



WFSA
WORLD FEDERATION OF SOCIETIES OF
ANAESTHESIOLOGISTS



ANAESTHESIOLOGISTS
WORLD FEDERATION OF SOCIETIES OF

Anesthesia & Global Surgery

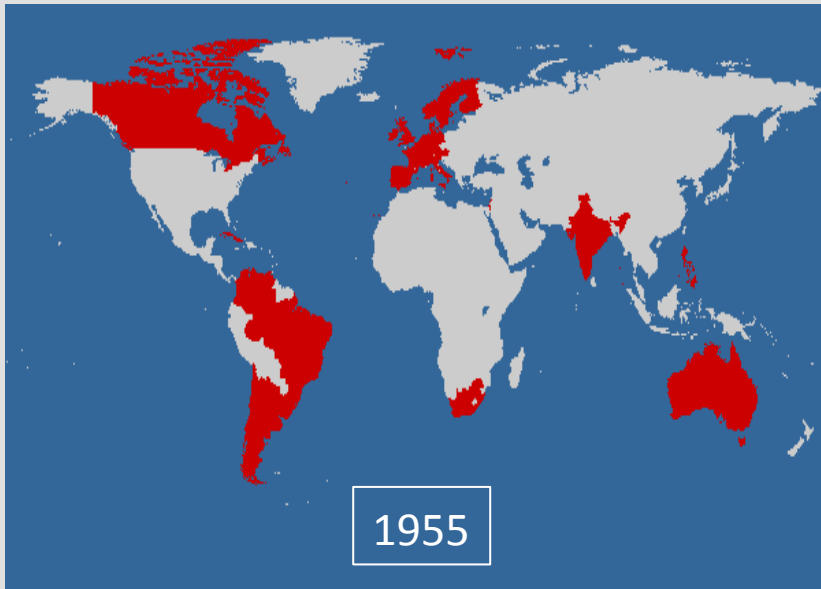


Anesthesia Division of
Global Health Equity
globalanesthesia.ucsf.edu

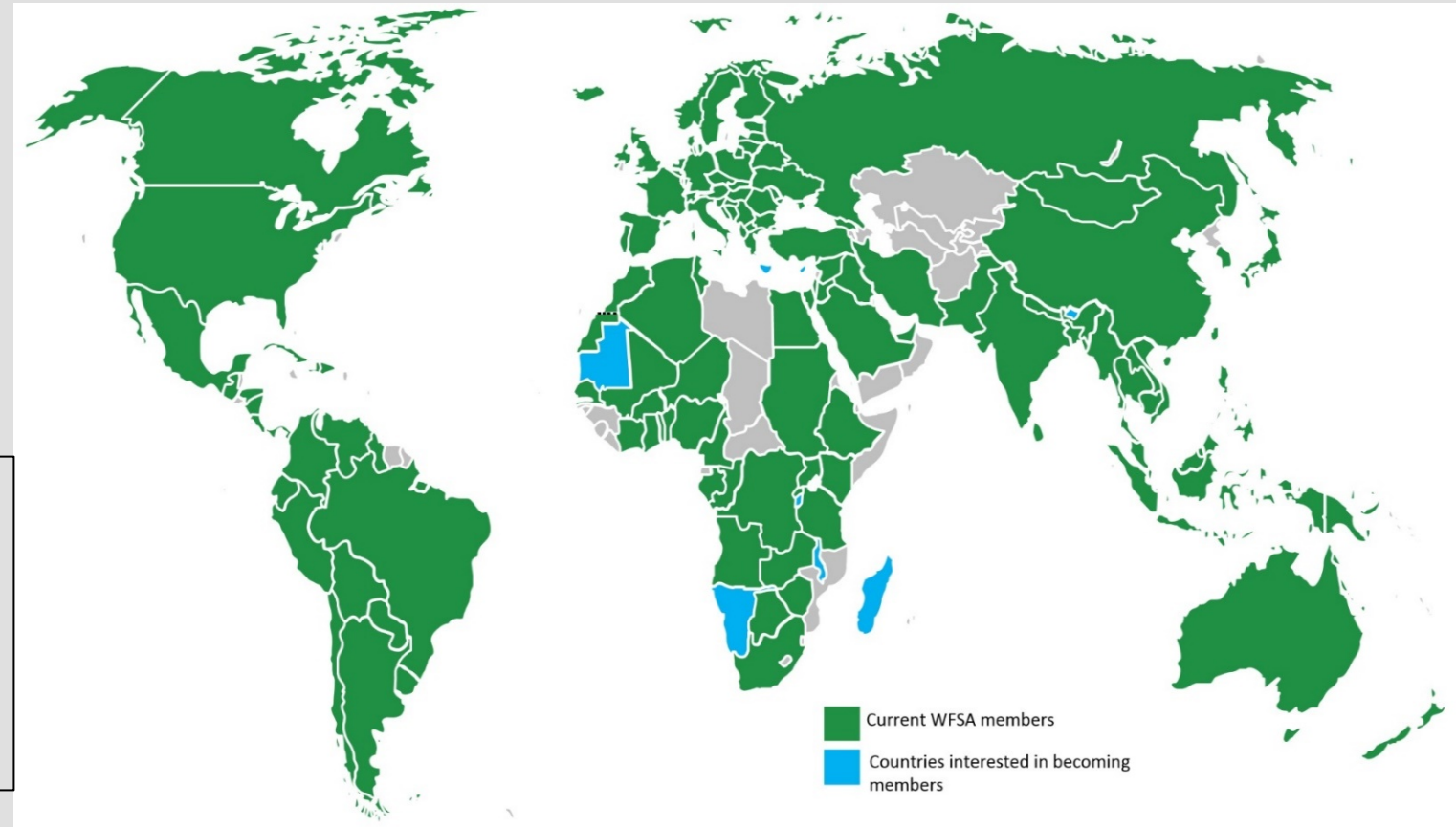
Adrian W Gelb
Secretary - WFSA
Distinguished Professor (Emeritus)
University of California San Francisco
adrian.gelb@ucsf.edu @AdrianGelb



WFSA
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ANAESTHESIOLOGISTS



There are now more than 135 societies in WFSA covering more than 150 countries.





