

CHARLOTTE E WARREN. PHD, MED, RSCN, RGN, ON (2017)

Population Council
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One of Population Council's lead social scientists in maternal and newborn health (MNH), a nurse (UK Registered Sick Children's Nurse, Registered General Nurse and Obstetric Nurse), Masters in Primary Health Care (Bristol University, UK), and a PhD in Health Sciences (Ghent University); has over 30 years of public health implementation experience and focuses on developing innovative solutions to improving access to reproductive, maternal, newborn and child health services in low income countries. Dr Warren is the director of the 5-year Ending Eclampsia Project (funded by USAID) which seeks to expand access to proven, underutilized interventions and commodities for the prevention, early detection, and treatment of pre-eclampsia and eclampsia and strengthens global partnerships. Research on preeclampsia is underway in 5 countries. She is the PI for the Council's work on the USAID funded Fistula Care *Plus* project researching ways to improve access to fistula repair services in Nigeria and Uganda. She also led the ground breaking study on measuring the prevalence of mistreatment of women during childbirth in Kenya, including developing solutions to promote respectful maternity care. The success of this project has resulted in national scale up of evidence based interventions in Kenya and influencing international policy through the WHO's statement on reducing mistreatment of women during childbirth in 2014. Warren has extensive experience planning, designing and managing research, policy, and program development in MNH, and integrated SRH services, with a particular focus on Africa. She has experience in program management, training and quality assurance, conducting implementation research, evaluation, design of models of health care and emergency public health.

Summary of Experience:

- ✓ 30 years' experience in public health.
- ✓ Worked/based in health care/research settings in LIMC over 17 years in sub Saharan Africa.
- ✓ Widely consulted internationally, regionally and nationally on MNH and RH issues
- ✓ Published/co-published on MNH/RH issues including presenting at international conferences
- ✓ Director/Principle Investigator in the following projects/studies:
 - *Ending Eclampsia; to expand access or the prevention, early detection, and treatment of pre-eclampsia and eclampsia and strengthens global partnerships.* 2014-2019 (USAID)
 - *Reducing barriers to fistula repair in Nigeria and Uganda* 2014-2018 *Fistula Care Plus* (EngenderHealth)
 - *Measuring disrespect and abuse during childbirth in Kenya* 2011-2016 (USAID through TRAction Project)
 - *Assessing the benefits and costs of integrating HIV/SRH services* 2008 – 2016 Kenya/Swaziland; (BMGF)
 - *Evaluation of voucher and accreditation interventions applied to RH service delivery platforms* 2009 -2015; Kenya Voucher project (supported by BMGF)
- ✓ Experience in developing: tools for RH research standards and quality of care, guidelines, job aids
- ✓ Extensive experience in managing collaborative programmes with bilateral donors, UN organisations, Ministries of Health, academic institutions and international NGOs
- ✓ Member of global, regional and national technical working groups/task forces on MNH.

Employment Record:

Population Council, Senior Associate MNH. Reproductive Health, DC office: October 2012 to date;
Nairobi Office Associate: Sept 2001 to Sept 2012;

Director of the Ending Eclampsia project – strengthening global partnerships – and overseeing implementation research on prevention and treatment of pre-eclampsia and eclampsia, in low and middle income countries. Other responsibilities include: Planning, development and management of RH research programs with a focus on MNH and strengthening of health systems. Has expertise in investigating ways to integrate services (MNH, FP and HIV) developing concepts, designs, proposals and writing for RH/MNH/FP and primary health care (PHC). Plays a leadership role in developing the Council's credibility in the areas of detection and management of pre-eclampsia and eclampsia, overcoming barriers to fistula treatment, , measuring the prevalence of disrespect and abuse during childbirth in Kenya, developing solutions to promote respectful maternity care, of vouchers for financing, community health and in promoting attention to the postpartum period; co-founder of the community midwifery approach in Kenya to support skilled midwives to help pregnant women to deliver safely at home; facilitated and coordinated the development of a wide range of training materials specifically the third edition of BCS+ and mentorship toolkit for integrated HIV/SRH services. Regarded as an expert in the field of MNH is widely consulted in the region receives ongoing requests to make presentations in USA, Europe and SSA on PHC, MNH, SRH/HIV integration.

Department for International Development, Nairobi, DFID Associate Professional Officer (seconded to Population Council, Nairobi) May 2000 to Sept 2001

In addition to working on DFID Safe Motherhood Demonstration Project with Population Council, responsibilities include providing TA to DFID Health Advisors managing other DFID-Kenya RH projects.

