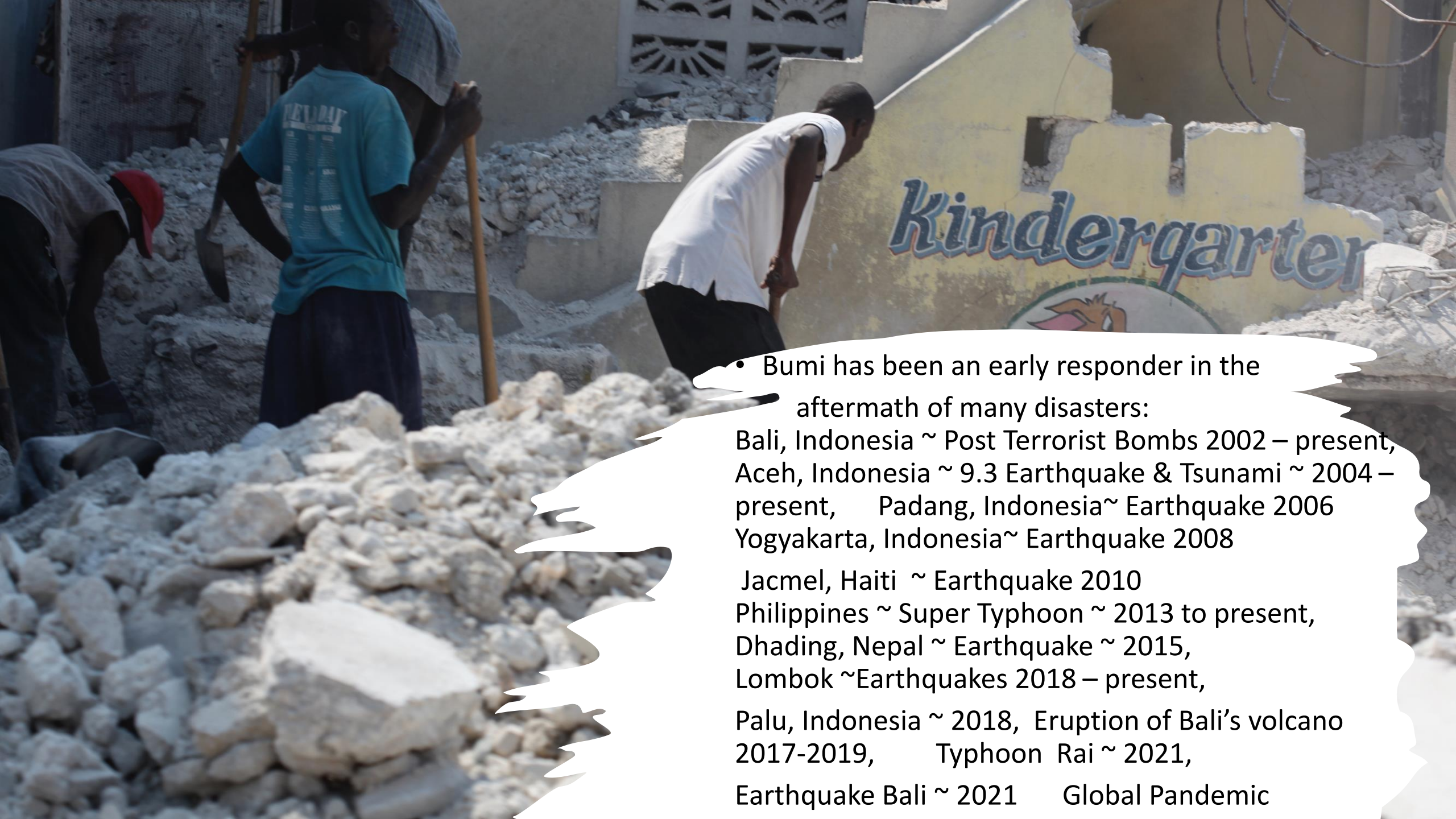


*Earthquake, Tsunamis,
Typhoons, Eruptions,
Fires, Floods, Conflicts,
Migrations, Pandemics,
Essential Midwifery
Skills Experience and
Practice in the Face of
Disaster*

Ibu Robin Lim CPM and Team
Bumi Sehat



**bumi
sehat**
FOUNDATION



- Bumi has been an early responder in the aftermath of many disasters:
Bali, Indonesia ~ Post Terrorist Bombs 2002 – present,
Aceh, Indonesia ~ 9.3 Earthquake & Tsunami ~ 2004 – present,
Padang, Indonesia ~ Earthquake 2006
Yogyakarta, Indonesia ~ Earthquake 2008
Jacmel, Haiti ~ Earthquake 2010
Philippines ~ Super Typhoon ~ 2013 to present,
Dhading, Nepal ~ Earthquake ~ 2015,
Lombok ~ Earthquakes 2018 – present,
Palu, Indonesia ~ 2018, Eruption of Bali's volcano 2017-2019,
Typhoon Rai ~ 2021,
Earthquake Bali ~ 2021 Global Pandemic

Women are hit hardest in disasters, so why are responses too often gender-blind?

