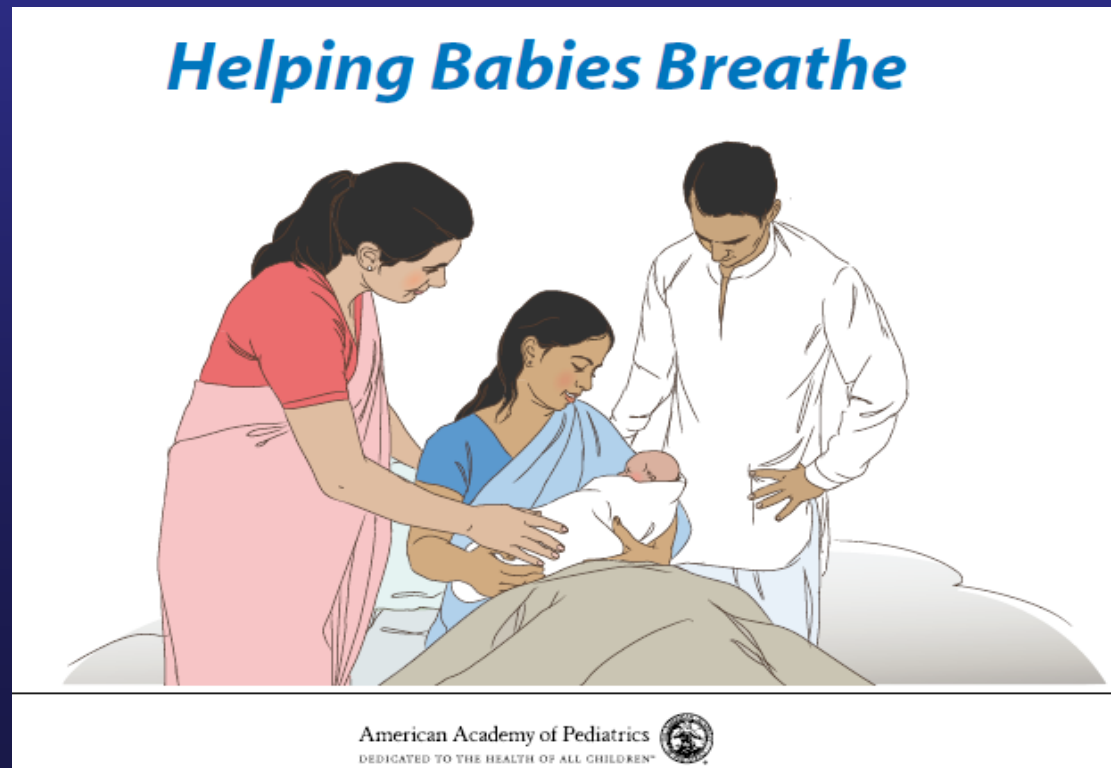


The Helping Babies Breathe Program

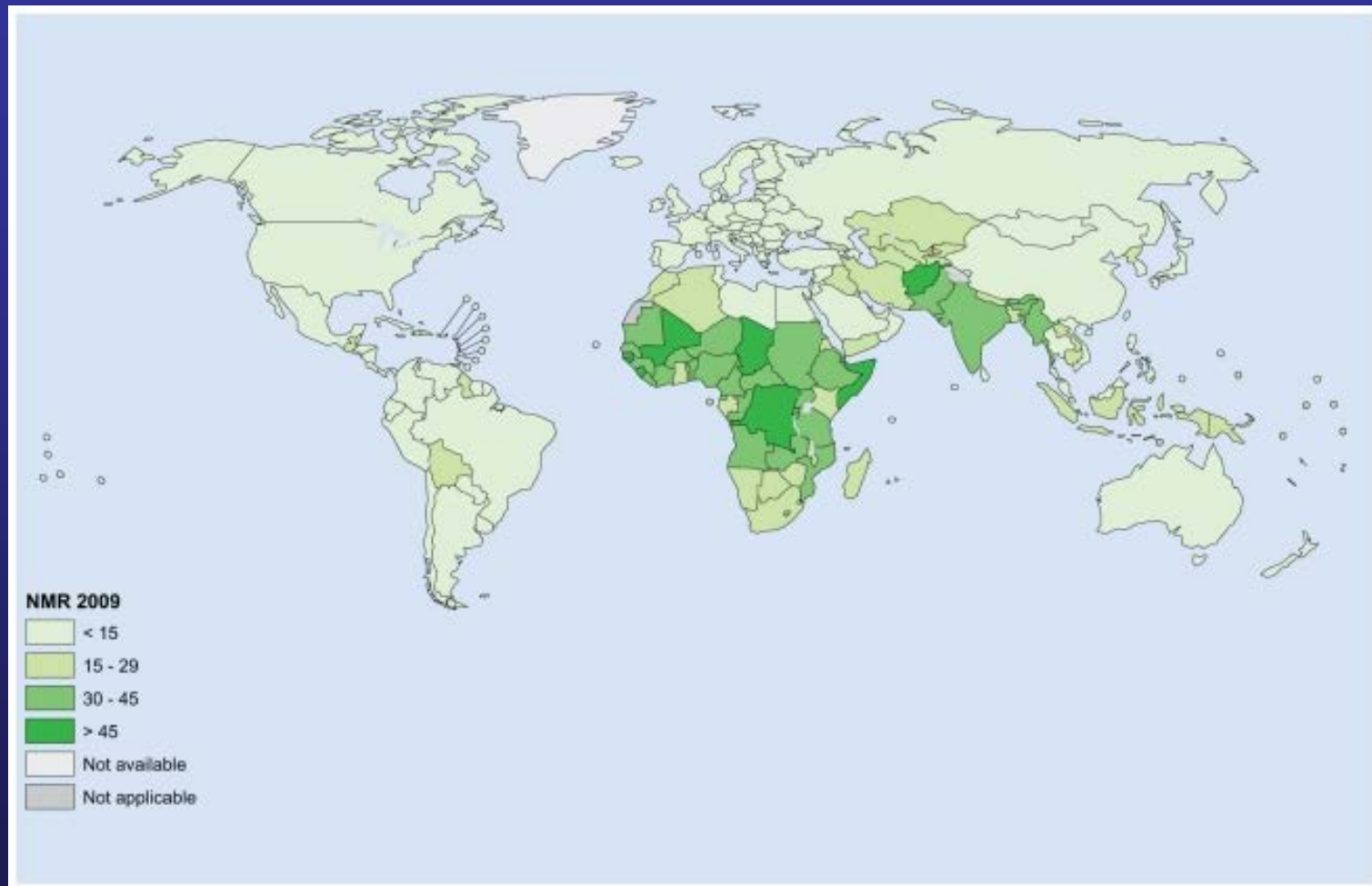
**George A. Little MD
Geisel Medical School at Dartmouth
Hanover, NH USA**

