

WHAT IS THE LIFE WRAP™?

The Life Wrap™* is a simple neoprene and Velcro device, much like the bottom half of a wet suit, split down the middle.



The Life Wrap™ is used to treat shock, resuscitate, stabilize and prevent further bleeding in women with ANY form of obstetric hemorrhage.

WHY STUDY THE LIFE WRAP™?

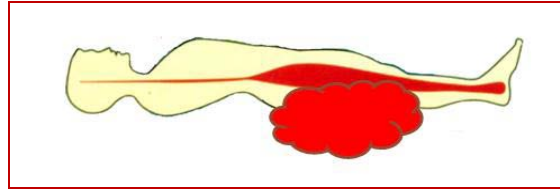
Each year over 500,000 women die due to complications of pregnancy and childbirth, 99% of these are in developing countries.

Maternal mortality is the leading cause of death for women of reproductive age in Asia and Latin America, and is the second leading cause of death for women in Africa. The leading cause of maternal mortality is obstetrical hemorrhage. A woman can bleed to death in two hours or less, and in rural areas, where hospitals may be hours away, this leaves little hope for women suffering from post-partum hemorrhage.

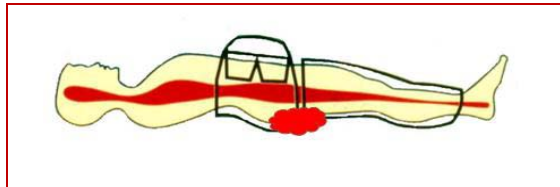
**also known as the non-pneumatic anti shock garment (NASG)*

HOW DOES THE LIFE WRAP™ WORK?

In decompensatory shock, the heart, lungs and brain are deprived of oxygen as the blood accumulates in the lower part of the body. In obstetric hemorrhage, blood also leaves the body through the vagina or pools in the retroperitoneal area.



The Life Wrap™ reverses shock by shunting blood from the lower extremities and abdomen to the heart, brain and lungs.



It reduces blood loss because it compresses the blood vessels. When the radius of a blood vessel is decreased, blood flow through the vessel is decreased.

HOW IS THE LIFE WRAP™ USED?

After a simple training session, anyone can put the garment on a bleeding woman. Once her bleeding is controlled, she can be safely transported to a referral facility for emergency obstetrical care.

PRELIMINARY RESULTS OF THE LIFE WRAP™ PILOT STUDIES

Since 2004, Suellen Miller, Paul Hensleigh, Janet Turan, Mohamed Fathalla, Oladosu Ojengbade, Mohammed Mourad, IO Morhason-Bello and their colleagues in Nigeria and Egypt have conducted pilot studies of the Life Wrap™.

Study participants who suffered severe obstetrical hemorrhage and shock were treated according to standard management or standard management AND the Life Wrap™.

There was a 50% decrease in bleeding and a 45% decrease in mortalities among the women treated with standard care AND the Life Wrap™.

These results are encouraging. However, larger randomized studies are needed that would provide the scientific, clinical and statistical data required for sound, evidence-based practice. A randomized controlled trial is being conducted in Zambia and Zimbabwe with Drs Gricelia Mkumba and Christine Kaseba of UTH, Lusaka, Dr. Thulani Magwali of UZ-UCSF, Harare and partners from WHO and CREP. Results are expected in 2012.



A STORY ABOUT THE LIFE WRAP

In Nigeria a woman who gave birth at home arrives at the emergency room bleeding heavily. She has no pulse, no blood pressure, is pale and cold. Her relatives leave and go outside to grieve her death.



The doctors in the hospital have just received the Life Wrap™, and place it on the woman. Within two minutes, her eyelids begin to flutter and she begins murmuring. The doctors call to her relatives, "She is alive!" The relatives return and rejoice. They tell her, "You need a new name. From now on you are AYORUNBO, she who has been to heaven and returned!"



advancing health worldwide™

DR. SUELLEN MILLER, DIRECTOR OF SAFE MOTHERHOOD PROGRAMS

Dr. Miller holds joint faculty appointments at the University of California, San Francisco (UCSF), School of Medicine, Department of Obstetrics, Gynecology and Reproductive Health Sciences and in the School of Public Health, Maternal and Child Health Program, University of California, Berkeley. Prior to joining the Berkeley faculty in 1997, she was a PEW Health Policy Postdoctoral Research Fellow at the Institute for Health Policy Studies, UCSF School of Medicine.

Dr. Miller is an experienced maternal health clinician with over 20 years of international experience in Africa, Asia and Latin America. Her research focus is on maternal health and obstetric hemorrhage. She has conducted a randomized trial of misoprostol for the prevention of post-partum hemorrhage in Tibet and has published numerous scientific articles on the use of the Life Wrap™ for obstetric hemorrhage and shock. She is currently conducting a large trial of the Life Wrap™ in Zambia and Zimbabwe. The author of peer-reviewed scientific journal articles and book chapters, she is co-author of the Hesperian Foundation's "A Book For Midwives," winner of the ACNM Notable Book Award.

*For more information or to send donations,
Please visit: www.lifewrap.org*

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REUSABLE...
AND IT SAVES LIVES.*



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