

## IMPACTS AND NEXT STEPS

### NEPAL

#### Overview

- Population: 28+ million. Per capita annual income in 2019: \$1,034; 25 percent are living below the poverty line, on 50 cents per day. This makes Nepal one of the poorest countries in the world.
- Skilled birth attendant - percentage of deliveries attended by skilled health personnel (Female): 58%
- Percentage of deliveries by cesarean section: 9%
- Percentage of deliveries in a health facility: 57%
- Antenatal care 4+ visits - percentage of women (aged 15-49 years) attended at least four times during pregnancy by any provider (Female): 69%
- Maternal mortality rate: 186 per 100,000 live births, ranking 140 out of 186 countries

#### NYAGI Training: 2016 and 2017

1. Partner organization: One Heart Worldwide (OHW):  
<https://www.oneheartworldwide.org/>
2. NYAGI provided two trainings: 2016 and 2017. Each lasted 5 days.
3. Trained total of 60 Skilled Birth Attendants (cf. midwives) from 28 different clinics, serving a population of more than 1 million.
4. Beneficiaries: pregnant women in remote areas with limited access to medical care.
5. Prenatal ultrasound scans identify life-threatening conditions (e.g., placenta previa, breech presentation, insufficient amniotic fluid). When undiagnosed, the probability is very high that both the mother and baby will die. Pregnant women found to have these conditions thanks to an ultrasound exam are referred to a higher level medical facility which can perform, for example, a C-section delivery.
6. After the 2017 training, 16 of the 28 clinics that participated in the 2017 NYAGI training showed an increase in the number of referrals they made.
7. From 2017 to 2018, the combined total number of referrals by all clinics increased by 261%, translating into ~20 lives saved each month.
8. Seeing these positive outcomes based on results for the initial 20 ultrasound machines, One Heart Worldwide just recently invested in the purchase of 100 additional ultrasound machines.

#### Next Steps

Return to Nepal later to offer additional training; and offer an expanded curriculum, with OB/GYN as well as emergency medicine, MSK, and lungs, including COVID-19.

## IMPACTS AND NEXT STEPS

### HAITI

#### Overview

- Population > 11M. In 2018, UNDP's Human Development Index ranked Haiti, along with Afghanistan, as 168 out of 189 countries. About 60% of Haitians live below the World Bank poverty line of \$2.41 per day. Just 2.7% of parliamentary seats are held by women.
- 20% of the population practices open defecation
- 25 uses unimproved drinking water sources
- Women of childbearing age make up 26.8% of the population and 3.2% of pregnancies are high-risk.
- At 480 deaths per 100,000 live births, Haiti's maternal mortality rates is highest in the Western hemisphere
- Antenatal care 4+ visits - percentage of women (aged 15-49 years) attended at least four times during pregnancy by any provider (Female): 67%
- Percentage of deliveries attended by skilled health personnel, rose from 24% in 2000 to 42% 2017
- Percentage of deliveries by cesarean section rose from 1.6 in 2000 to 5.4 in 2017
- Percentage of deliveries in a health facility rose from 23.2 in 2000 to 39.4 in 2017.

#### NYAGI Training: 2019 and 2020

1. Partner organization: Caris Foundation: <http://www.carisfoundation.org/>
2. First training in capital Port-au-Prince, Jan. 2019.
3. NYAGI has gone back twice at the request of Caris (July 2019 and Feb. 2020).
4. Trained 28 physicians.
5. By a conservative estimate, these physicians now refer 10 pregnant women monthly. On an annual basis these referrals are estimated to save about 120 lives of mothers and their babies; .
6. Caris bought another 40 ultrasound machines, doubling the number initially purchased, as well as an additional 40 portable ultrasound transducers.

#### Next Steps

Bring ultrasound to another 200+ hospitals and clinics in the next 2 years, scaling up to the whole country, establishing a global best practice model; and extend the Caris partnership to conduct trainings in Kenya, starting 2021.



## **BUILDING NYAGI'S CAPACITY**

### **Governance**

In 2019, NYAGI expanded its organizational structure, governance, and capacity through a Board of Directors, Advisory Board, and an Honorary Board comprised of prominent experts across the U.S.

### **Capacity and Sustainability**

A diverse and dedicated volunteer team of experts includes medical doctors, licensed sonographers, senior nonprofit leaders, retired professionals, and graduate students.

### **Innovation**

The original NAV™ curriculum consisted of an Ob/Gyn module. The curriculum has expanded to include additional modules on MSK, EM, cardiac, and vascular health. Current work includes the development of a unit on lungs, supporting diagnosis of COVID-19. A conversion of the current NAV™ platform to Android is nearing completion, which will greatly expand opportunities for scaling up.

### **Partnership Development**

1. In 2020, NYAGI signed an MOU with Caris Foundation, its partner in Haiti and Kenya.
2. NYAGI signed an MOU with America's Association for the Care of Children, while receiving authorization for work in Nicaragua from the Ministry of Health in that country.
3. NYAGI has secured funding and will work in partnership with Americas Association for the Care of Children (AACC) in 2021 to train Nicaraguan medical providers in POCUS and HBB.
4. In 2019, NYAGI initiated collaboration with AfyaConnect, a physicians' organization working to promote maternal health in rural Tanzania through use of innovative medical technology. The Tanzanian Ministry of Health supports NYAGI's work there.
5. NYAGI has received funding for a joint grant application with the Perinatal Rescue Network to train Tanzanian midwives in POCUS and HBB in 2021.
6. One Heart Worldwide continues as NYAGI's active partner in Nepal.
7. Lalmba is a U.S.-based nonprofit, operating clinics in Ethiopia and Kenya, keenly interested in working with NYAGI, pending availability of funding.