WFSA

WORLD FEDERATION OF SOCIETIES OF
ANAESTHESIOLOGISTS

Vision: Universal Access to Safe Anesthesia

**Mission: To Unite Anesthesiologists around the World to Improve Patient Care
& Access to Safe Anesthesia & Perioperative Medicine**

**How We Work: with national, regional & specialty anesthesiology societies;
with WHO, Governments, NGOs, academic institutions, patient groups, hospitals, and industry**

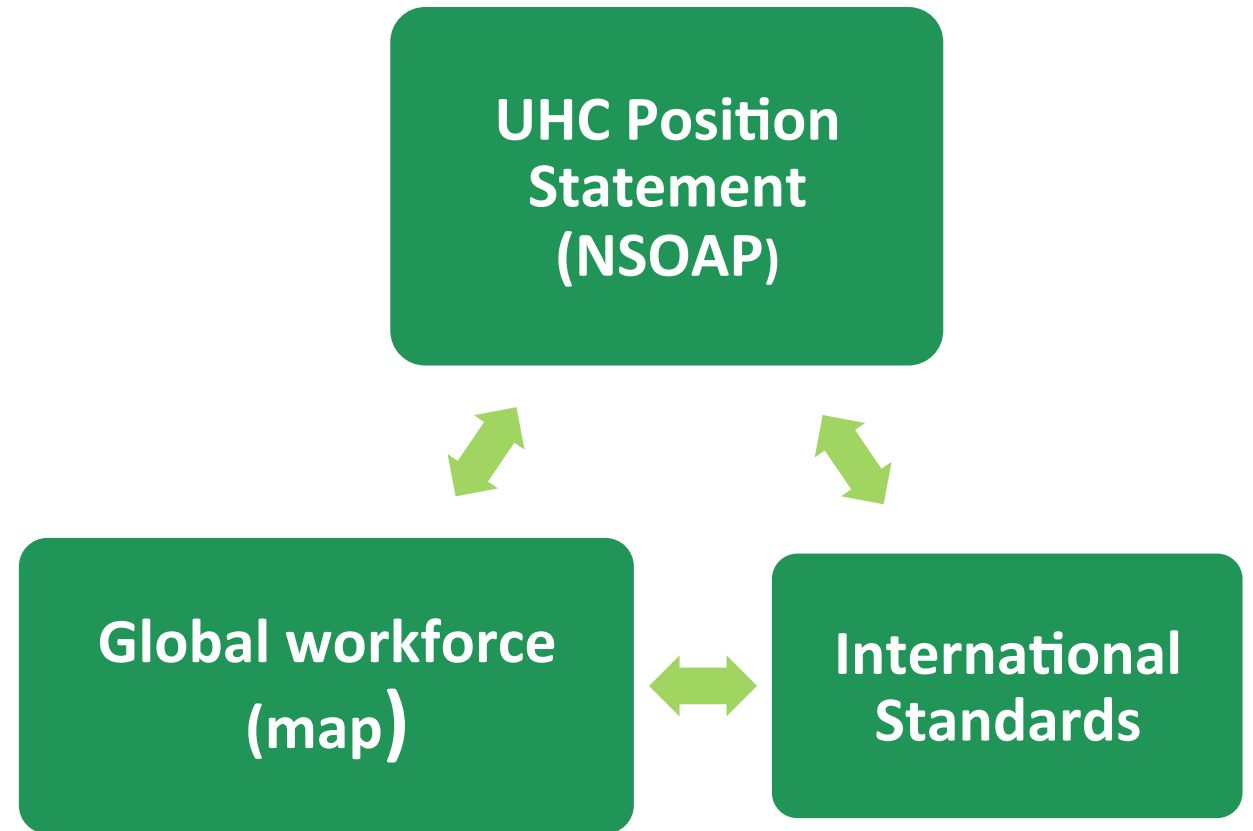
**Safe anaesthesia and perioperative care are essential for safe surgery
We welcome partnerships aimed at strengthening health systems and achieving universal health coverage.**

Our Three Guiding Pillars



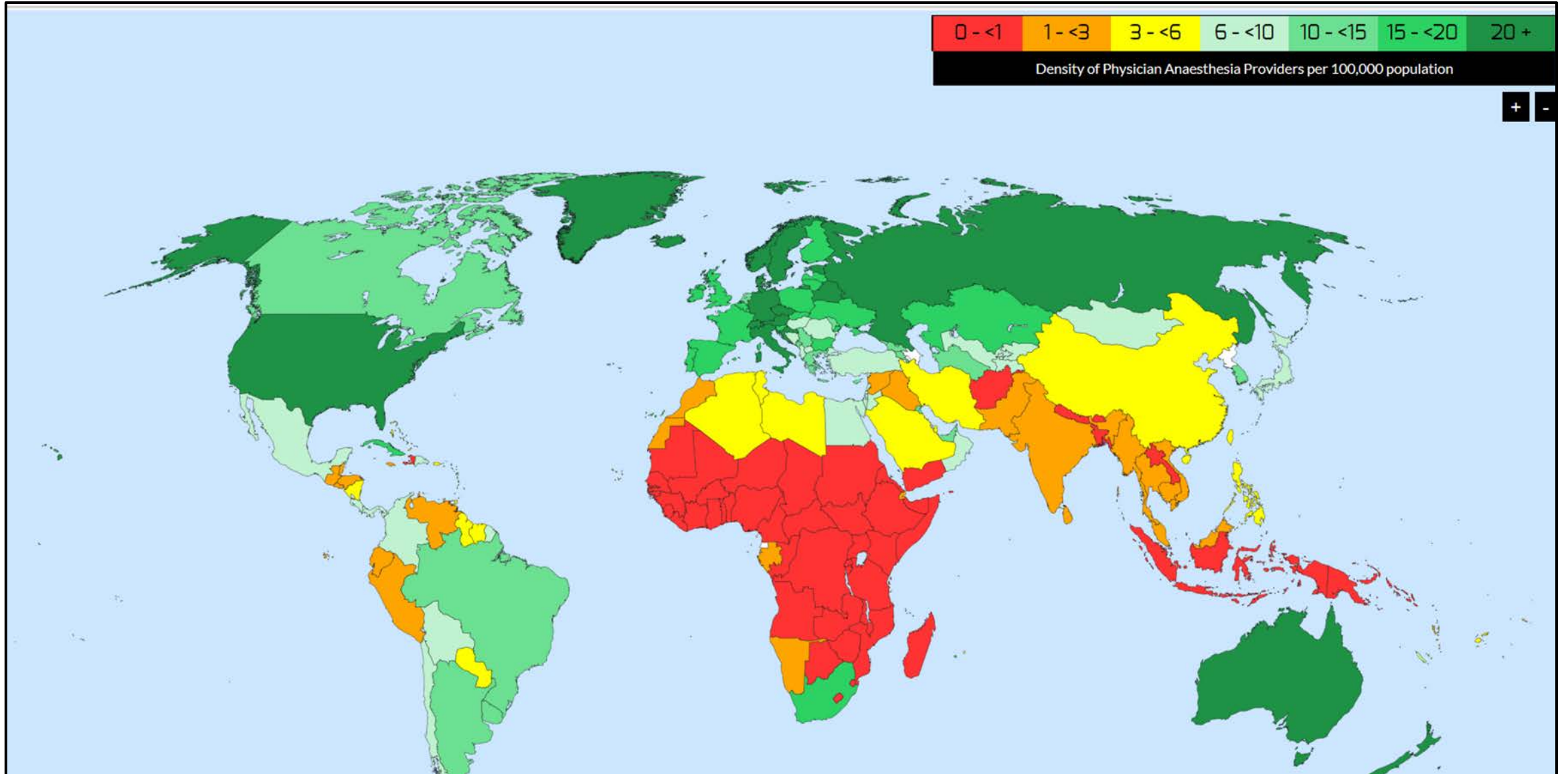
Our advocacy is guided by three pillars: scaling-up of the anaesthesia workforce, achieving Universal Health Coverage (UHC), and ensuring safe anaesthesia for all