The statistics are staggering; when disaster strikes, women and children are 14 times more likely than men to die. Let me use a real example: of the 230,000 people killed in the 2004 Indian Ocean Tsunami, 70 percent were women.

Asako Okai UN Assistant Secretary-General and Director, UNDP Crisis Bureau



Doula and Executive Director of Bumi Wadah Philippines Supports Mothers, Babies and Midwives.

Teen Mom Mharie Char had a serious hemorrhage following her baby's birth.



“Have you wondered why all the windows in heaven were broken? Have you seen the homeless in the open grave of God’s Hand?” ~ Kenneth Patchen

“Pernahkah kau bertanya kenapa semua jendela di surga pecah? Sudahkah kau melihat tuna wisma di makam terbuka Tangan Tuhan?”



A Child's Art
After surviving the
Indian Ocean Tsunami



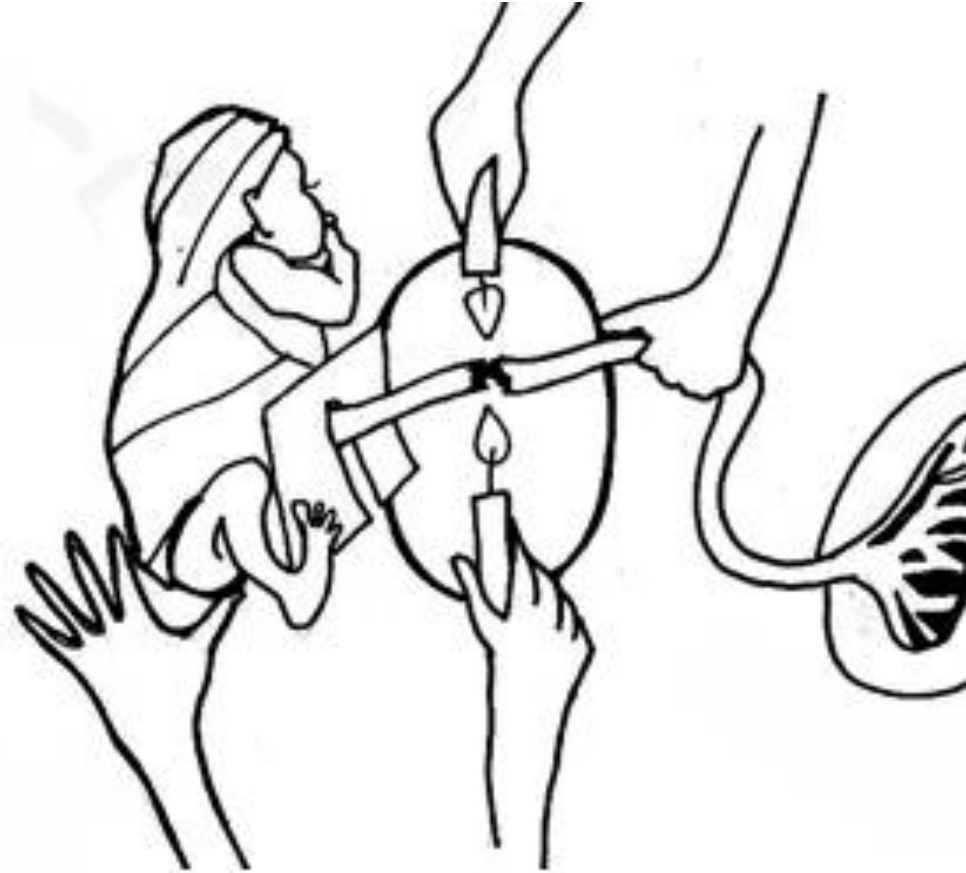
Government statistics say 14.5% of the total population of the Philippines is pregnant, that means over 2 million pregnant women were affected by Typhoon Yolanda aka Haiyan

- When pregnant women are left homeless, hungry, without water, hospitals, roads or hope... Midwives respond



• Delayed Umbilical Cord Cutting... Angel Hiromi Bumi Sehat, Papua, Indonesia

- + Safely burning umbilical cords, where sterilization of tools is not possible in disaster zones



- In the Aftermath of Earthquakes in Bali... Prenatal Care is Essential





In the Era of Climate Crisis Midwives are uniquely prepared to serve

- Bidan (Midwife) Budi Astuti in her home village, Gunung Sari, Lombok in the aftermath of disastrous earthquakes. Budi has served Rohingya refugee mothers in Bangladesh



When the world turns upside down, and hospitals are destroyed, Midwives must be prepared to receive breech babies.

