGO Partner, Bangladesh

***“ ... is the best thing that has ever happened to Kenya in MNH. It is highly valued and has succeeded in demystifying MNH.”*** Ministry of Health, Kenya

***“Following Emergency Obstetric and Newborn Care training and Quality Improvement workshops we have seen some reduction in the maternal and neonatal deaths this year. We have only four maternal deaths now unlike last year this time around we had eleven.”***

Healthcare provider, Malawi

***“All sessions are useful and important. Reasons: we need to understand the indicators from the data we should collect. We need data for planning and decision making. We need to analyse own data and communications.”*** Healthcare provider, Sierra Leone

Further information can be accessed through LSTM Centre for Maternal & Newborn Health

Email: [cmnh@lstmed.ac.uk](mailto:cmnh@lstmed.ac.uk) Website: [www.mnhu.org](http://www.mnhu.org)

**The Centre for Maternal & Newborn Health is a WHO Collaborating Centre  
and winner of the BMJ Women's Health Award 2015**

