Global Maternal and Child Health:
Medical, Anthropological, and Public Health Perspectives
Series Editor: David A. Schwartz

Kim Gutschow Robbie Davis-Floyd Betty-Anne Daviss *Editors*

Sustainable Birth in Disruptive Times



Global Maternal and Child Health

Medical, Anthropological, and Public Health Perspectives

Series Editor:

David A. Schwartz Department of Pathology Medical College of Georgia Augusta University Augusta, GA, USA Global Maternal and Child Health: Medical, Anthropological, and Public Health Perspectives is a series of books that will provide the most comprehensive and current sources of information on a wide range of topics related to global maternal and child health, written by a collection of international experts. The health of pregnant women and their children are among the most significant public health, medical, and humanitarian problems in the world today. Because in developing countries many people are poor, and young women are the poorest of the poor, persistent poverty exacerbates maternal and child morbidity and mortality and gender-based challenges to such basic human rights as education and access to health care and reproductive choices. Women and their children remain the most vulnerable members of our society and, as a result, are the most impacted individuals by many of the threats that are prevalent, and, in some cases, increasing throughout the world. These include emerging and re-emerging infectious diseases, natural and man-made disasters, armed conflict, religious and political turmoil, relocation as refugees, malnutrition, and, in some cases, starvation. The status of indigenous women and children is especially precarious in many regions because of ethnic, cultural, and language differences, resulting in stigmatization, poor obstetrical and neonatal outcomes, limitations of women's reproductive rights, and lack of access to family planning and education that restrict choices regarding their own futures. Because of the inaccessibility of women to contraception and elective pregnancy termination, unsafe abortion continues to result in maternal deaths, morbidity, and reproductive complications. Unfortunately, maternal deaths remain at unacceptably high levels in the majority of developing countries, as well as in some developed ones. Stillbirths and premature deliveries result in millions of deaths annually. Gender inequality persists globally as evidenced by the occurrence of female genital mutilation, obstetrical violence, human trafficking, and other forms of sexual discrimination directed at women. Many children are routinely exposed to physical, sexual, and psychological violence. Childhood and teen marriages remain at undesirably high levels in many developing countries.

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Sustainable Birth in Disruptive Times



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The Labor & Delivery room at Sonam Norbu Memorial Hospital in Leh, Ladakh, India in 2006 (top) and 2019 (bottom). The upper image shows two tables for delivery, the stirrups that women were required to use for most deliveries, buckets for absorbing blood, and other bodily fluids during the delivery, as well as wooden tray used to measure newborns on the right-hand table. The lower image shows the brand new Labor & Delivery room that was part of an entirely new hospital construction that followed partial destruction of the hospital during the catastrophic Leh flash floods in 2010. Published with permission from © Kim Gutschow. All Rights Reserved.

From Kim Gutschow:

This book is dedicated to the childbearers, providers, and babies, born and unborn, past, present, future, for their care and compassion.

From Robbie Davis-Floyd:

This book is dedicated to my culture heroes Robin Lim and Vicki Penwell, who have developed and practiced sustainable models of birth, saved countless lives, and brought love, light, and joy to the thousands of people who experienced their care, even in the most disruptive of times.

From Betty-Anne Daviss:

This book is dedicated to all of our grandchildren in the hope that they will understand that social activism is as important as education, regulation, and association.

Acknowledgments

Kim Gutschow is profoundly grateful to the women and providers—midwives, obstetricians, nurses, neonatologists in the USA, India, Germany, Nepal, and elsewhere—who have participated in countless conversations on maternity care and MNCH (maternal, neonatal, and child health) over the past 16 years. She deeply thanks the doctors—Dr. Michelle Lauria, Dr. Torren Rhodes, and Dr. George Little (coauthor of Chapter 19)—who helped steward her vaginal delivery of 26-week-old breech twins who spent 77 days in the NICU at Dartmouth-Hitchcock Hospital in 2004. Subsequent conversations with these and other providers helped shape her research into the anthropology of maternal and newborn health and reproduction. She is so very grateful to Robbie and Betty-Anne for their inspirational work and wonderful friendship, cemented in 2015 on a train journey from Bad Wildbad, Germany, that helped conceive this book. Last but not least, she thanks her family—her children Tashi, Krishan, and Yeshe as well as her partner Robin Sears—for their support and many questions about how the book was coming to fruition in past years.

