



**ECCU 2017 CONFERENCE & EXHIBITION • A CALL TO ACTION...AND ALL THAT JAZZ!**

# Quality CPR in México

*Dr. Jorge Rembis*

*RCP México*



# Presenter Disclosure Information

**Dr. Jorge Rembis**  
Quality CPR in México

## **FINANCIAL DISCLOSURE:**

- No relevant financial relationships to disclose

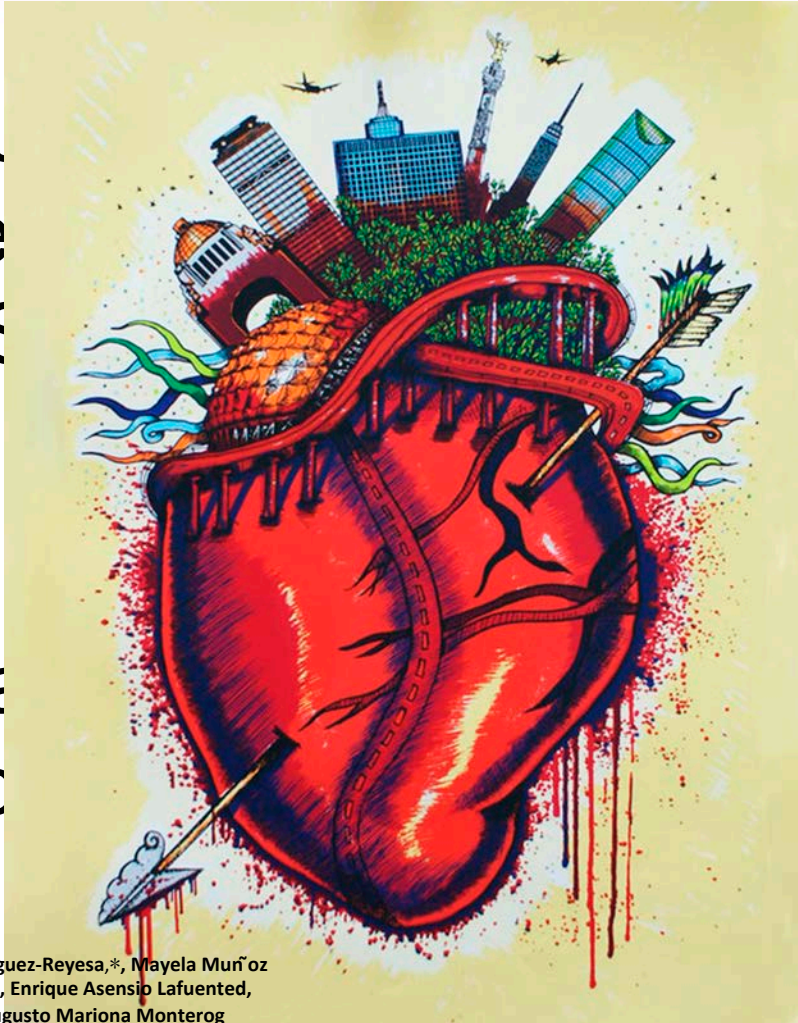
## **UNLABELED/UNAPPROVED USES DISCLOSURE:**

- No unlabeled/unapproved uses will be discussed

# PROBLEMATIC

In Our Country  
people a year  
can lead to S

In Mexico,  
cause of death  
from cardiac  
of deaths in



in 1,000  
illation that

ne leading  
e each year  
nts for 20%

Arch Cardiol Mex. 2015;85(4):329-336 Humberto Rodríguez-Reyesa,\*, Mayela Muñoz  
Gutiérrez, Manlio F. Márquez, Gerardo Pozas Garzac, Enrique Asensio Lafuented,  
Fernando Ortíz Galván, Susano Lara Vacaf y Vitelio Augusto Mariona Monterog