Humanitarian Aid Department Oxfam, GB, Public Health Advisor, June 1999 - April 2000

Responsibilities include providing advice and guidance on a wide range of public health issues to the Oxfam Eastern Europe Team during the Balkans crisis in EPI, control of communicable diseases and child health. Assisted in the development of programme for displaced people in Kosovo and Macedonia; Provided Emergency PH Assessment in Mozambique in 2000 during major flooding to assess the PH risks for displaced people (70,000) and developed proposals including malaria control; recruiting emergency health field staff for Albania, Macedonia, Kosovo, Serbia, Timor, Orissa, Sudan, Sierra Leone, Eritrea & Ethiopia;

Save the Children Fund/DFID PHC Programme Officer, Angola July 1996 - Sept 1997

Responsibilities include providing TA to Municipal and Provincial Health Teams in development of Primary Health Care system as part of Health Transition Project. Rehabilitation, equipment and support to 20 health facilities in three municipalities. This included a plan for improving PHC specifically MNH, EPI, Essential drug procurement, rationalisation and distribution; health care providers' skills updates in resource poor setting. Capacity building for MOH staff: training, management, planning, evaluation, information systems, epidemiological surveillance and implementing health strategies with WHO.

Merlin: Field Nurse, Gisenyi, and Rwanda March to June 1995: Coordinated health activities in Transit Camp for 12000 returnees from Zaire/DRC. Provided maternity care to female returnees, curative care and re-instating the EPI programme, nutritional assessment. Responsible for: commodity procurement plan, recruitment and training of staff and rehabilitating and setting up the above services in three health centres.

VSO: Nurse i/c PHC Programme, Suba County, Kenya. 1986 to 1988: In charge of a health facility and outreach services for a lakeside/rural community: MCH -FP, EPI, curative care and health promotion.

Save the Children Fund, UK: Field Nurse Refugee Camp Saffawa, East Sudan 1985: In charge of feeding centres for 2000 children, set up paediatric unit and intensive feeding centre, EPI, nutrition surveys and health education.

Consultancy Experience:

JSI (UK) Attended, reviewed and reported on ‘Reduction in Maternal Mortality Symposium’ in the context of SWAp in Maputo, Mozambique on behalf of DFID November 2001.

Oxfam, GB Emergency Public Assessor, Nicaragua Nov - Dec1998 Responsible for conducting Emergency Health assessment, post "Hurricane Mitch" for risks of outbreaks of communicable diseases. Developed and initiated several projects to assist communities affected by the hurricane.

DFID, ELMT Health Coordinator, Sierra Leone, July 1998 to October 1998 and May 1999
PH programme manager for the DDR Programme involved in the de-mobilisation of 5000 soldiers. Coordinated public health activities: commodity procurement, preventive and curative care. Involved all stakeholders in developing systems for the re-integration of ex combatants; collaborated with MOH/WB.

UK Experience

Princess Margaret NHS Trust, Swindon UK, Community Paediatric Nurse January to June 1996

I assisted in setting up a day care unit; co-ordinated and managed care of chronically sick children at home.

Member Primary Health Care Team; General Practice, Wiltshire Family Health Authority Practice Nurse 1990 –1994; Sept 1997 - July 1998; Dec 1998 – April 1999: Responsible for triage in general practice, health promotion and immunisation programme.

Great Ormond St Hospital Staff Nurse for surgical paediatric ward November 1983 – February 1985.

Education & Qualifications:

2015 **PhD in Health Sciences, Ghent University Belgium**

1999 **Capacities for Managing Development** one module from Open University Masters (MSc) course in Global Development (merit)

1995 **M.Ed - Specialist Programme in Primary Health Care,** Bristol University, England

1984 **Tropical Medicine for Nurses (certificate)** London School of Tropical Medicine and Hygiene, Keppel Street London. UK

1983 **Registered Sick Children Nurse (RSCN)/Registered Nurse (RN)/Obstetric Nurse (ON)** A combined course: Paediatrics at Hospitals for Sick Children, Great Ormond St; Adult at Middlesex Hospital; Obstetrics at Queen Charlotte’s Maternity Hospital, London.