Robbie Davis-Floyd is deeply grateful to lead editor Kim Gutschow for her long-term dedication to seeing this book through to completion, for her international understanding of the issues surrounding sustainable birth—which enabled her to invite just the right authors for the chapters in this collection—for her outstanding editing skills, and for her ongoing friendship. She is also grateful for that train trip from Bad Wildbad—it is amazing what people can come up with when their brains are moving as fast as that fast-moving train!

Betty-Anne Daviss would like to thank her coeditors for their patience with her as they did the main work on this book while she was finishing another book, Birthing Models on the Human Rights Frontier: Speaking Truth to Power (BMHRF). She sees BMHRF as highly complementary to this volume, yet different in that it often takes a more iconoclastic approach and proactively calls people to action. Both styles are needed. She finds that a book focusing on sustainability is critical, given that some of the optimal birth models in BMHRF have already been threatened by the neoliberal economic values that plague healthcare funding. Betty-Anne would also like to thank a casualty of those problems, traditional midwives the

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world over, whose work often goes unnoticed and disrespected at best; at worst, many are being persecuted and arrested. Finally, she would like to thank her husband, Ken Johnson, a steadfast support, who reminds her, when she engages with Kim and Robbie in trying to fix everything in the world, that Marshall Klaus said: "Opinion divides, data unites."

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Kim Gutschow, PhD, is a Lecturer in Anthropology and Religion and affiliated with Public Health, Asian Studies, and Women's, Gender, and Sexuality Studies at Williams College, in Williamstown, Massachusetts, where she has taught since 2003. Since 1989, she has published over 35 articles on maternity care, maternal death reviews, and counting maternal mortality in India and the USA, as well as on the gender dynamics and discourses of Buddhist monasticism, Tibetan medicine, community-based irrigation, and land use practices in the Indian Himalayas. She is the author of Being a Buddhist Nun: The Struggle for Enlightenment in the Himalayas (Harvard 2004) which won the Sharon Stephens Prize for best ethnography (2005). Her collaborative research projects with Ladakhi teams have received several awards including a Humboldt Research Fellowship for Experienced Researchers (2009) for Birth: From Home to Hospital and Back Home Again; a National Geographic Award (2019) for "Climate Change Adaptation: By the People & For the People"; as well as a postdoc at the Harvard Society of Fellows (1997–2000) for research on gender, social power, and birth in the Indian Himalayas. She raised \$100,000 for Zangskari women and nuns through the Zanskar Project from 1991 to 2015 (https://gadenrelief.org/project/ zangskar-project/).



Robbie Davis-Floyd, PhD, Senior Research Fellow, Department of Anthropology, University of Texas at Austin, and Fellow of the Society for Applied Anthropology, is a well-known medical anthropologist, midwifery and doula advocate, and international speaker and researcher in transformational models in maternity care. She is author of over 80 journal articles and 24 encyclopedia entries, and of Birth as an American Rite of Passage (1992, 2003) and Ways of Knowing about Birth: Mothers, Midwives, Medicine, and Birth Activism (2018); coauthor of The Power of Ritual (2016); and lead editor of 13 collections, including the award-winning volumes Childbirth and Authoritative Knowledge (1997) and Cyborg Babies (1998), and the "seminal" Birth Models That Work (2009). Her most recent collection, coedited with Melissa Cheyney, is Birth in Eight Cultures (2019). Birthing Models on the Human Rights Frontier: Speaking Truth to Power, coedited with Betty-Anne Daviss, is in press. As a Board Member of the International MotherBaby Childbirth Organization, Robbie served as lead editor for the "International Childbirth Initiative: 12 Steps to Safe and Respectful MotherBaby-Family Maternity Care" (a joint IMBCO/ FIGO global initiative). She presently serves as lead editor for a Routledge series called "Social Science Perspectives on Childbirth and Reproduction" and as senior advisor to the Council on Anthropology and Reproduction. Many of her published articles are freely available on her website: www.davis-floyd.com.



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Hemorrhage when she worked for the International Federation of Gynecology and Obstetrics (FIGO) (Lalonde et al. 2006), which continues to be used with updates, and was the co-principal investigator and principal writer for the Frankfurt study comparing vaginal breeches born with the mothers on their backs versus in upright positions (Louwen et al. 2017). The only midwife in Canada in the last two decades to have achieved official hospital privileges to attend breech births without a transfer to obstetrics, Betty-Anne has been involved with over 170 planned vaginal breech births, and provided workshops, rounds, and/or plenaries on vaginal breech in Europe, Africa, North and South America, China, India, Australia, and Turkey. She has testified for 10 midwifery hearings/court cases and 11 state and 3 provincial legislative processes. Some of her published articles are freely available on her website: www.understandingbirthbetter.com.