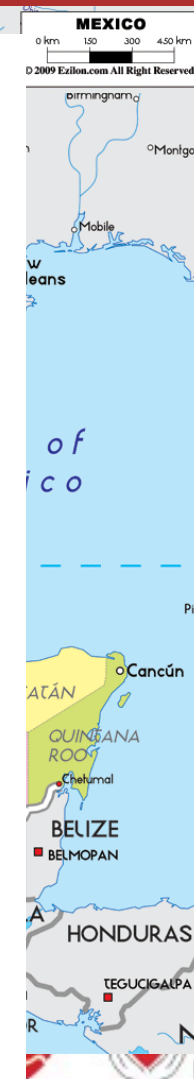
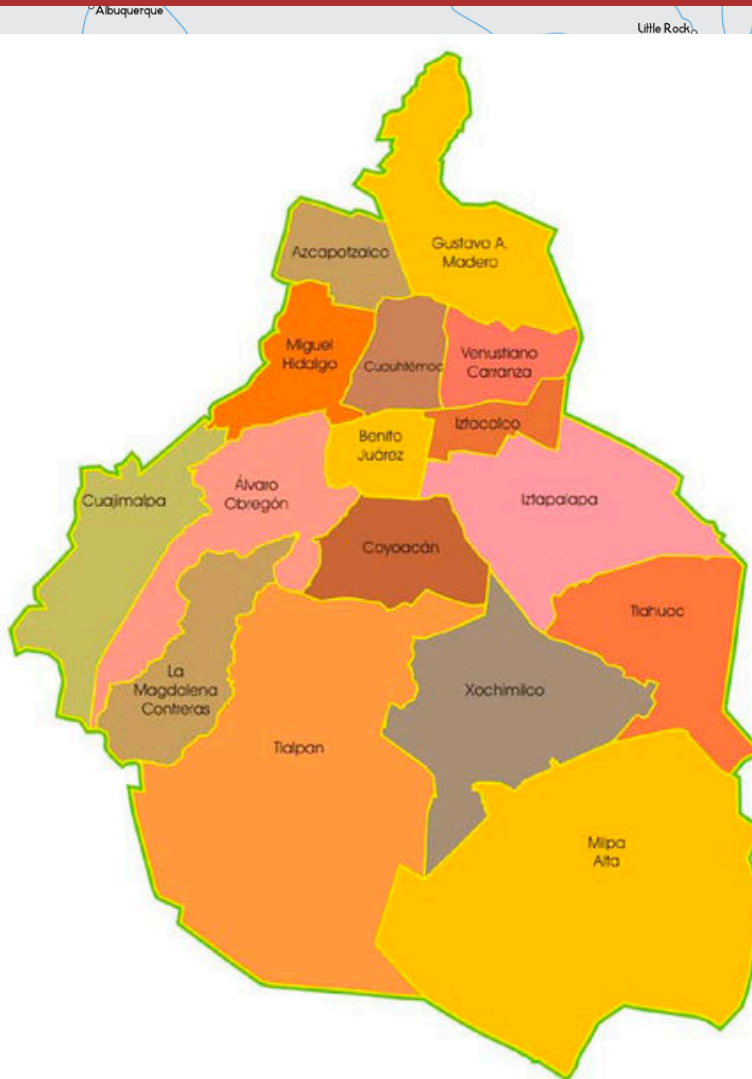
# Quality is not an act, it's a habit