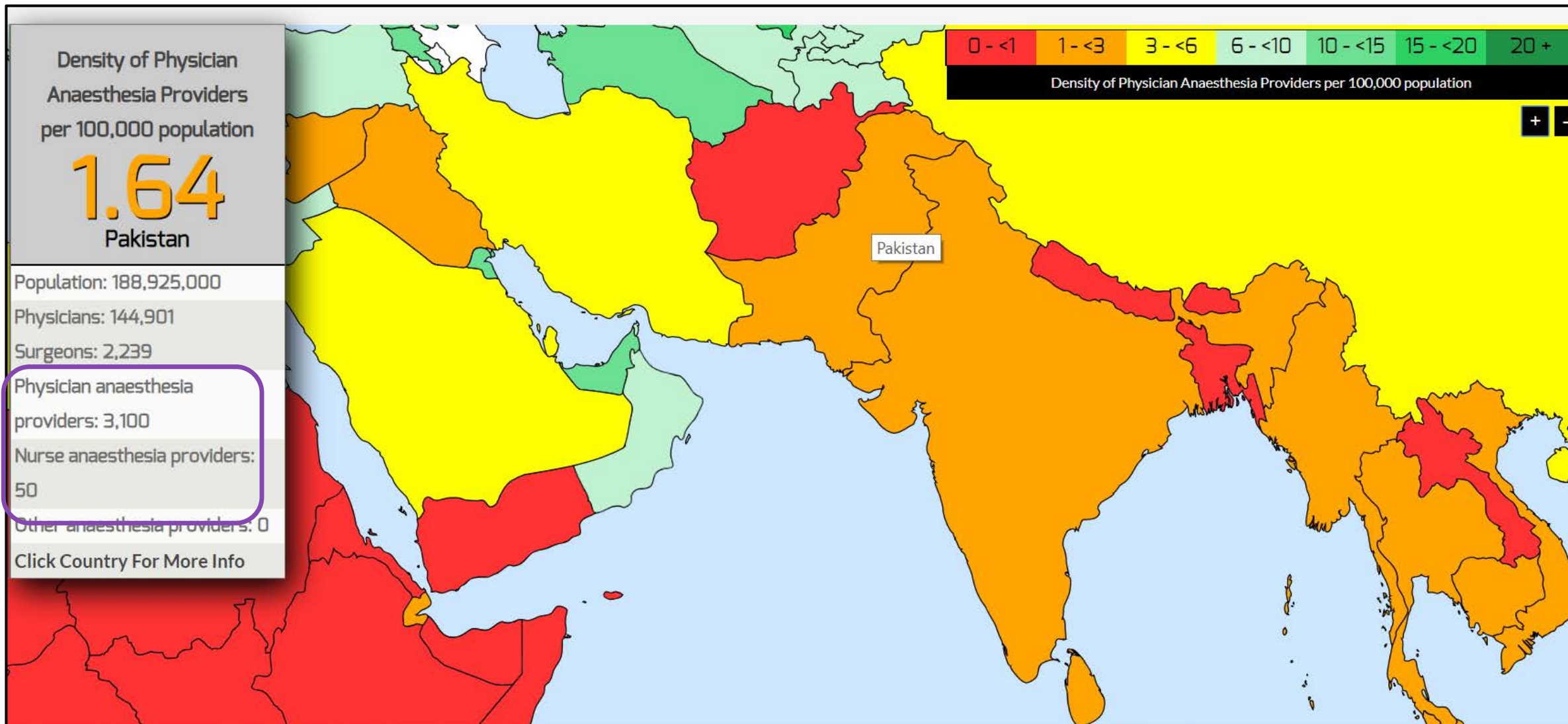
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