**Wilson Center
Washington
September 30, 2014**

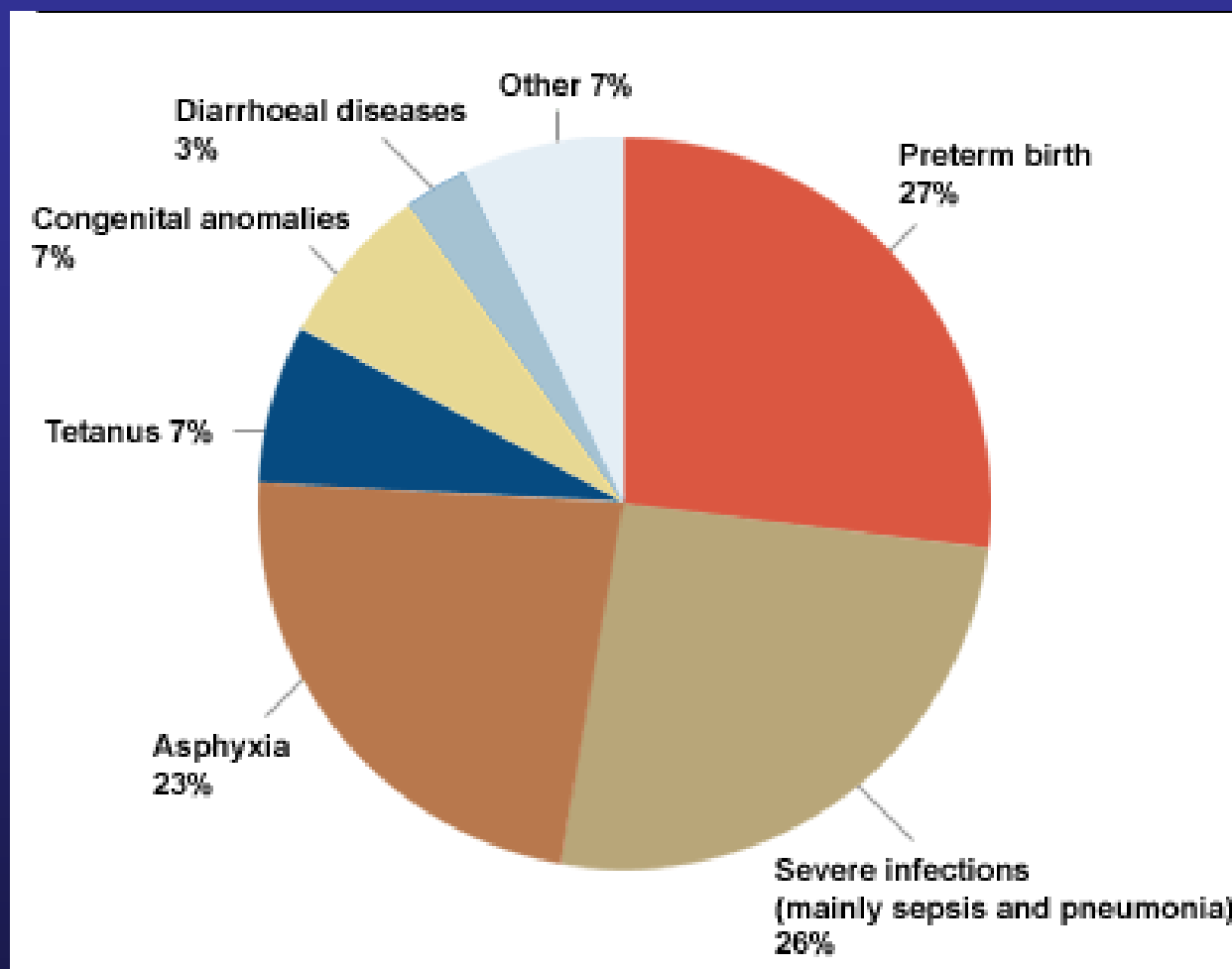
An evidence-based neonatal resuscitation curriculum for resource poor areas



Where do most neonatal deaths occur?