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List of Acronyms

AAP American Academy of Pediatrics

ANM Auxiliary Nurse Midwife

ACOG American College of Obstetrics and Gynecology

BEmOC Basic Emergency Obstetric Care

CDC Centers for Disease Control and Prevention
CEMOC Comprehensive Emergency Obstetric Care
CPAP Continuous Positive Airway Pressure
CPMs Certified Professional Midwives

EFM Electronic Fetal Monitoring

EMDR Eye Movement Desensitization and Reprocessing

EmOC Emergency Obstetric Care
ENC Essential Newborn Care
ECEB Essential Care for Every Baby
ECSB Essential Care for Small Babies

FIGO International Federation of Gynecology and Obstetrics

GDA Global Development Alliance
HBB Helping Babies Breathe
HBS Home Birth Summit
HIC High-Income Countries

ICI International Childbirth Initiative

ILCOR International Liaison Committee on Resuscitation

KMC Kangaroo Mother Care LBW Low Birthweight

LMIC Low- and Middle-Income Countries

MAWS Midwives Alliance of Washington State

MEAC Midwifery Education Accreditation Council

MMR Maternal Mortality Ratio (maternal deaths/100,000 live births)

NOS Network of Safety NR Neonatal Resuscitation

NMR Neonatal Mortality Ratio (neonatal deaths/1000 live births)

NRP Neonatal Resuscitation Program

xxx List of Acronyms

OOH Out-of-Hospital

PPV Positive Pressure Ventilation

QI Quality Improvement

RART Right Amount at the Right Time

SC Scheduled Caste

SDG Sustainable Development Goals

SGA Small for Gestational Age

SSC Skin-to-Skin Care
ST Scheduled Tribe
TLTL Too Little Too Late
TMTS To Much Too Soon

WHO World Health Organization

Chapter 1 Introduction: Sustainable Birth in Disruptive Times



1

Kim Gutschow and Robbie Davis-Floyd

Our volume addresses the ongoing crisis in maternity care in language that calls to mind a brief manifesto on sexual and reproductive health and justice in these disruptive times:

Only when public health responses to COVID-19 leverage intersectional, human-rights centered frameworks, transdisciplinary science-driven theories and methods, and community-driven approaches, will they sufficiently prevent complex health and social adversities for women, girls, and vulnerable populations. (Hall et al. 2020: 1176)

While this statement was composed in response to the raging COVID-19 pandemic, it applies as much to our volume. Our volume is *intersectional*, for we illustrate how different social hierarchies—of wealth, sexism, racism—intersect to produce suffering and harm for women, newborns, and providers across the globe. We adopt a *human rights framework* as every chapter shows, implicitly or explicitly, that women's rights are human rights, that marginalized communities suffer the most when human rights are denied, or that human rights in healthcare are on a collision course with the privatization of health care. Our volume is *transdisciplinary* because our 50 authors include a range of researchers with clinical, academic, and policy expertise, including midwives, nurses, obstetricians, pediatricians, neonatologists, medical anthropologists, sociologists, public health researchers, social workers, activists, and policy makers. Our volume is *science-driven*, as it builds upon and reflects the recent scientific consensus on maternal and newborn health that we outline below.

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Last but not least, our approach is *community-driven*, as we provide models of birth or maternity care that are based in local and participatory knowledges and practices.

The COVID-19 crisis reveals preexisting dysfunctionalities in maternity care that we address. Even more importantly, the disruptions of COVID-19 offer a turning point where practices can be shifted in dramatic ways that address long-standing problems and concerns. We know that hospitals are major sites of contagion, and yet for nearly 50 years, global health experts have advocated for hospital-based births across the world rather than advocating for a mix of sites including hospitals, maternity care clinics, freestanding birth centers, and home births. Similarly, the broad push for obstetric care in the twentieth century (Davis-Floyd and Cheney 2019; Devries et al. 2001; Berry 2010, Wendland 2010) has systematically sidelined midwives. Yet the recognition that midwifery care can avert 80% of the maternal and newborn deaths and stillbirths across the globe (Homer 2014) with higher-quality care and lower cost than existing obstetric models of care deserves our attention in this era of scarcity and disruption.