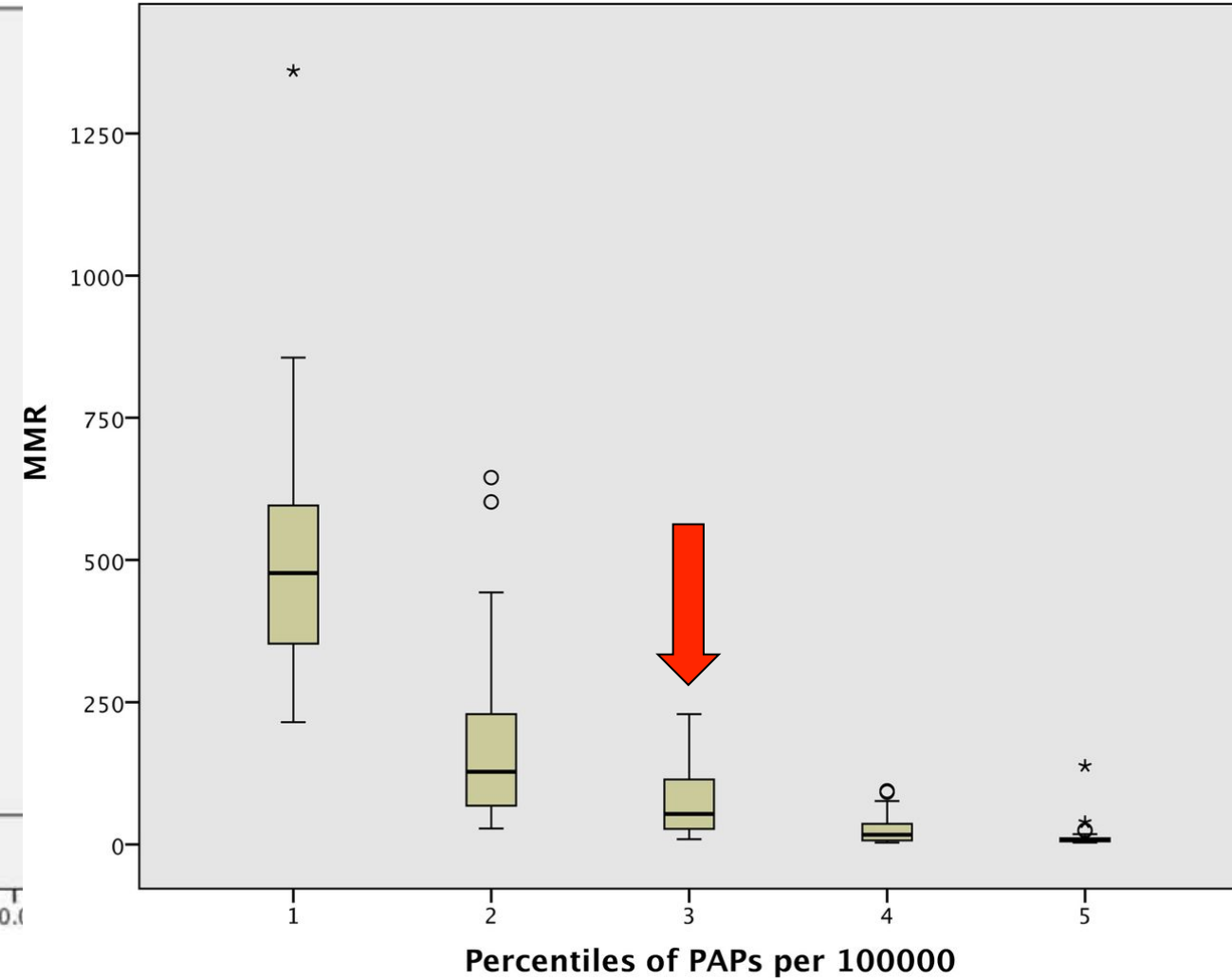
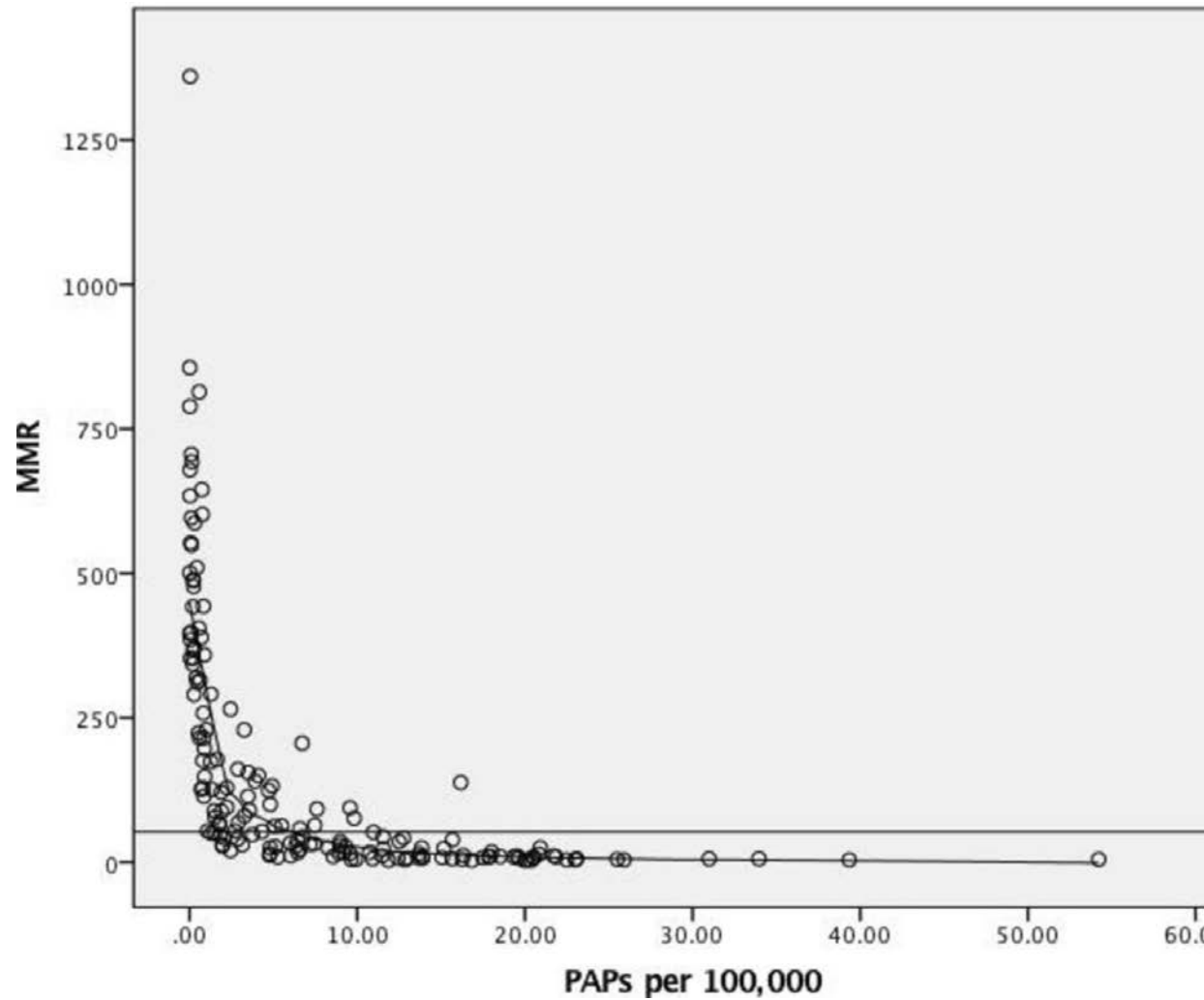
<https://www.wfsahq.org/our-work/advocacy>