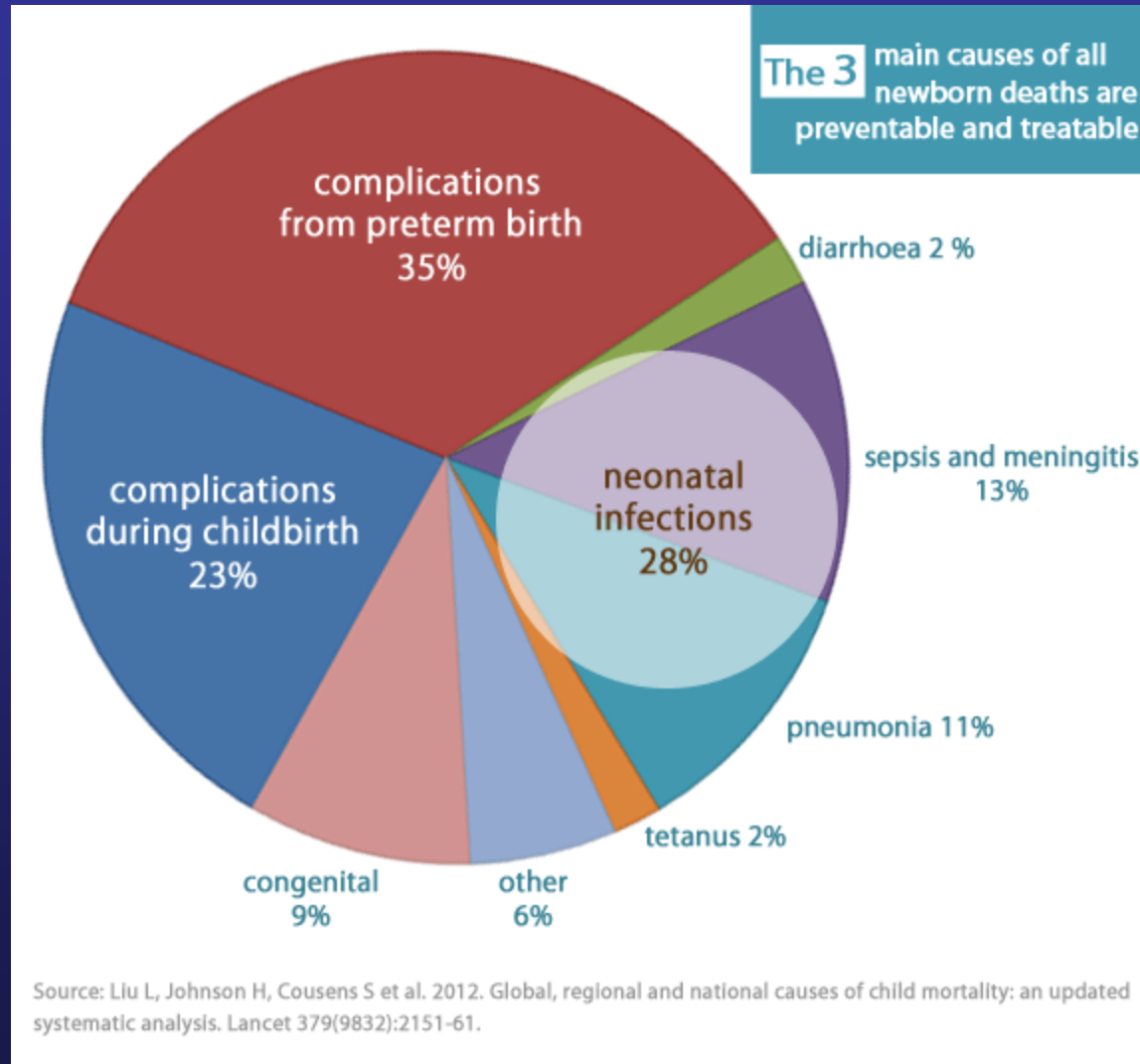
Global causes of neonatal death



UNICEF 2007

Lee, Wall, Cousens et al. Int J Epidemiol

What causes neonatal death?