(UK) Professional Membership and Affiliations: Nursing and Midwifery Council PIN: 78L0213E 8

<i>Languages:</i>	Speak	Read	Write
English	Mother Tongue	Mother Tongue	Mother Tongue
Portuguese	Basic	Basic	Basic
French	Basic	Basic	Basic

Selected Publications:

1. Zoe Baker Bellows B., Bach R., **Warren CE.**, *Barriers to obstetric fistula treatment in low-income countries: A systematic review.* Tropical Medicine & International Health under final review April 2017.
2. **CE Warren**, J Hopkins and SH Mayhew. *The Current Status of SRH-HIV Integration Research.* Studies in Family Planning 2017 (accepted)
3. **CE Warren**, J Hopkins, M Narasimhan, L Collins, I Askew and SH Mayhew *Health systems and the SDGs: lessons from a joint HIV and Sexual and Reproductive Health and Rights response.* Heal Pol and Plan 2017
4. **CE Warren**, R Njue, C Ndwiga and T Abuya. *Manifestations and drivers of mistreatment of women during childbirth in Kenya: implications for measurement and developing interventions.* BMC Preg and Childbirth 2017
5. Church K, **CE. Warren**, I Birdthistle, G Ploubidis, K Tomlin, W Zhou, J Kimani, T Abuya, C Ndwiga, S Sweeney, and SH. Mayhew *Impact of Integrated Services on HIV Testing: A Nonrandomized Trial among Kenyan Family Planning Clients.* Studies in Family Planning 2017
6. Katharine J McCarthy, Ann K Blanc, **Charlotte E Warren**, James K Kimani, Brian Mdawida and Charity Ndwiga. *Can surveys of women accurately track indicators of maternal and newborn care? A validity and reliability study in Kenya.* J Global Health 2016
7. **Warren Charlotte E.**, Sripad P., Mwangi A, Ndwiga C., Bellows B., Liambila W., “*Sickness of shame*”: *investigating challenge and resiliency amongst women living with obstetric fistula in Kenya.* Chapter in book, “Global perspectives on women's reproductive and sexual health across the life course. Forthcoming 2016.
8. Mayhew SH, GB. Ploubidis A Sloggett, K Church, Carol D. Obure, I Birdthistle, S Sweeney, **CE. Warren**, Charlotte Watts, Anna Vassall1, Integra Initiative. *Innovation in Evaluating the Impact of Integrated Service-Delivery: The Integra Indexes of HIV and Reproductive Health Integration.* PLOS One 2016.
9. Abuya, T, Ndwiga C., Ritter J., Kanya L., Bellows B., Binkin N., **Warren C.**, *The effect of a multi-component intervention on disrespect and abuse during childbirth in Kenya* BMC Pregnancy and Childbirth 2015
10. Kimani, J, **Charlotte Warren**, T Abuya, R Mutemwa, S Mayhew, I Askew, on behalf of Integra “*Family planning use and fertility desires among women living with HIV in Kenya*” BMC Pub Health 2015
11. Kimani J., Warren, CE. Abuya T., Ndwiga C., Mayhew SH., Vassall A., Mutemwa R., Askew I. *Use of HIV counseling and testing and FP services among postpartum women in Kenya: a multicentre, non-randomised trial.* BMC Women’s Health 2015
12. Francis Obare, **Charlotte Warren**, Lucy Kanya, Timothy Abuya and Ben Bellows “*Community-level effect of the reproductive health vouchers program on out-of-pocket spending on family planning and safe motherhood services in Kenya*” BMC Health Services Research 2015
13. **Charlotte E Warren**, Timothy Abuya, Rebecca Njuki et al “*A Cross Sectional Comparison of Postnatal Care Quality in Facilities Participating in the Maternal Health Voucher Programs with Similar Control Facilities in Kenya*” BMC Pregnancy and Childbirth 2015
14. Claire Watt, Timothy Abuya, **Charlotte E. Warren**, Francis Obare, Lucy Kanya and Ben Bellows *Can Reproductive Health Voucher Programs Improve Quality of Postnatal Care? A Quasi-Experimental Evaluation of Kenya’s Safe Motherhood Voucher Scheme* PLoS ONE 2015;
15. Njuki Rebecca, Abuya Timothy, Kimani James, Kanya Lucy, Korongo Allan, Mukanya Collins, Bracke Piet, Bellows Ben, **Warren Charlotte.** *Does a voucher program improve reproductive health service delivery and access in Kenya?* BMC Health Services Research 2015
16. Abuya, T. **Warren, CE.** Njuki, R., et al *Exploring the Prevalence of Disrespect and Abuse during Childbirth in Kenya* Plos One 2015