Global Anesthesia Workforce



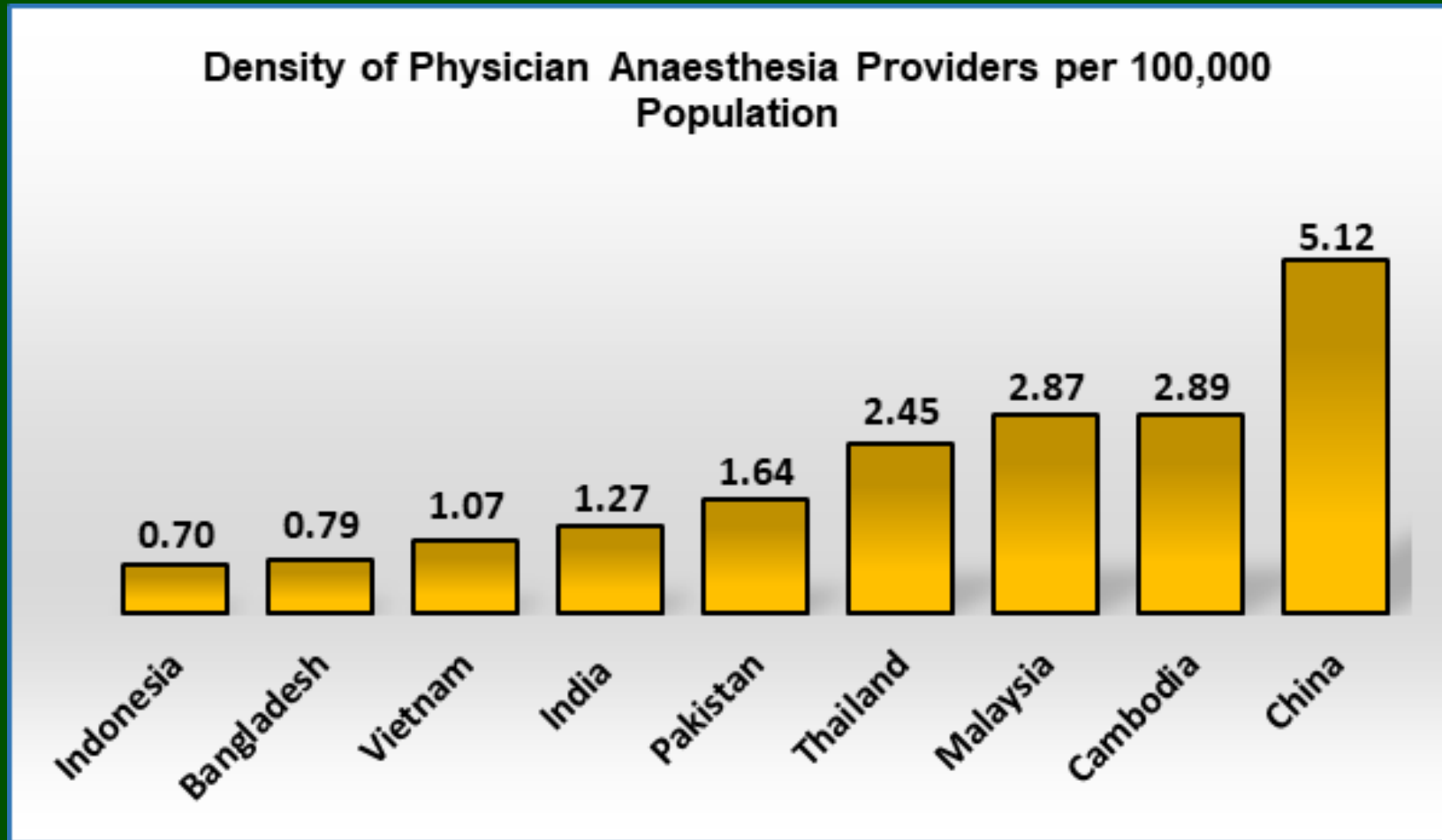


The relationship between physician anesthesia provider (PAP) density and maternal mortality ratio (MMR) for 168 countries



quintile 1: 0.1–0.62 PAPs per 100 000; quintile 2: 0.7–2.44;
quintile 3: 2.45–6.76; quintile 4: 7.18–15.06; quintile 5: 15.17–54.22

Anesthesia Provider Density - Asia



Workforce



Numbers of People

**Appropriately Educated
And
Regulated**





>30 countries since launching in 2011
3,500 anaesthesia providers trained by the end of 2018!