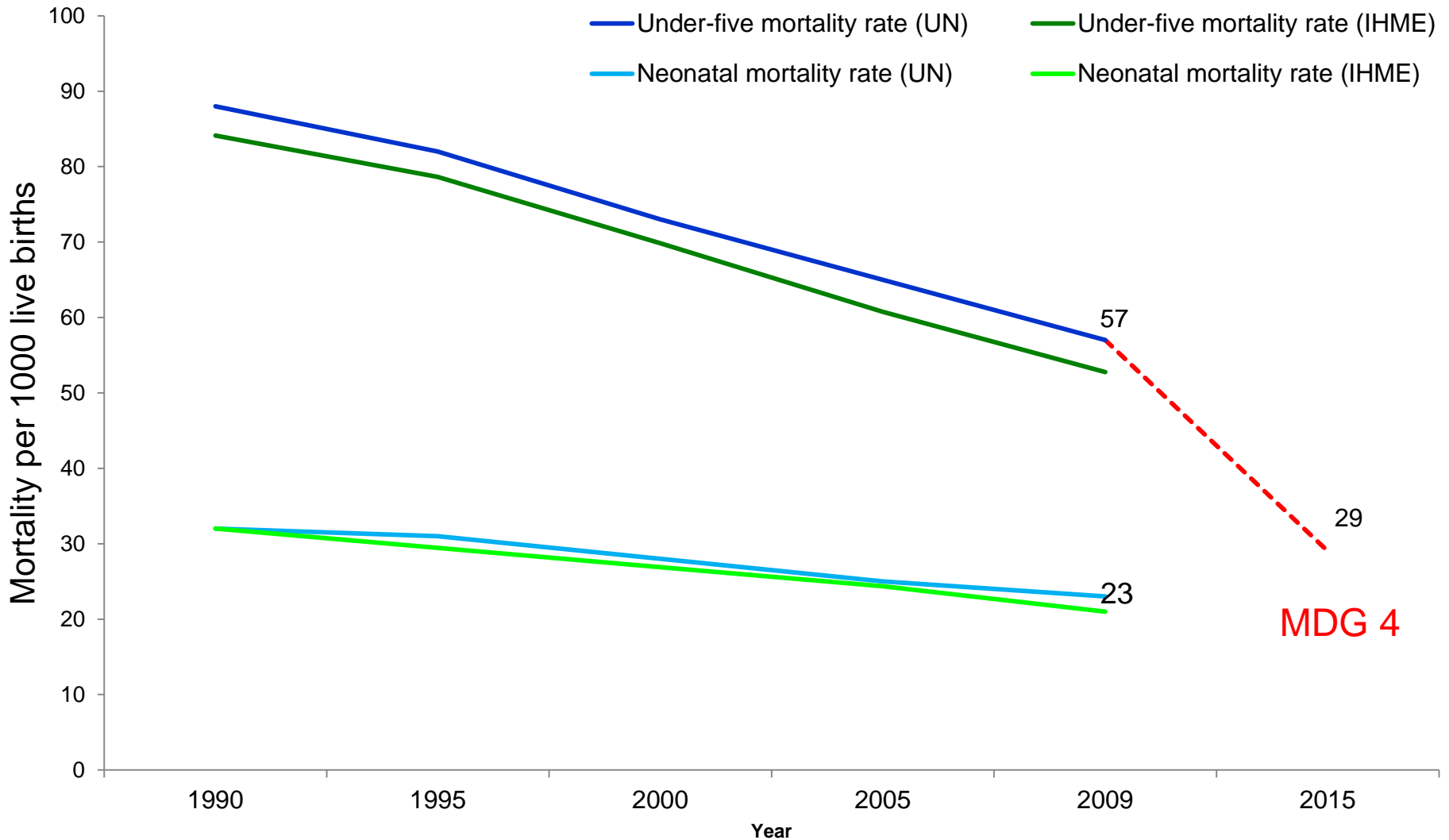
Stillbirths

- **Lawn JE, Blencowe H, Pattinson R, Cousen S, Kumar R, et al (2011)
Stillbirths: Where, When, Why? How to make the data count. Lancet 377: 1448-1463**

Annual Global Deaths

- **7.7 million children under 5 years**
- **3.1 million neonatal**
- **800,000 intrapartum asphyxia related**
- **1.0 million stillbirths**

Global Progress to MDG 4 for child survival



MDG 4

3.1 million neonatal deaths, 40% of all under-five deaths

Basic Strategy of HBB

- Evidence Based Medical Action Plan
- Educational curriculum and teaching methodology
- Clinical and teaching equipment

Primary Concepts of the Science of Neonatal Resuscitation

- **Asphyxia (intrapartum hypoxia)**
- **Primary and secondary apnea**
- **Recovery**