# Comparison





Emergency Cardiovascular Care Update



**California 423.971 Km2**



**México City 1.495 Km2**

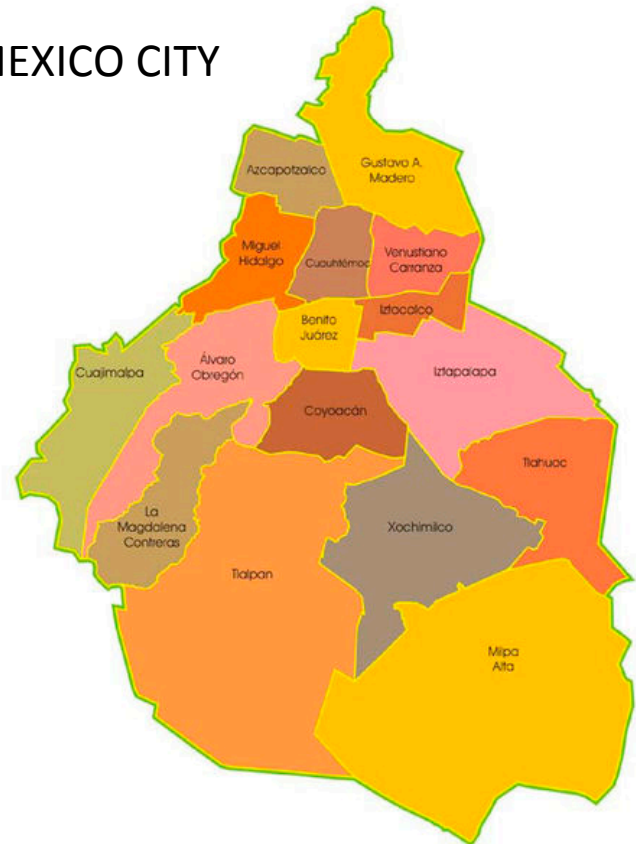
# L.A. Vs México City

LOS ANGELES



Population 3,884 millions

MEXICO CITY



Population 8,851 millions



	México	United States
<b>Budget Revenues:</b>	266.90 billion	2.45 trillion
<b>Population below poverty rate:</b>	51.3%	15.1%

Central Intelligence Agency Library Publications

# Health Services

	United States	México
<b>Health expenditures:</b>	17.1% GDP	6.1% GDP
<b>Obesity - adult prevalence rate:</b>	35%	27%
<b>Hospital bed density:</b>	3.3 beds/1,000 population	1beds/1,000 population
<b>Physicians density:</b>	2.4 physicians/1,000 population	2.1 physicians/1,000 population

Central Intelligence Agency Library Publications

# QUALITY?







“La reforma”



