LifeWrap™ NASG

NON-PNEUMATIC ANTI-SHOCK GARMENT FIRST AID COMPRESSION DEVICE

The LifeWrap NASG (Non-Pneumatic Anti-Shock Garment) is a lightweight (1.5kg), washable and reusable first aid compression device made of Durapren™ fastened with velcro over a foam compression ball.

Once in place, the LifeWrap NASG applies enough circumferential counter pressure to decrease blood loss and reverse shock by increasing blood pressure to the heart, brain, and lungs. In so doing, it reverses hypovolaemic shock resulting from Obstetric Haemorrhage, and has proven effective in stabilising patients for up to 3 days, while patients are transported to a health centre with the ability to administer blood transfusions and provide definitive medical or surgical interventions.

THE 2012 WHO RECOMMENDATIONS FOR THE PREVENTION AND TREATMENT OF PPH INCLUDES USE OF THE NASG AS A TEMPORIZING MEASURE UNTIL APPROPRIATE CARE IS AVAILABLE.

The LifeWrap NASG offers a cost effective, easily applied, first-aid solution which can stabilise the patient for long enough to safely transport her to larger facilities for further care.

Ours is the most long lasting and cost effective product on the market.

INNOVATIVE

INTEGRATED

PRACTICAL

POSTPARTUM HAEMORRHAGE (PPH)

Postpartum Haemorrhage (PPH), commonly defined as blood loss of 500mls or more within 24hrs after birth, is the leading cause of maternal mortality in most low-income countries.

Approximately 2% of all pregnancies are affected by PPH and nearly one quarter of the 287,000 maternal deaths globally are associated with it. Most of these deaths occur within the first 24 hours of delivery as a result of complications in the third stage of labor.

When uteronic drugs are unavailable or are ineffective in preventing PPH, women can quickly undergo heavy bleeding and enter into hypovolaemic shock. The required medical interventions to treat such conditions are often not available in low-resource settings, where deliveries can occur far from health facilities, or where facilities do not have the necessary resources.

LifeWrap™ NASG

Fig 1) Blood Pressure conservation with vs without the LifeWrap NASG

HOW DOES IT WORK?

The NASG applies circumferential counter pressure to the lower body and uterus which increases circulating blood to the heart, lungs and brain and decreases the rate of blood flow in the abdomen and pelvis, thus decreasing blood loss.

"The NASG is a true life saving device for women in shock and close to death due to PPH. This is a major life saving support device, easy to administer by any health personnel and needs to be available for pregnant women everywhere and particularly in low resource countries."

Andre B. Lalonde, International Federation of Gynecology and Obstetrics' (FIGO)Committee for Safe Motherhood and Newborn Health (SMNH)Professor, Obs/Gyn, University of Ottawa and McGill University, Canada

PROVEN REDUCTION IN MATERNAL MORTALITY

Meta Analysis

UCSF and International Partners in Nigeria, Egypt, Zambia, Zimbabwe and India have documented the use of the NASG on over 5,500 women with severe haemorrhage and shock.

Using the case studies in these 5 countries, UCSF were able, with a quasi-experimental design (unrandomised) to study a cohort that comprised of 3,561 women suffering severe obstetric haemorrhage and hypovolaemic shock. About one third (1,227) of these women were in the most severe shock with evidence of decreased oxygen to their brain, heart and lungs. Of the total sample size, 45% were treated with standard care PLUS the NASG and 55% received standard care only.

The results showed a 38% decrease in mortality among women who received the NASG, while the reduction in mortality was even greater for those in the worst condition at 63%

META ANALYSIS CONCLUSION: At the Tertiary level, the NASG plus standard care significantly reduces mortality, especially for women in more severe shock. The Odds Ratio for mortality for all participants was OR 0.62, 95% CI 0.44-0.86, and OR 0.37, 95% CI 0.25-0.56 for the most severe cases.

For more information on this study – please go to the UCSF Safe Motherhood Program website, where you can download the entire study http://www.safemotherhood.ucsf.edu/publications/

El Ayadi, A; Butrick, E; Geissler, J; Miller, S. (2013) Combined Analysis of the Non-pneumatic Anti-Shock Garment on Mortality from Hypovolemic Shock Secondary to Obstetric Haemorrhage. BMC Pregnancy & Childbirth; 13(208).

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