Neonatal Resuscitation Textbook *Plus*

Neonatal Resuscitation



TEXTBOOK *Plus*

6th Edition

Includes
textbook
with DVD
+ eBook



AAP

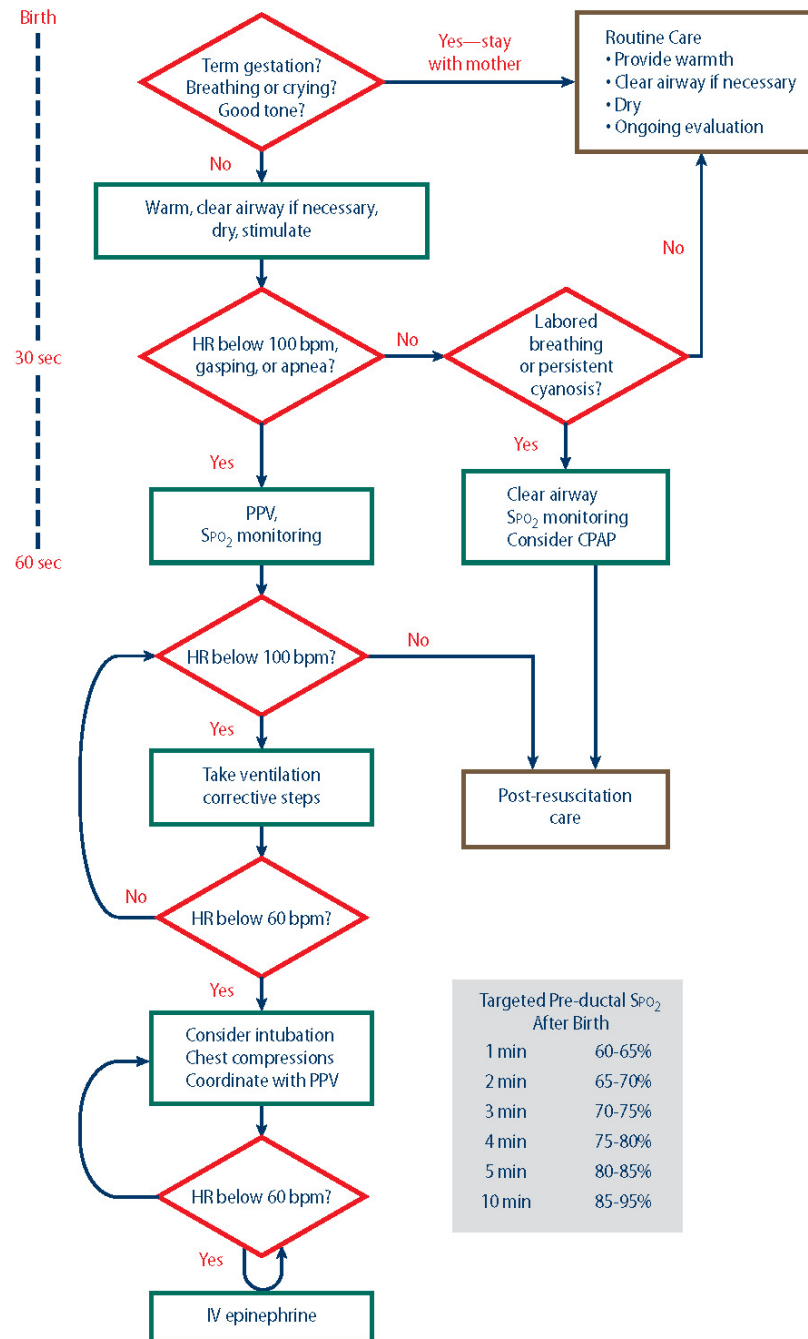


American
Heart
Association®

American Academy
of Pediatrics



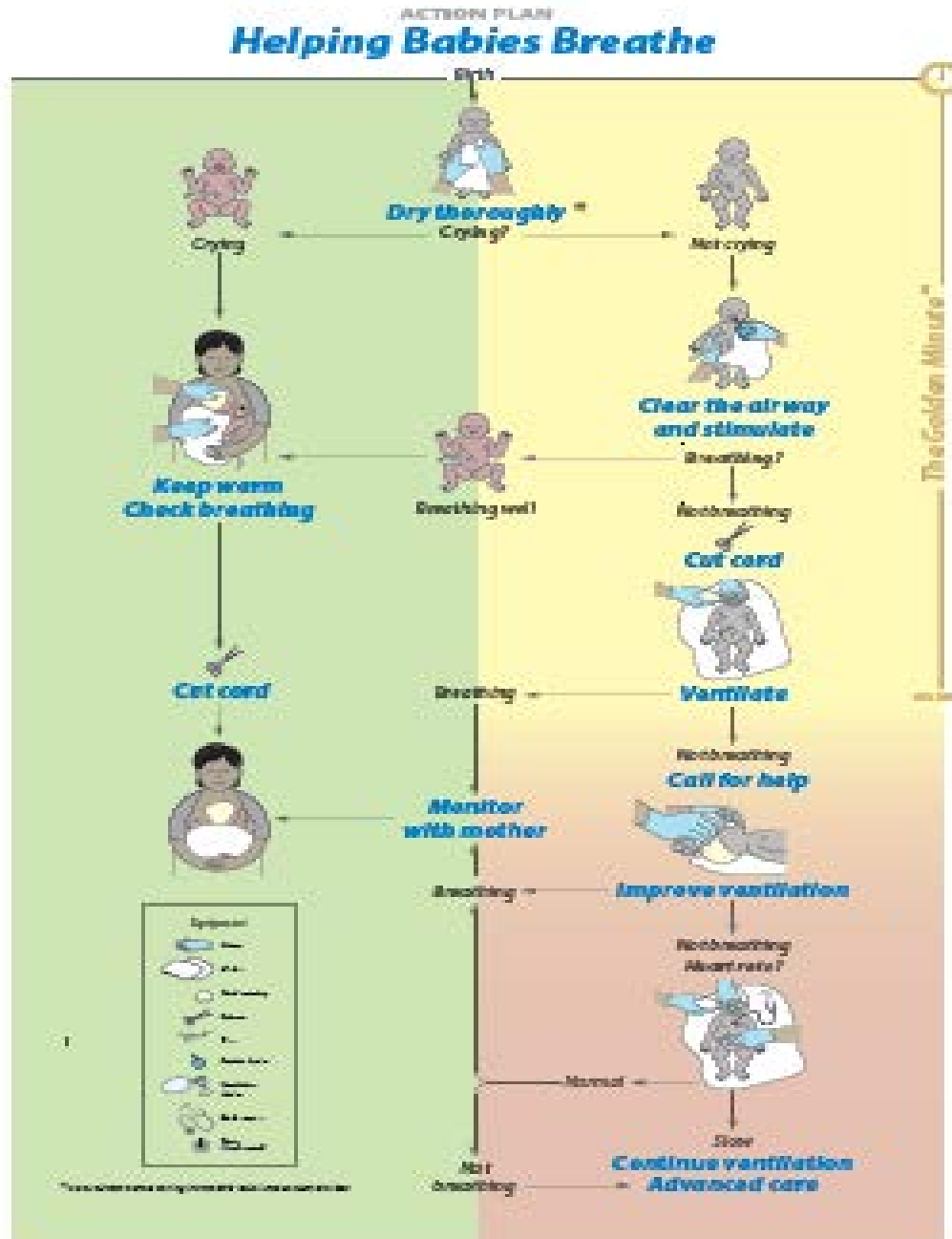
DEDICATED TO THE HEALTH OF ALL CHILDREN™