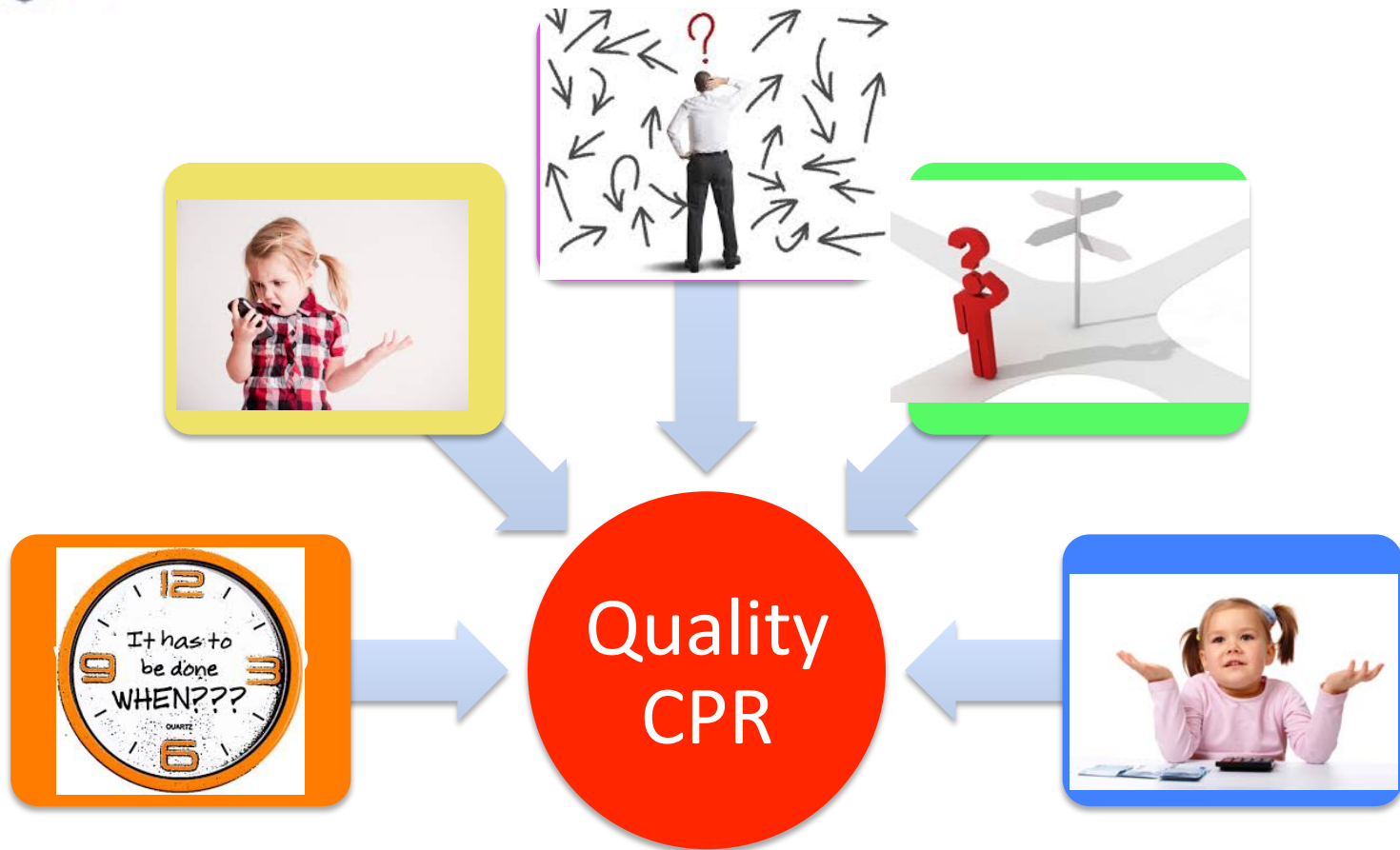
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# QUESTIONS TO ANSWER