- During the First Year in the Philippines Typhoon Haiyan Disaster
- 770 babies were born
- Hospital Transports in labor: 6

VBAC: 2 of the 770 Mothers in the Bumi Wadah Study had previous Cesarean Births.

14 Breech Babies were born in the Camp, received by the Bumi~Wadah midwives.



Ibu Elly lost two daughters in the Tsunami waters. Eleven months later, she had twin girls, Mawar(Rose) & Bunga(Flower) gently born in the remains of a home she shared with four families.



Shirley and her husband, with twins born safely in the Bumi Wadah Birth tent. Angela, held by her father, is in perfect health. Gian, in the arms of his mother, had many inoperable congenital irregularities of his spine, bowels, renal system and legs. He lived with love from his family for only a few days.



Dewi arrived at the ONE HEART WORLDWIDE birth tent in Dhading, Nepal, in strong labor with twins. Minutes later a 3 kg baby boy was born. Heart rate of the second twin dropped to 60 bpm. With the help of Nepalese Midwives and International Volunteer Midwives, the girl twin was safely born, resuscitated and thrived. Dewi required excellent midwifery care to stop hemorrhaging. We feel blessed she found the birth tent, after traveling over 3 hours in labor.



+ Pregnant women who do not have sufficient food, potable water or shelter are at greater risk for having premature and stillborn babies. First Nations Midwife Jacquelyn Aurora became our all-night Angel... helping the mothers pump breastmilk, to keep premie babies skin-to-skin and strong, until they could breastfeed normally.

Filipina Midwife Lorena survived Super Typhoon Haiyan and got right to work again. Here she receives a Baby in the birth tent, Dulag, Philippines.



+ On the day of the storm, midwife Joy pushed a new mother, a 1hr old baby, her husband, her toddler, a nurse and another midwife up into the rafters through this hole. The water rose to their feet, while the wind blew the corrugated roof away, but they survived.

We helped get many midwives to stand up on their feet again, by capacity building, sharing resources, and partnering with LOVE. At 7 Angels Clinic Midwife Joy Abuyobar ignores her own trauma, and still receives babies in ruins. Vicki Penwell being an amazing disaster relief 1st responder midwife.



Solar Lights and Water Filters Save Lives. Bringing Solar Light to 7 Angels Clinic

Bumi Sehat/Wadah partners with “We Care Solar” delivered 100 Solar Suitcases to damaged and dark Birth Clinics.

5000 Water filters a gift from “Wine to Water”.



We Partner with many NOGs on the ground, especially the local 1st responders, like the Rotary and the military soldiers. Direct Relief International proved brilliant in getting supplies of food and essential medicines to the people while forging lasting partnerships in the reduction of suffering. Every Mother Counts and Earth Company provide on-going support.



New mothers, sisters, who birthed within hours of each other at Bumi~Wadah birth camp. This is their home. 100% of our mothers lived in shelter cobbled together from tarps and scraps of tin. Bamboo and scavenged wood.



+ Non-pneumatic Anti-Shock Garment Saves Lives

Special Thanks to Suellen Miller for LifeWraps-NASG.com



Poverty ~ Disaster... need not Break
the Golden Chain of love Lombok, Indonesia



Before Bumi Sehat Lombok got a proper ambulance, babies were born and mothers were saved, in borrowed trucks.





Breastfeeding and complete postpartum support are essential, especially in a disaster or global pandemic



Early in the covid19 pandemic, in Sentani Papua there were no PPE available. The Bidan-bidan (midwives) of Bumi Sehat Papua wore raincoats and pants, to protect the patients and comply with regulations

Di Sentani Papua tidak tersedia APD. Bidan-bidan Bumi Sehat Papua memakai jas hujan dan celana, untuk melindungi pasien dan mematuhi peraturan



Bumi Sehat's Midwives of Angel
Hiromi~Bumi Sehat in Sentani
Papua go the distance for Mothers.





Midwife Lili Suebu rows to isolated communities on Lake Sentani, Papua, to care for MotherBabies

Midwife Farida Salman, loved by her Papuan families, lost her life to Covid19



+ Hope for the Future...Traditional Midwives of Aceh working heart & hands with the licensed midwives... a Bumi Sehat Aceh ongoing project. Breastfeeding support truly saves infant lives in disaster zones.

Bumi Sehat Aceh in 2005



Bumi Sehat Aceh in 2023





International Childbirth Initiative

**12 Steps to Safe and Respectful
MotherBaby-Family Maternity Care**

Midwives Doctors Doulas and Communities Working
together in challenging times

Conclusion: of the Bumi Sehat, Indonesia and Bumi~ Wadah Foundation, Philippines, early responders:

“Woman-to-woman care is culturally safe and better informed for most communities, especially when facing widespread devastation. For better childbirth outcomes in the era of climate crisis, pregnant and birthing MotherBabies need the tender and skilled care of Midwives in collaboration with doctors and doulas when available.”