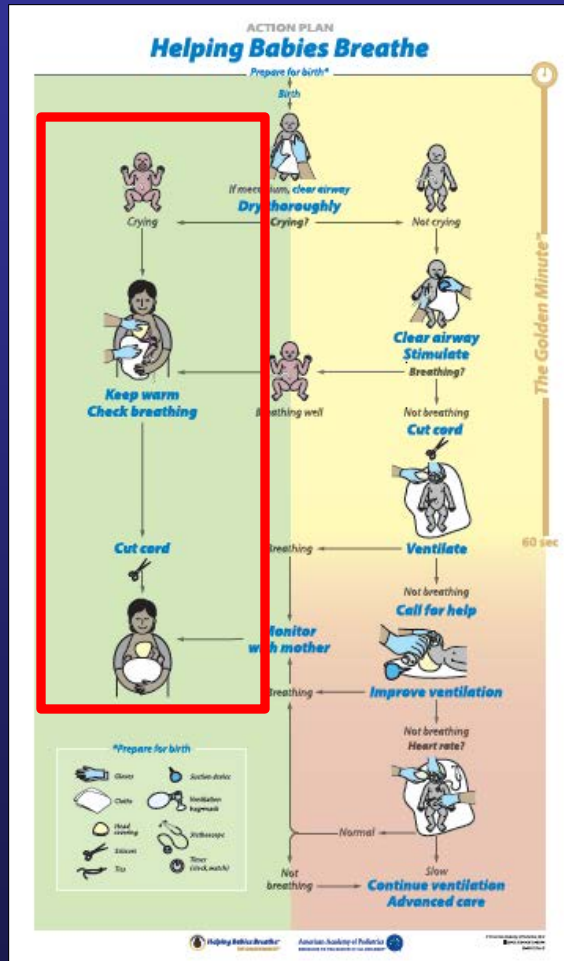
Evidence Based Medical Action Plan

- **Targeted at the most common neonatal intrapartum problems**
- **Linked to advanced neonatal care if available**
- **Designed for use in all places where babies are born**

Action Plan

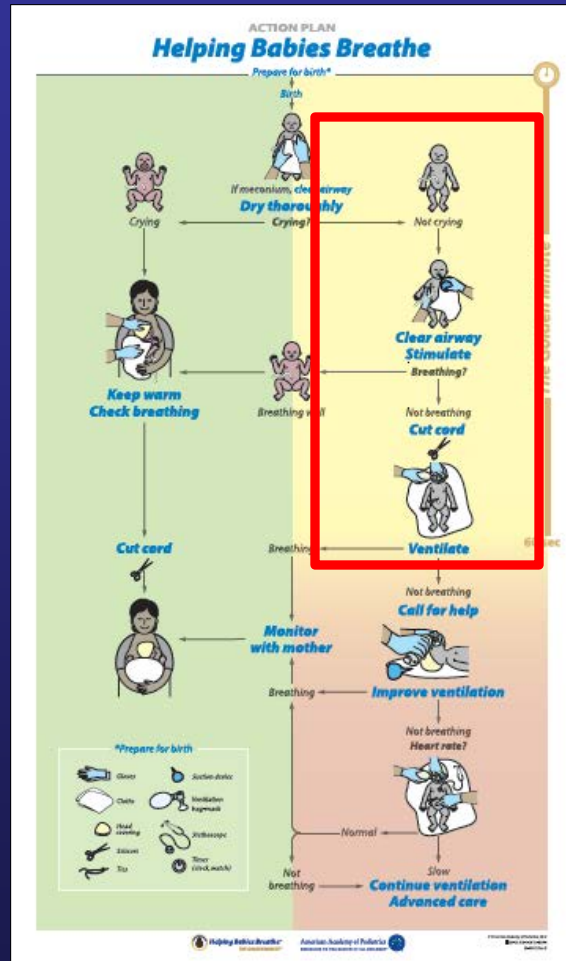


Routine Care



- Clearing the airway if meconium present
- Drying infant
- Recognize crying
- Keeping warm
- Cutting the umbilical cord
- Encouraging breastfeeding