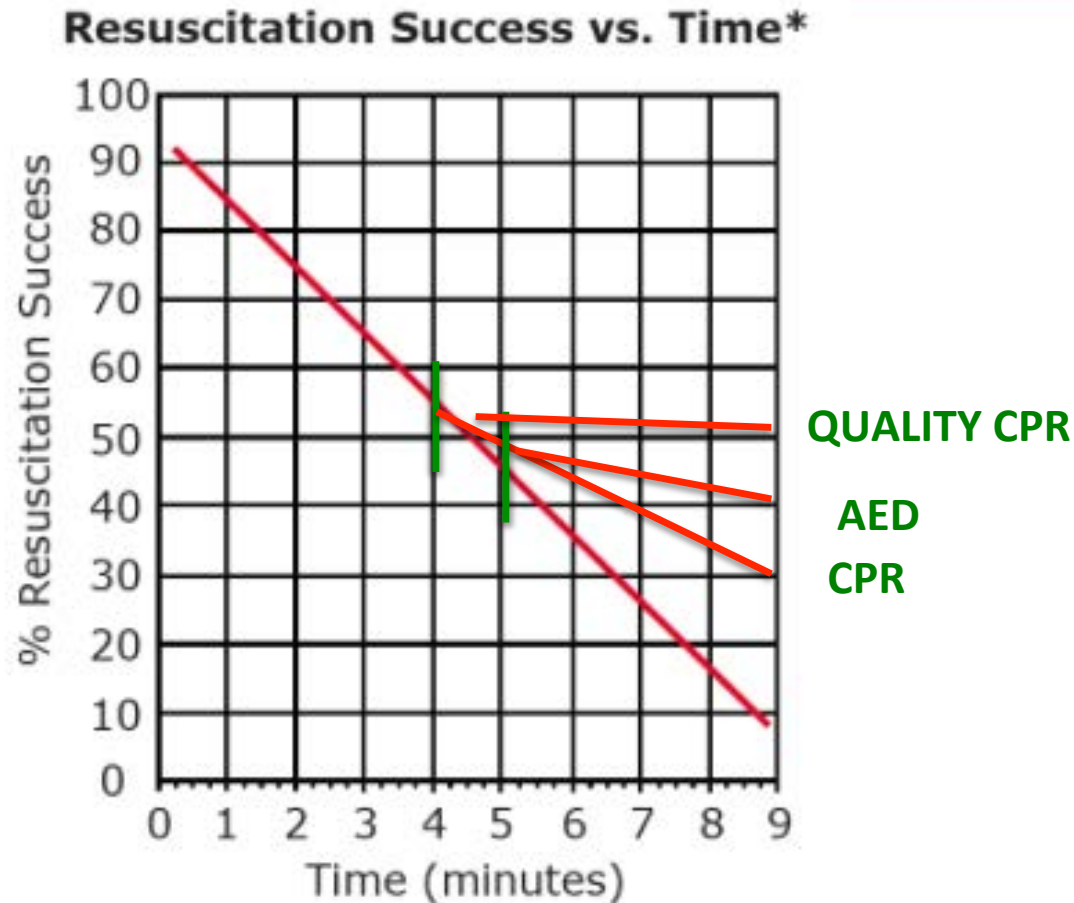


# WHAT ARE WE DOING

Creating a culture of prevention and quality CPR through training the citizens and emergency services and join efforts to save lives in our community.



# Resuscitation success Vs. Time



\*Adapted from text: Cummins RO, Annals Emerg Med. 1989, 18:1269-1275

# MÉXICO CPR

- Bystander CPR directly impacts survival
- Is infrequently performed
- Rates need to increase
- But in México we have a big problem, almost nobody knows CPR techniques and **less the Quality CPR techniques**