17. Obure Carol Dayo , Sedona Sweeney, Vanessa Darsamo, Christine Michaels-Igbokwe, Lorna Guinness, Fern Terris-Prestholt, Esther Muketo, Zelda Nhlabatsi, Integra Initiative, **Charlotte E. Warren**, Susannah Mayhew, Charlotte Watts, Anna Vassall. *The Costs of Delivering Integrated HIV and Sexual Reproductive Health Services in Limited Resource Settings* Plos One 2015
18. Obare Francis, **Charlotte Warren**, Tim Abuya, Ian Askew, Ben Bellows. “*Assessing the population-level impact of vouchers on access to health facility delivery for women in Kenya*” Social Science & Medicine 2014.
19. Njuki Rebecca, Kimani James, Obare Francis, **Charlotte Warren**. *Using verbal and social autopsies to explore health-seeking behaviour among HIV-positive women in Kenya: a retrospective study* BMC Women's Health 2014
20. Kimani JK. Ettarh, R. **Warren, C.** and Bellows, B. *Determinants of Health Insurance Ownership among Women in Kenya: Evidence from the 2008-09 Kenya DHS*. Int Journal for Equity in Health 2014
21. **CE Warren**, T Abuya and I Askew “*Family planning practices and pregnancy intentions among HIV-positive and HIV-negative postpartum women in Swaziland: a cross sectional survey*” BMC Preg and Childbirth 2013
22. **Charlotte Warren**, R Njuki, T Abuya, et al “*Study protocol for promoting respectful maternity care initiative to assess, measure and design interventions to reduce disrespect and abuse during childbirth in Kenya*” BMC Pregnancy and Childbirth 2013
23. **CE Warren** SH Mayhew, A Vassall, et al *Study protocol for the Integra Initiative to Assess the Benefits and Costs of Integrating SRH and HIV Services in Kenya and Swaziland*. BMC Pub Health 2012
24. Rebecca Njuki, Francis Obare, **Charlotte E Warren** et al *Community experiences and perceptions of reproductive health vouchers in Kenya*. BMC Public Health 2012
25. Timothy Abuya, Rebecca Njuki, **Charlotte Warren**, et al “*A Policy Analysis of the Implementation of a Reproductive Health Vouchers Program In Kenya*” BMC Public Health 2012
26. Njuki R, Okal J, **Warren Charlotte E**, et al. *Exploring the effectiveness of the output-based aid voucher program to increase uptake of gender-based violence recovery services in Kenya: A qualitative evaluation* BMC Public Health. 2012.
27. Obare F, **Charlotte Warren**, R Njuki, T Abuya, J Sunday, I Askew and B Bellows “*Community-level impact of the reproductive health vouchers programme on service utilization in Kenya*” - Health Pol and Planning, 2012
B Bellows, C Kyobutungi, MK Mutua, **C Warren**, A Ezeh “*Increase in facility-based deliveries associated with a maternal health voucher programme in informal settlements in Nairobi, Kenya*” Health Pol and Planning, 2012
Charlotte Warren, Timothy Abuya , Francis Obare , Joseph Sunday , Rebecca Njue, Ian Askew and Ben Bellows “*Evaluation of the impact of the voucher and accreditation approach on improving reproductive health behaviors and status in Kenya*” BMC Public Health March 2011
28. Bellows Nicole, Ben Bellows and **Charlotte Warren** “*The Use of Vouchers for Reproductive Health Services in Developing Countries: Systematic Review*” Tropical Medicine & International Health Journal 2010
29. **Warren Charlotte**, “*Care seeking for maternal health: challenges remain for poor women*” in Ethiop J. Health Dev. 2010; 24 Special Issue 1:100-104
30. **Warren Charlotte** “*Care of the Newborn: community perceptions and health seeking behaviour*” Ethiop J. Health Dev. 2010; 24 Special Issue 1:110-114
31. **Warren, Charlotte**, Mwangi, A, Oweya E, et al, “*Safeguarding maternal and newborn health: improving the quality of postnatal care in Kenya*” International Journal for Quality in Health Care Dec 2009
32. G. Mazia; I. Narayanan; **C. Warren**; M. Mahdi; P. Chibuye; A. Walligo; P. Mabuza; R. Shongwe; M. Hainsworth “*Integrating quality postnatal care into PMTCT in Swaziland*” Global Public Health 2009.