The Golden Minute[®]



- Recognizing infant not crying
- Positioning head
- Clearing the airway
- Stimulating
- Recognizing breathing
- Initiating ventilation by 1 minute

Basic Strategy of HBB

- Evidence Based Medical Action Plan
- Educational curriculum and teaching methodology
- Clinical and teaching equipment

Educational curriculum and teaching methodology

- **Targeted at all levels of care providers**
- **Based on teacher-learner pairs**
- **Knowledge and skill assessments**
- **TOT cascade implementation**

Paired Learning/Teaching



Hands on Practice



Basic Strategy of HBB

- Evidence Based Medical Action Plan
- Educational curriculum and teaching methodology
- Clinical and teaching equipment



Helping Babies Breathe



American Academy of Pediatrics

Flipchart



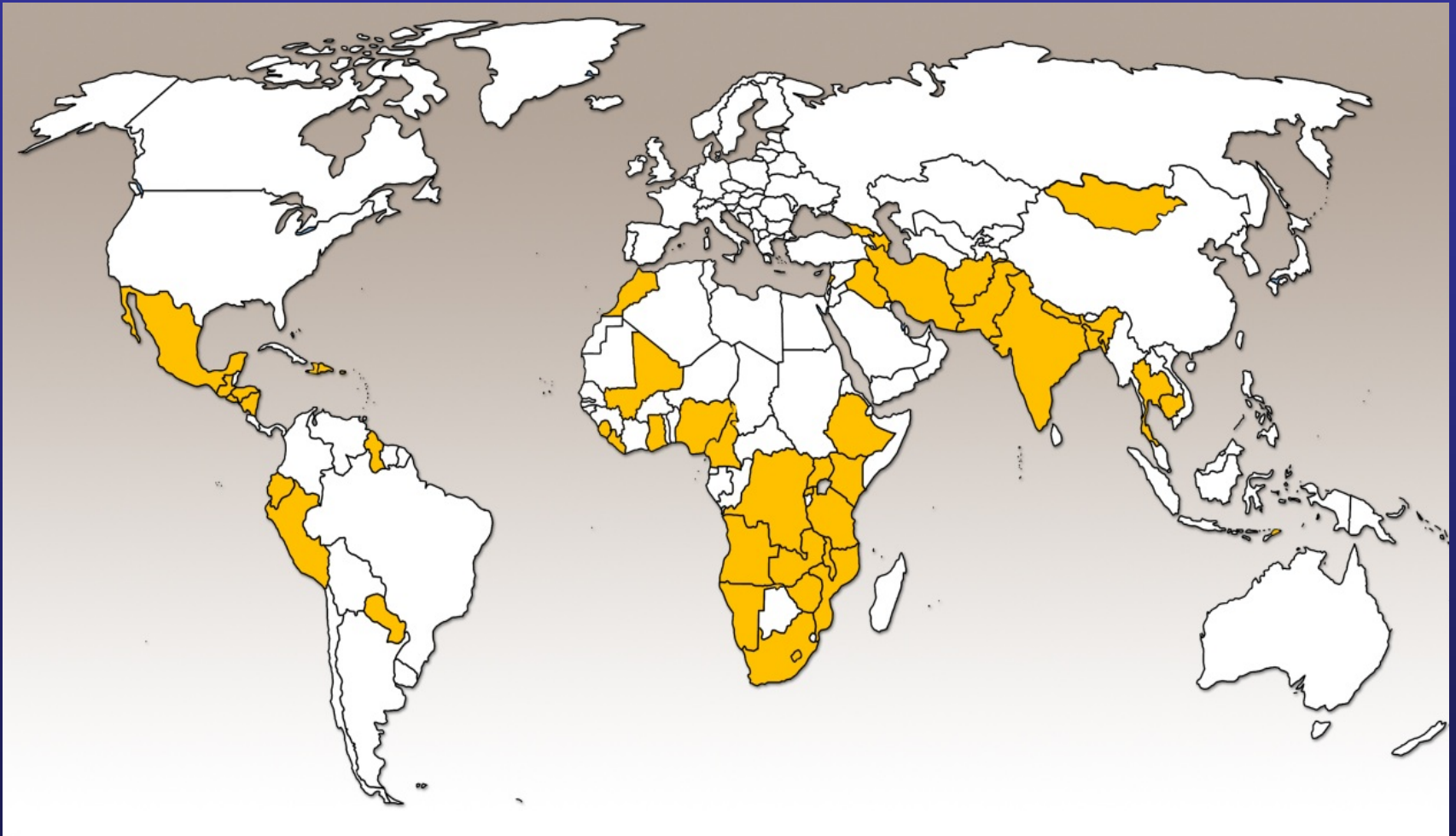
Simulator



Workbook