# POINTS OF OPPORTUNITY AND IMPROVEMENT

## System specific Chains of Survival

IHCA



Good but  
needs more  
**Quality**

Implement more  
cat lab and ICU

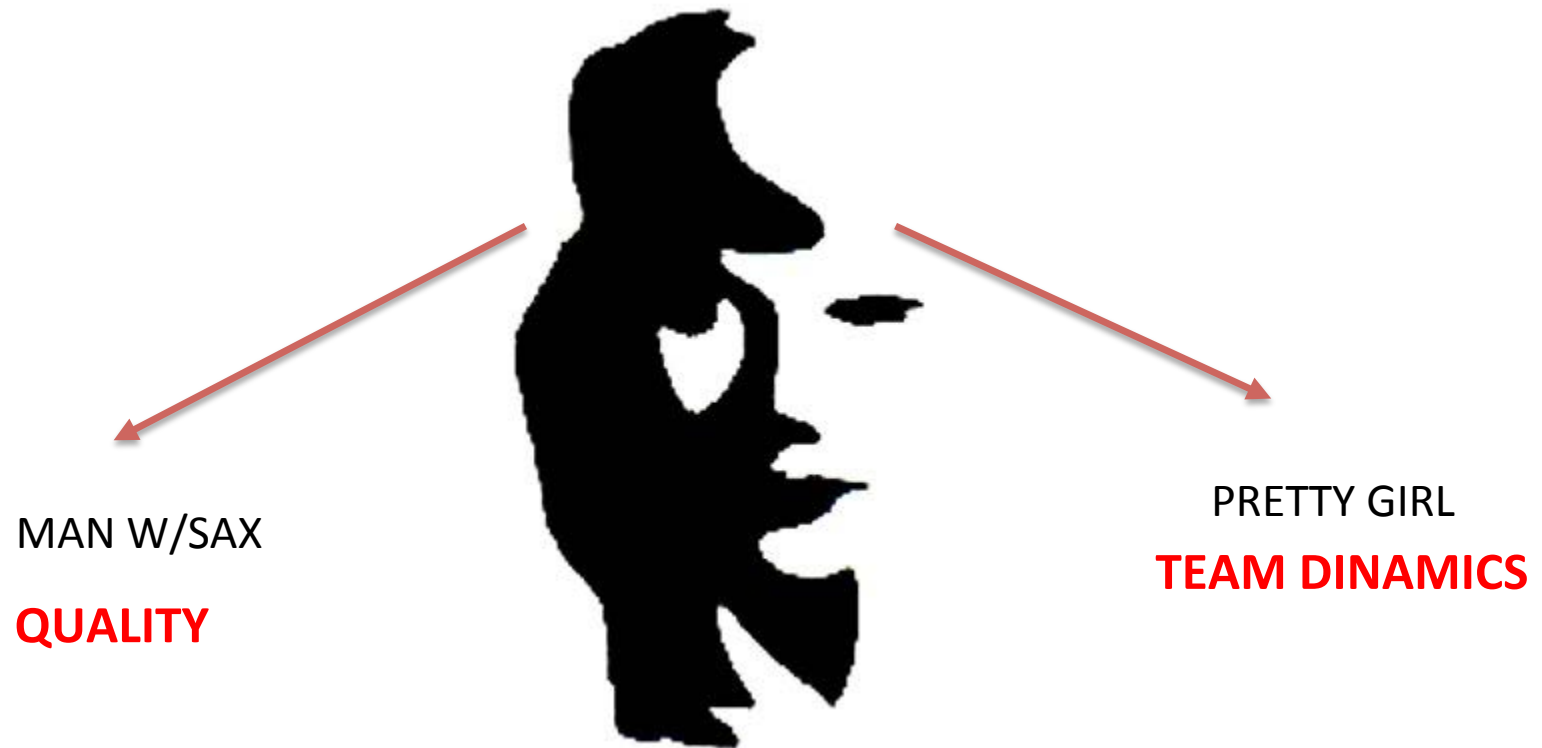
OHCA



**PROBLEM**



# Quality vs. Team dynamics



# Call to action

Disseminate, Promote, Train and Advise on all matters relating to the CPR, Emergency Cardiovascular Care and First Aid based on evidence, in order to reduce mortality from cardiovascular emergencies in México.











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# LEADERBOARD

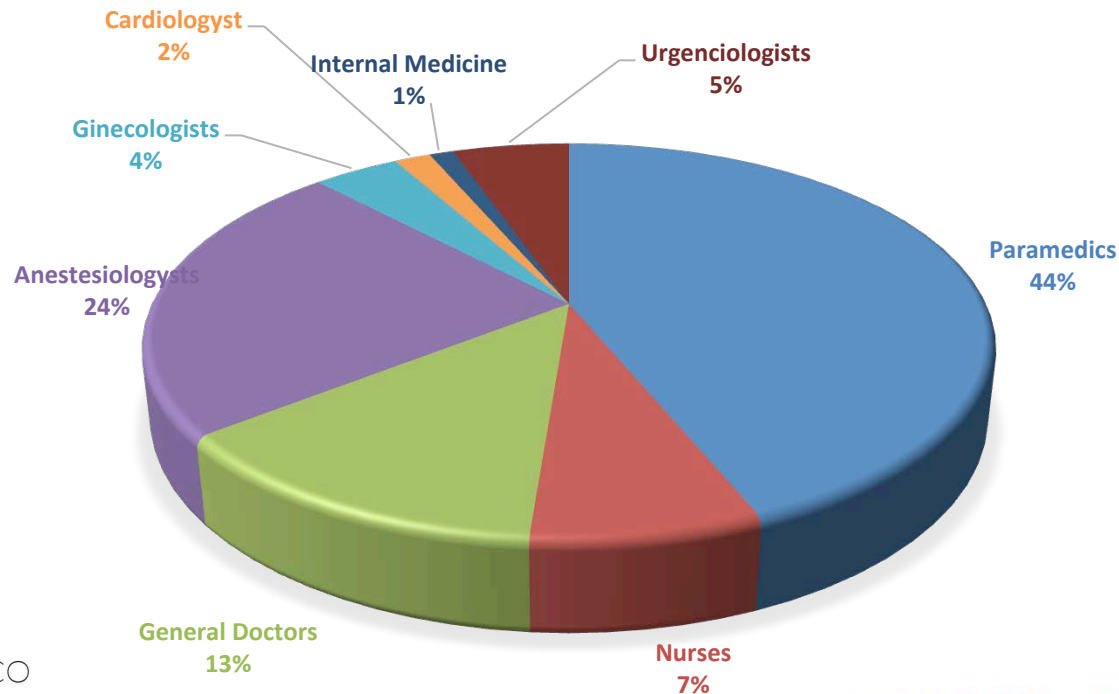
	SCORE
Muihouse ACLS Team	99.00%
Northampton Paramagic	98.96%
Team CPR Mexicali	98.92%
Ambulance Amsterdam	98.90%
Team Copenhagen	98.40%