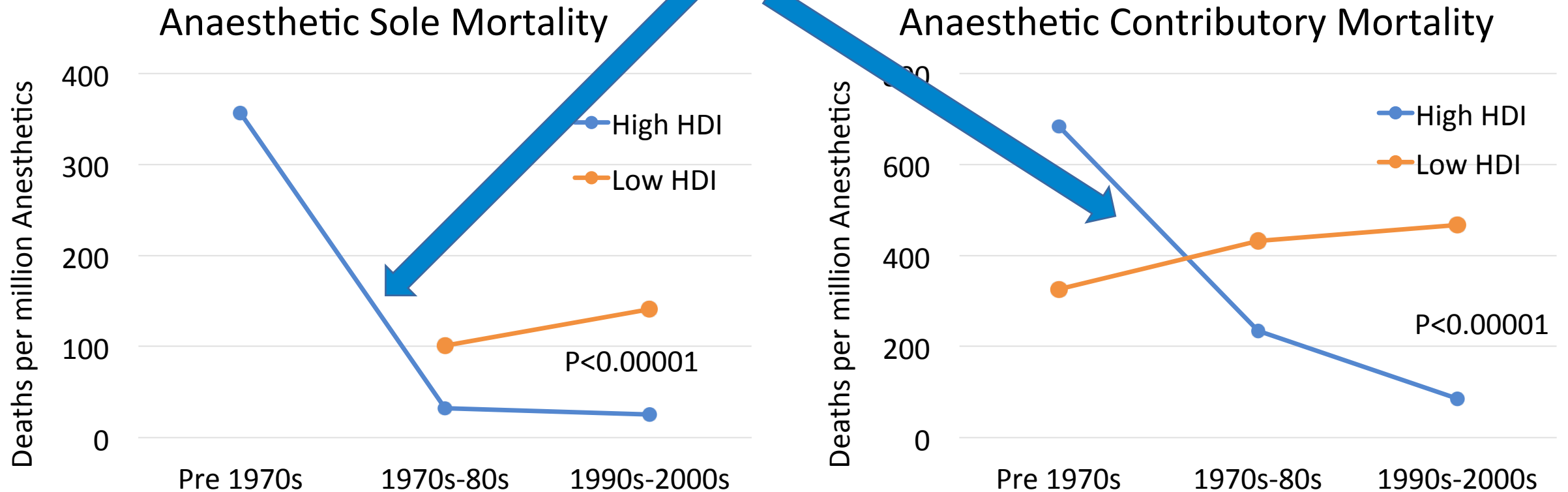


380 Tutorials
(English, Chinese, French, Portuguese, Spanish)
32 editions of Update in Anaesthesia

Anaesthesia mortality by decade & country

Human Development Index status

Investment in Safety Standards, Training & Equipment



Let me Introduce you to:

Can J Anesth/J Can Anesth
<https://doi.org/10.1007/s12630-018-1111-5>



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SPECIAL ARTICLE

World Health Organization-World Federation of Societies of Anaesthesiologists (WHO-WFSA) International Standards for a Safe Practice of Anesthesia

Normes internationales pour une pratique sécuritaire de l'anesthésie de l'Organisation mondiale de la santé et de la Fédération mondiale des sociétés d'anesthésiologie (OMS-FMSA)

Adrian W. Gelb, MBChB, FRCPC · Wayne W. Morriss, MBChB · Walter Johnson, MD · Alan F. Merry, MBChB, FANZCA, FFPMANZCA on behalf of the International Standards for a Safe Practice of Anesthesia Workgroup

<https://www.wfsahq.org/our-work/safety-quality>



Standards are Categorized by Facility Level and/or case type

Table 7. Standards for Monitoring

	HIGHLY RECOMMENDED	RECOMMENDED	SUGGESTED
Intraoperative	<p>Clinical observation by an appropriately trained anesthesia provider:</p> <ul style="list-style-type: none"> • Pulse rate and quality • Tissue oxygenation and perfusion • Respiratory rate and quality • Breathing system bag movement • Breath sounds • Heart sounds (eg, use of precordial or esophageal stethoscope as appropriate) <p>Audible signals and alarms at all times</p> <p>Continuous use of pulse oximetry</p> <p>Intermittent noninvasive blood pressure monitoring</p> <p>Carbon dioxide detector for patients undergoing intubation</p>	<p>Inspired oxygen concentration monitor</p> <p>Device to prevent delivery of a hypoxic gas mixture</p> <p>Disconnect alarm (when mechanical ventilator used)</p> <p>Continuous use of an electrocardiogram</p> <p>Intermittent temperature monitoring</p> <p>Peripheral neuromuscular transmission monitor (when muscle relaxants used)</p> <p>Continuous waveform capnography^a for patients undergoing general anesthesia and deep sedation</p>	<p>Continuous measurement of inspired and expired gas volumes</p> <p>Continuous measurement of inspired and expired inhalational anesthetic concentrations</p> <p>Continuous measurement and display of arterial blood pressure (in appropriate cases)</p> <p>Continuous electronic temperature monitoring (in appropriate cases)</p> <p>Urine output monitoring (in appropriate cases)</p> <p>Processed EEG in appropriate cases</p>

EQUIPMENT

For the following pieces of equipment, please indicate the total number that are present at this facility and are designated for anaesthesia/surgical care in the operating theatres (i.e. the total # for all operating theatres). *Do not include equipment personally owned by providers.

Pulse oximeters	#
Laryngoscopes	#
Non-invasive blood pressure monitors	#

How often are the following equipment available and in functioning* condition when needed for anaesthesia or surgical care in the operating theatres?

(*Functioning is defined as in working condition and can be used for patient care)

	Always (100%)	Almost always (76-99%)	Often (51-75%)	Sometimes (26-50%)	Rarely (1-25%)	Never (0%)
Adult self-inflating breathing bag/mask	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paediatric self-inflating breathing bag/mask	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual or electric suction pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stethoscope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thermometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse oximeter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adult pulse oximeter probe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paediatric pulse oximeter probe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Anaesthesia Facility Assessment Tool

Based on the recently updated 2018 [WHO-WFSA International Standards for a Safe Practice of Anaesthesia](#) the WFSA has developed the Anaesthesia Facility Assessment Tool (AFAT) in order to help regional and national anaesthesia and health care leadership to gather data about anaesthesia workforce, equipment, medicines and practice at the facility level.

The AFAT is part of a shared effort to improve data collection and knowledge management in support of the implementation of World Health Assembly Resolution 68.15 and to ensure that anaesthesia is represented in national health planning and in National Surgical, Obstetric & Anaesthesia Plans (NSOAPs). To learn more about NSOAPs, please [click here](#).

Data Collection and Entry:

Data collection can occur in three potential ways:

1. Data can be collected on paper forms (links to pdfs for printing are below). Once data forms are completed, you can manually enter the data into the WFSA RedCap database. To receive the link for data entry using a computer, please click the green button below. (Requires Internet)
2. Data can be entered directly online (as it is collected) into the WFSA RedCap database online using either a computer or tablet. To receive the link for data entry using a computer, please click the green button below. If you choose to use direct data entry via tablet, please contact comms@wfsahq.org prior to data collection in order to receive tablet setup instructions. (Requires Internet)
3. Data can be collected on paper forms (links below) and entered into your database of choice for analysis and not shared in the WFSA RedCap database.