Helping Babies Breathe is now in 48 countries

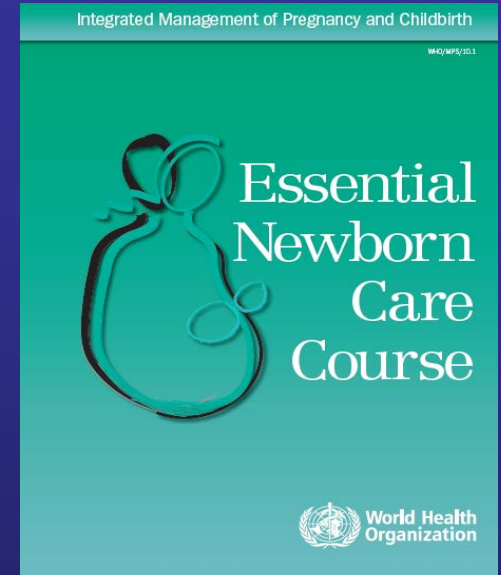


Implementation



**Designed to be integrated
into Essential Newborn Care
(ENC) or equivalent**

**Intended to be an evidence-based focus
of excellence and change agent**



Helping Babies Survive

Ending preventable newborn deaths: GNAP Strategic Approaches



1. Leadership and political commitment: country and global
2. Focus on high impact interventions
3. Move towards universal coverage of essential maternal and newborn care
4. Address the gap in quality of care
5. Create a supportive environment
6. Ensure mutual accountability

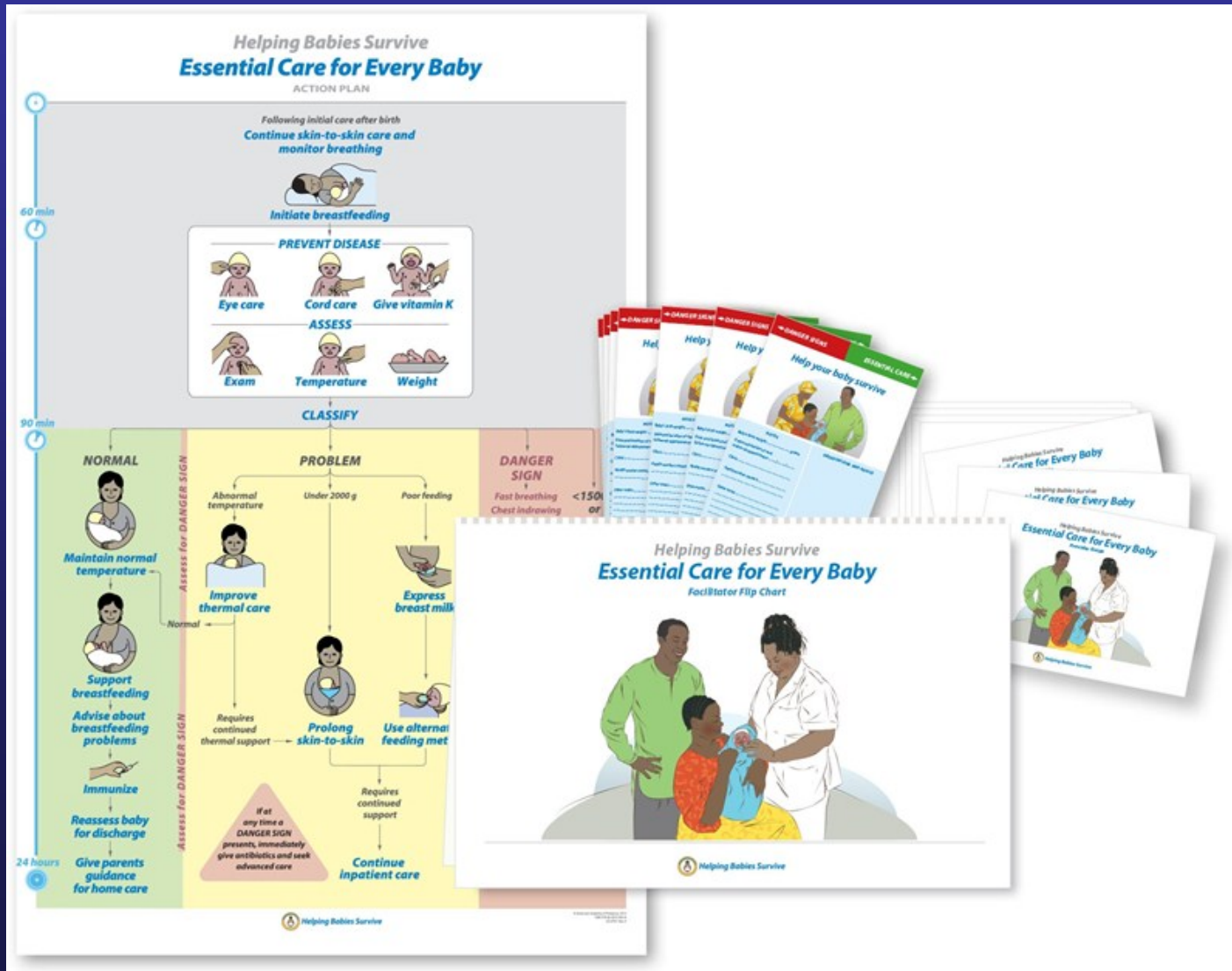
Helping Babies Survive

Essential Newborn Care on the First Day



Essential Care for Every Baby

materials



Present and Future Challenges

Program sustainability

**Quality assessment and
improvement**