# OBSERVATIONAL STUDY

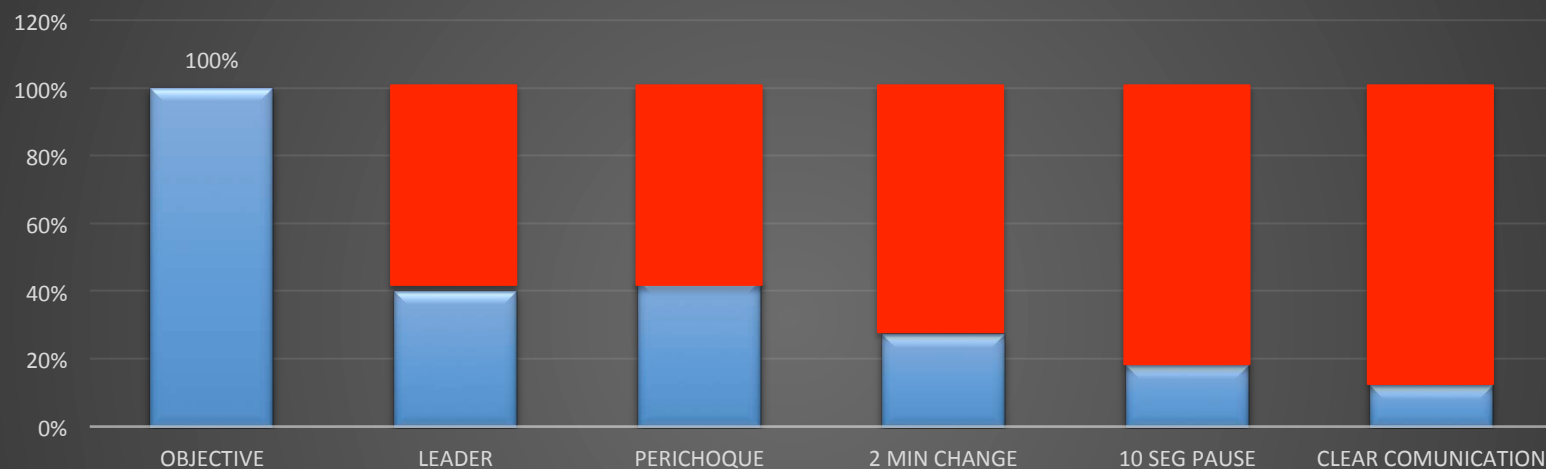
- Observational study of 1087 personnel during their training without knowing that data are obtained on the quality of their resuscitation