All data entered online will be stored in a secure RedCap database, jointly maintained by the WFSA and the [UCSF Anesthesia Division of Global Health Equity](#).

Enter data using the electronic survey tool

[Click here for link](#)

The survey form can be downloaded as a pdf in the following languages:

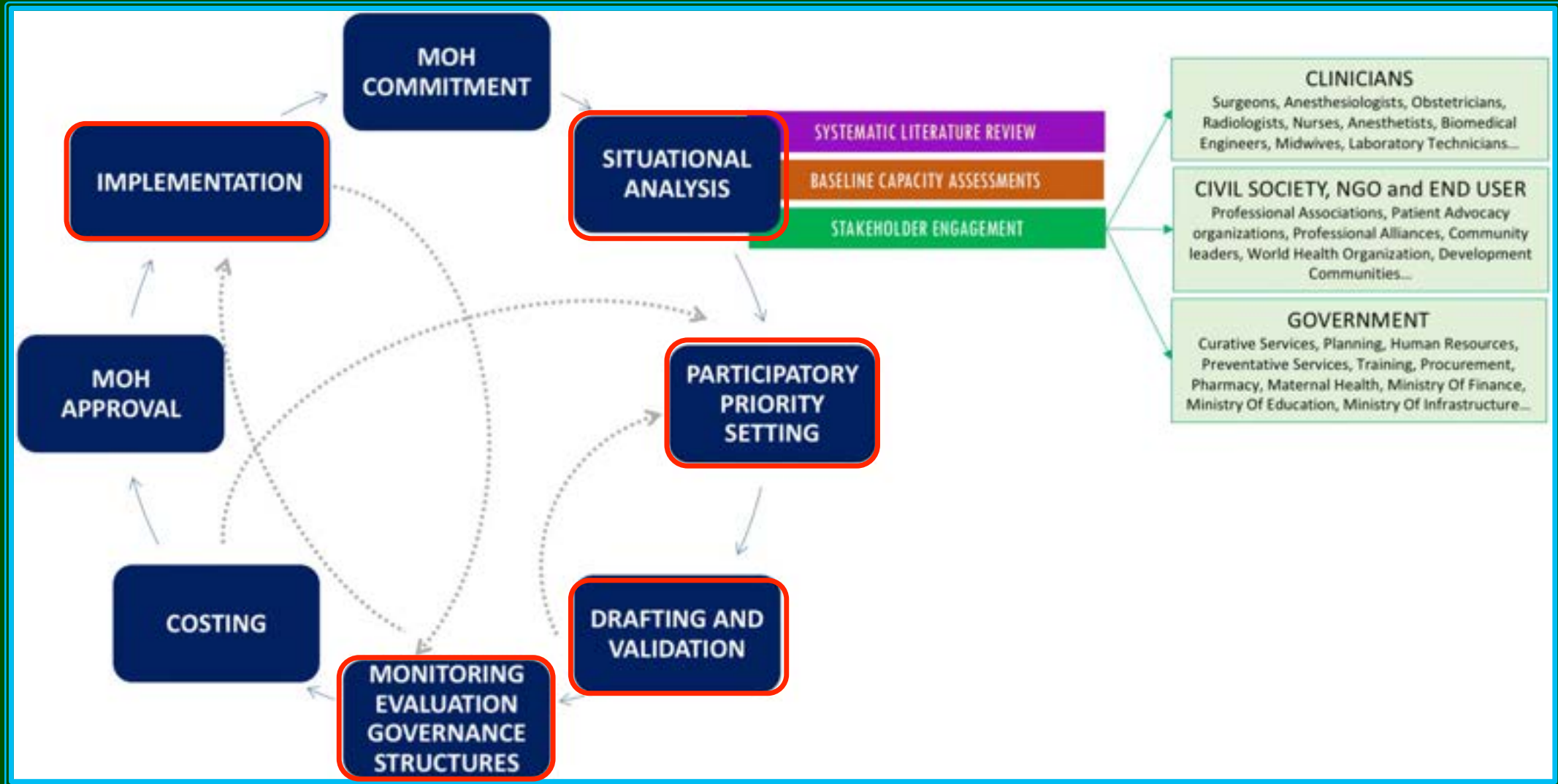
- AFAT ([English](#))
- AFAT ([Spanish](#))
- If you would like to work with WFSA to translate into another language please contact comms@wfsahq.org.

What Anesthesiologists want from Surgeons & Ministries of Health

- To acknowledge that for safe surgery a trained, competent and dedicated surgeon (whether physician or not) must be accompanied by an appropriately trained, competent and dedicated anesthesia provider (whether physician or not). Accepting anything less devalues the patients we care for together
- To encourage, facilitate, and support appropriate training of providers even when this results in short-term provider shortages while training takes place
- To adhere to, promote and advocate for the International Standards for a Safe Practice of Anaesthesia. These should be *endorsed* and *adopted* at every level of the healthcare system

To regard Anesthesia as an equal partner with Surgery in promoting safe surgery and not just a stakeholder to consult occasionally

Steps in the development of NSOAP



Thank You

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Email us and subscribe to our quarterly e-newsletter at: comms@wfsahq.org



Safety Summit April 5th 2019, London

Conclusion

- ✓ **An adequate and well trained workforce is crucial for Patient Safety**
- ✓ **The WHO-WFSA International Standards link Standards to Type of Facility and Type of Cases**
- ✓ **WHO-WFSA International Standards are the guide to Safe Practice and
Thereby the basis of the WFSA Anesthesia Facility Assessment Tool**
- ✓ **You need good data to understand what needs fixing**
- ✓ **Good data tells you what you don't know and verifies what you think you know**
- ✓ **The tools to guide Anesthetic Safety and get the data are available to you **free****

Highly Recommended i.e. the minimum

Trained Anesthesia Provider

Checklist

Oxygen

Continuous pulse oximetry OR & PACU

CO₂ detection (for intubation)

