



lifebox
Saving lives through safer surgery

ANESTHESIA MORTALITY

Global outcomes:

Cooper et al Anesthesiology 2002 97: 1609-17
Walker et al Lancet 2008 371: 968-9

| | Year | Anaesthesia mortality |
|----------------|------|-----------------------|
| United Kingdom | 1987 | 1:185000 |
| Netherlands | 1997 | 1:124000 |
| Zambia | 1987 | 1:1925 |
| Malawi | 2000 | 1:504 |
| Zimbabwe | 2001 | 1:482 |
| Togo | 2005 | 1:133 |

Around the world, millions of lives are put at risk every year because of unsafe surgery and anesthesia. At Lifebox®, we believe surgery and anesthesia should be life-saving, not life-threatening.



GLOBAL PULSE OXIMETRY GAP

- 70,000+ operating rooms perform surgery without access to a functioning pulse oximeter

Global operating theatre distribution and pulse oximetry supply: an estimation from reported data

Luke M Ford, Thomas O'Winey, William R Berg, Stuart F Lippitt, Alan F Moran, Angela Cleugh, Ian W Wilson, Sarah Danks, And A Gosselin

Summary
Background: Surgery is an essential part of health care, but resources to ensure the availability of surgical services are often inadequate. We estimated the global distribution of operating theatres and quantified the availability of pulse oximeters, which is an essential monitoring device during surgery and a potential measure of operating theatre resources.

GLOBAL NEED - GLOBAL CRISIS



WHO SURGICAL SAFETY CHECKLIST

| Before induction of anaesthesia | Before skin incision | Before patient leaves operating room |
|--|--|---|
| <p>Identify the patient and procedure</p> <ul style="list-style-type: none"> Has the patient confirmed to the operating list, procedure, and consent? Is this the correct patient? Is the right site? Is the anaesthetist/clinician and identification chart identified? Is the pulse oximeter on the patient and functioning? Is the patient's name, procedure, and consent confirmed for another time? Are antibiotic prophylaxis have given within the last 60 minutes? Is the antibiotic given? | <p>Confirm all team members have identified themselves by name and role.</p> <ul style="list-style-type: none"> Confirm the patient's name, procedure, and consent for another time. Are antibiotic prophylaxis have given within the last 60 minutes? Is the antibiotic given? <p>Antiseptic of Central Venous Catheter</p> <ul style="list-style-type: none"> Is the central venous catheter (CVC) on the patient? Is the CVC on the patient? Is the CVC on the patient? Is the CVC on the patient? | <p>Identify the patient</p> <ul style="list-style-type: none"> Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? <p>Is the patient identified to the operating list, procedure, and consent?</p> <ul style="list-style-type: none"> Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? Is the patient identified to the operating list, procedure, and consent? |



CHALLENGE: INVISIBLE END USERS



CHALLENGE: INAPPROPRIATE EQUIPMENT



CHALLENGE: FRAIL INFRASTRUCTURE



SOLUTION: THE LIFEBOX PULSE OXIMETER



CHALLENGE: HISTORIC FAILURE OF EQUIPMENT DISTRIBUTION



CHALLENGE: LONG-TERM VISION



SOLUTION: FIND THE NETWORKS



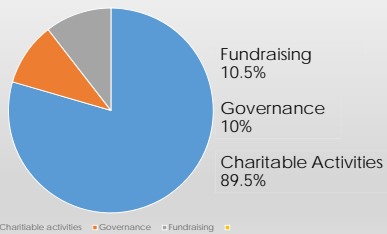
FROM DESK TO GLOBAL NETWORK IN 5 YEARS



SOLUTION: EMPOWER YOUR END USER



LIFEBOX SPENDING



SOLUTION: EDUCATION



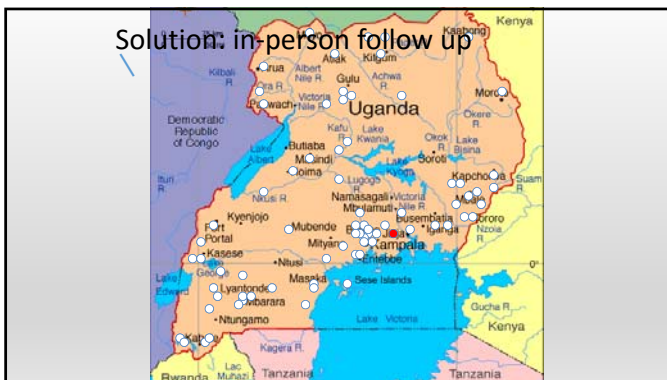
SOLUTION: REINFORCE SELF-LEARNING

ADVOCATE & DONATE

www.lifebox.org/speakers-bureau



Solution: in-person follow up



EDUCATE & COMMUNICATE

www.lifebox.org/professional/education



Lifebox Foundation

@SaferSurgery

Safersurgery

Solution: research and follow up

| | |
|--|-----------|
| The oximeter improves the safety of my patients | 68 (100%) |
| The oximeter acts as an early warning to me | 67 (99%) |
| Using an oximeter makes me feel less stressed | 66 (97%) |
| The oximeter tells me when I need to give oxygen | 59 (87%) |
| The oximeter acts as a warning signal to the surgeon | 53 (78%) |
| The oximeter saves me from wasting oxygen | 48 (71%) |

Evaluation of a large-scale donation of Lifebox pulse oximeters to non-physician anaesthetists in Uganda

L. C. Finch, R. Y. Kim, S. Tumbo, J. K. Kwanuka, I. A. Walker, L. H. Wilson, T. G. Welton, W. R. Barry, A. A. Gawande 17

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OVER THE LAST FIVE YEARS
LIFEBOX HAS PROVIDED MORE
THAN 10,000 PULSE OXIMETERS
TO 100 COUNTRIES, MAKING
SURGERY SAFER FOR AN
ESTIMATED 10 MILLION PATIENTS.



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