It is now obvious that a more decentralized approach to birth—involving free-standing birth centers or primary care clinics, home settings, and midwifery care for low-risk women with access to higher level facilities where needed—produces better outcomes and is more cost effective and woman-centered. In large world regions, such as sub-Saharan Africa and South Asia, only 57% and 72% of all births, respectively, are facility based. In most countries, there are large rural-urban and wealth disparities in maternal outcomes that midwifery care can address more sustainably than obstetric care, given the shortage of obstetricians and the high costs of training them and having them unnecessarily attend low-risk births (Homer 2014; UNICEF 2020).

Across the globe, in high-income countries (HIC) as well as low- and middle-income countries (LMIC), training midwives and promoting out-of-hospital (OOH) births at freestanding birth clinics or at home is more sustainable and feasible than hiring obstetricians and building costly hospitals. In sub-Saharan Africa alone, it was estimated that 300,000 more midwives would be needed by 2035 just to achieve 75% skilled attendance at birth (Hoope-Bender et al. 2014). This volume emphasizes innovative, resilient, and sustainable models of maternity care that can flourish amidst scarcity and disruption. It overturns conventional policies about maternity care that have become as pervasive as they are ineffective. It considers why lean, flexible midwifery-based models of care are needed now more than ever before.

1.1 Sustainability and Disruption

We privilege *sustainability* and *disruption* to highlight two rather different but coexisting social trends. We define *sustainable* as characterized by improving outcomes for mothers and newborns while lowering costs in human and financial terms. In accord with the focus on sustainability reflected in the Sustainable Development Goals (SDGs), we understand as sustainable *those solutions that can be scaled up or across similar settings while adapting to local cultural contexts in ways that*

preserve an ecological balance between mothers, newborns, families, and providers. Our order of importance is intentional: mothers' and newborns' rights and health come first, followed by the health and needs of families and providers (see our Appendix on the foundational principles of the International Childbirth Initiative or ICI). Many of our essays focus on providers' rights and protocols, as we recognize that most healthcare settings privilege the authority of providers over mothers or their families (Davis-Floyd 2018). The maternity care models described in this volume are sustainable because they respond to and work with the ongoing social disruptions caused by shifting and intersectional dynamics of income, gender, sex, race, and power, as well as climate change, political conflict, and migration in many locations.

Each chapter in our volume explicitly addresses *sustainability* via a different paradigm or model of care. Sustainability can mean the ability to be scaled up or across a variety of settings from home to hospital as in our chapters on Nepal, India, Guatemala, or Mexico or across different cultural contexts such as in our chapters on Nepal, South Africa, and the United States. Sustainability should mean holistic and humanistic care that centers women's needs and agency while mitigating provider burnout. Sustainability can imply lean and flexible maternity care that can be set up or shifted quickly when disasters or pandemics destroy or disable healthcare institutions as illustrated in Chap. 19 and during the COVID-19 pandemic (Davis-Floyd et al. 2020). Sustainability can mean adapting care so that midwives and obstetricians collaborate rather than compete, as demonstrated in Chap. 3 on sustainable breech care, Chap. 4 on sustainable transfers of care in the United States, Chaps. 5 and 14 on midwives and obstetricians collaborating in the Netherlands and India, and Chaps. 9 and 10 that describe innovative hospitals incorporating humanistic care and midwifery care in Chile and Argentina.

Sustainability should mean adopting practices that conserve costs, eliminate interventions, reduce redundancies in care, and recognize the knowledge and skill of midwives in supporting women's health and rights. Sustainability can mean a model of doula care created by and for women of color that reduces interventions, helps women of color combat racism in hospitals, and provides employment to previously incarcerated women and women of color as illustrated in our chapter on innovative models of doula care in California, USA. Sustainability can mean improving provider skills or shifting provider practices through stakeholder participation and input, as illustrated in our chapters on India, the United States, South Africa, Argentina, and Guatemala. Sustainability can mean metrics that slowly shift maternity care in the United States towards evidence-based practices, thereby reducing iatrogenic harm and cutting costs in the United States, which has some of the highest maternity care costs and some of the worst maternal and neonatal outcomes in high-income countries (HIC) (WHO et al. 2015; UNICEF 2019). Sustainability can mean overcoming discrimination against indigenous women, women of color, and low-caste women via the provision of compassionate, skilled, and communitybased care—as illustrated in our chapters on the United States, India, Mexico, Guatemala, South Africa, Nepal, Indonesia, and the Philippines. Sustainability can mean a femifocal model of care that emphasizes reproductive rights, women's and