WHO Essential Medicines

Palpation or Display of Pulse

Tissue Perfusion by clinical exam

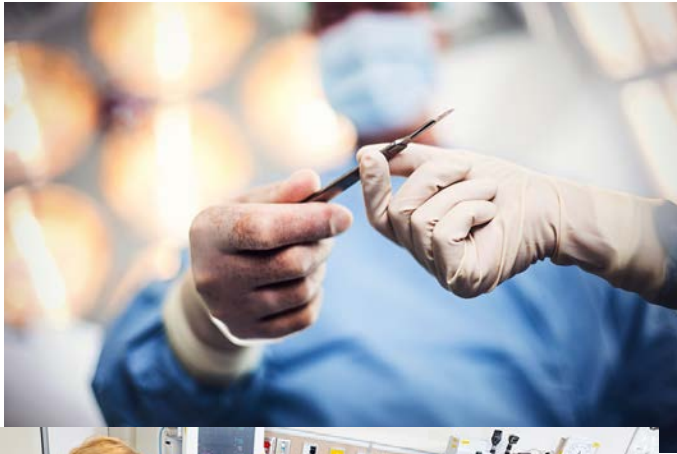
Non-invasive blood pressure monitoring

Pain Management

What is Global Surgery?

DEFINITIONS

Global surgery encompasses **anesthesia, all surgical specialties** including trauma surgery, general surgery, obstetrics & gynecology, perioperative medicine, critical emergency medicine, pain management and palliative care, rehabilitation, nursing and other health professions involved in the care of the surgical patient.



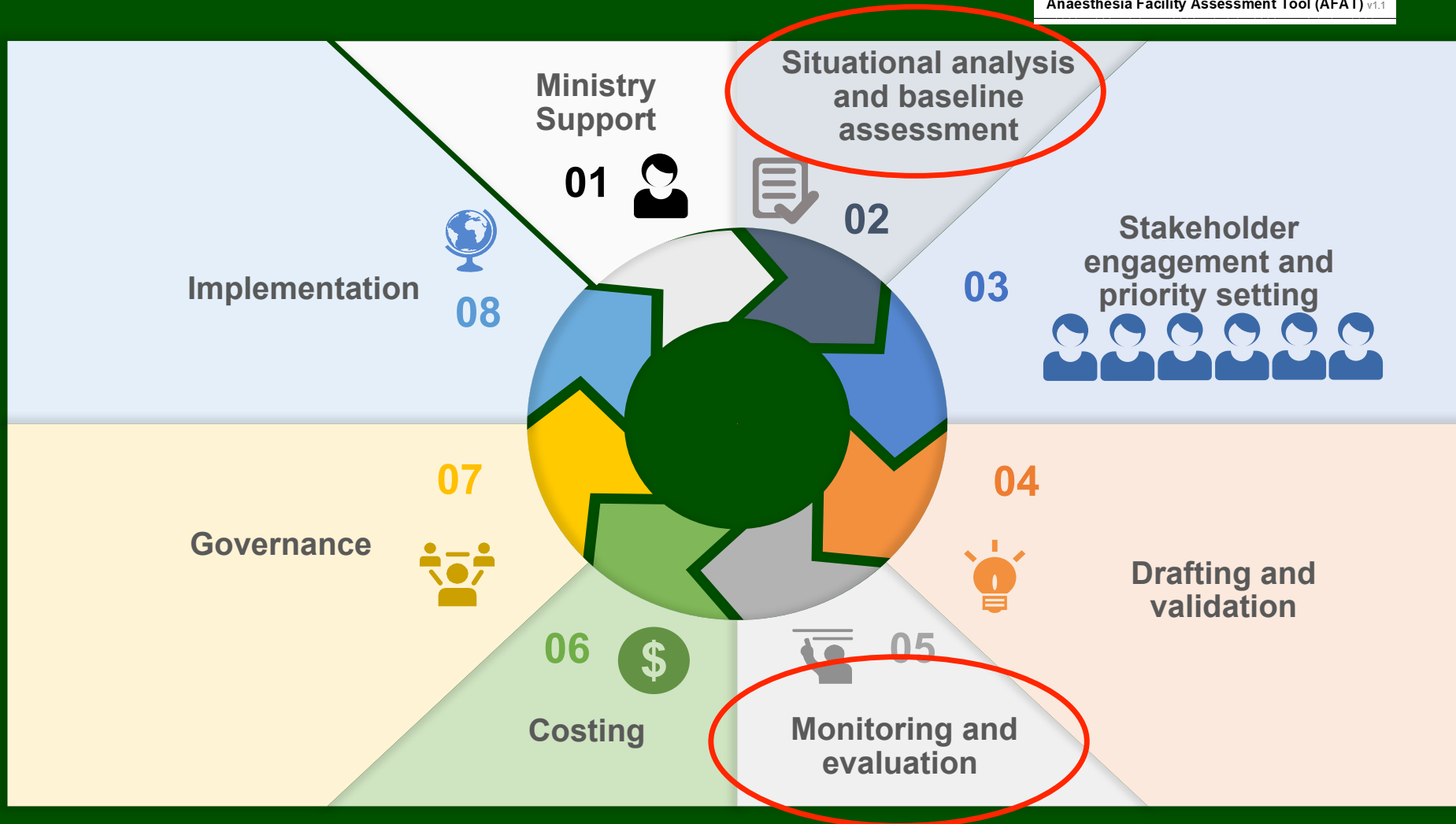
**Global Surgery
is
All of These
Anesthesia involved in all**



Global strategy on
human resources
for health:
Workforce 2030

- Mere availability of health workers is not sufficient to translate into effective service coverage:**
- *equitably distributed*
 - *accessible by the population*
 - *possess the required competency*
 - *are motivated and empowered to deliver quality care that is appropriate and acceptable to the sociocultural expectations of the population*
 - *are adequately supported by the health system*

National Surgical Obstetric Anesthesia Planning




Can J Anesth/J Can Anesth (2015) 62:1239–1243
DOI 10.1007/s12630-015-0484-y



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EDITORIALS

Improving perioperative outcomes in low-resource countries: It can't be fixed without data

Thomas G. Weiser, MD, MPH  • Emmanuel M. Makasa, MBChB, MPH • Adrian W. Gelb, MBChB