N = 1087

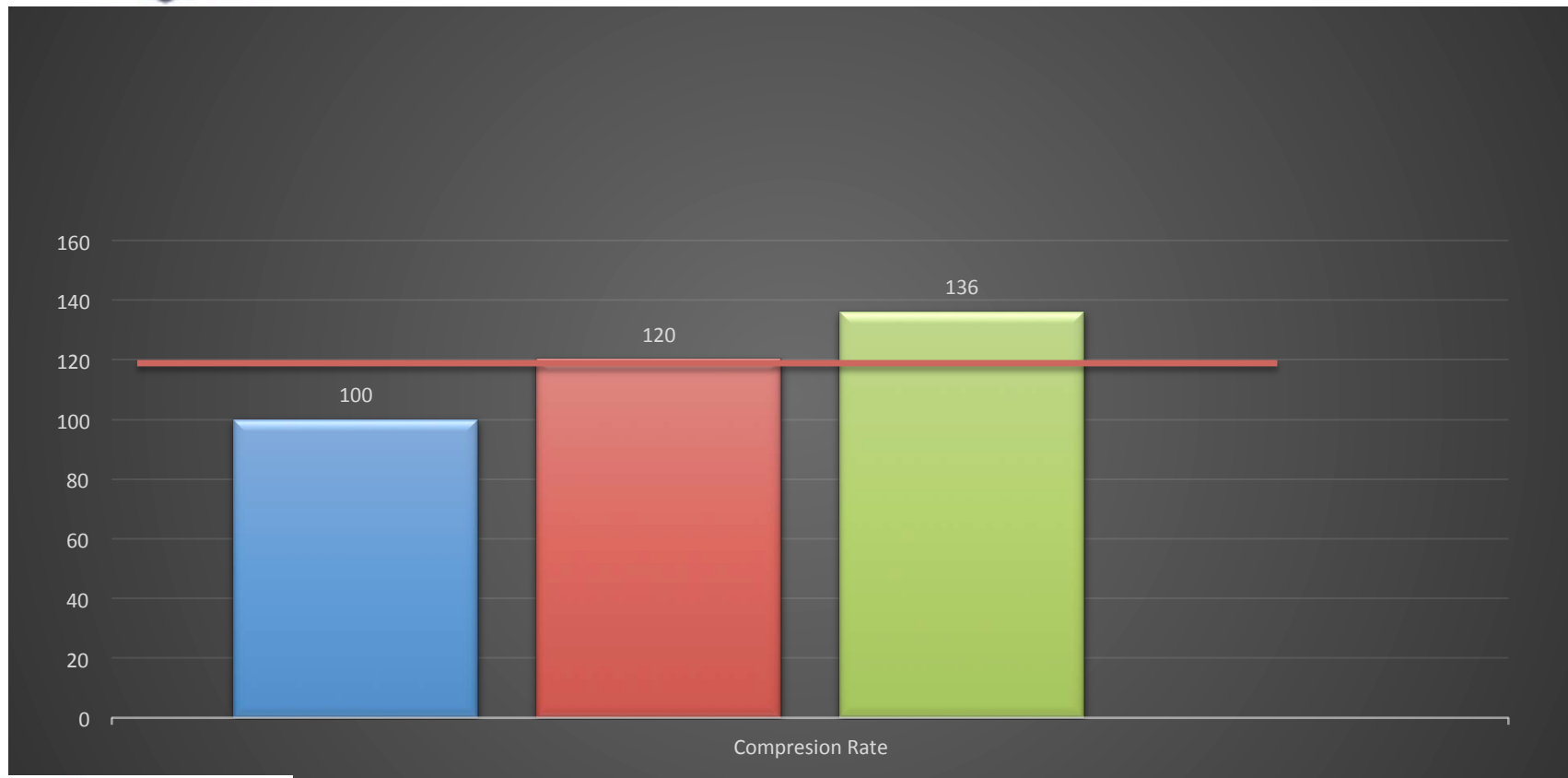




## PERFORMANCE OF CPR

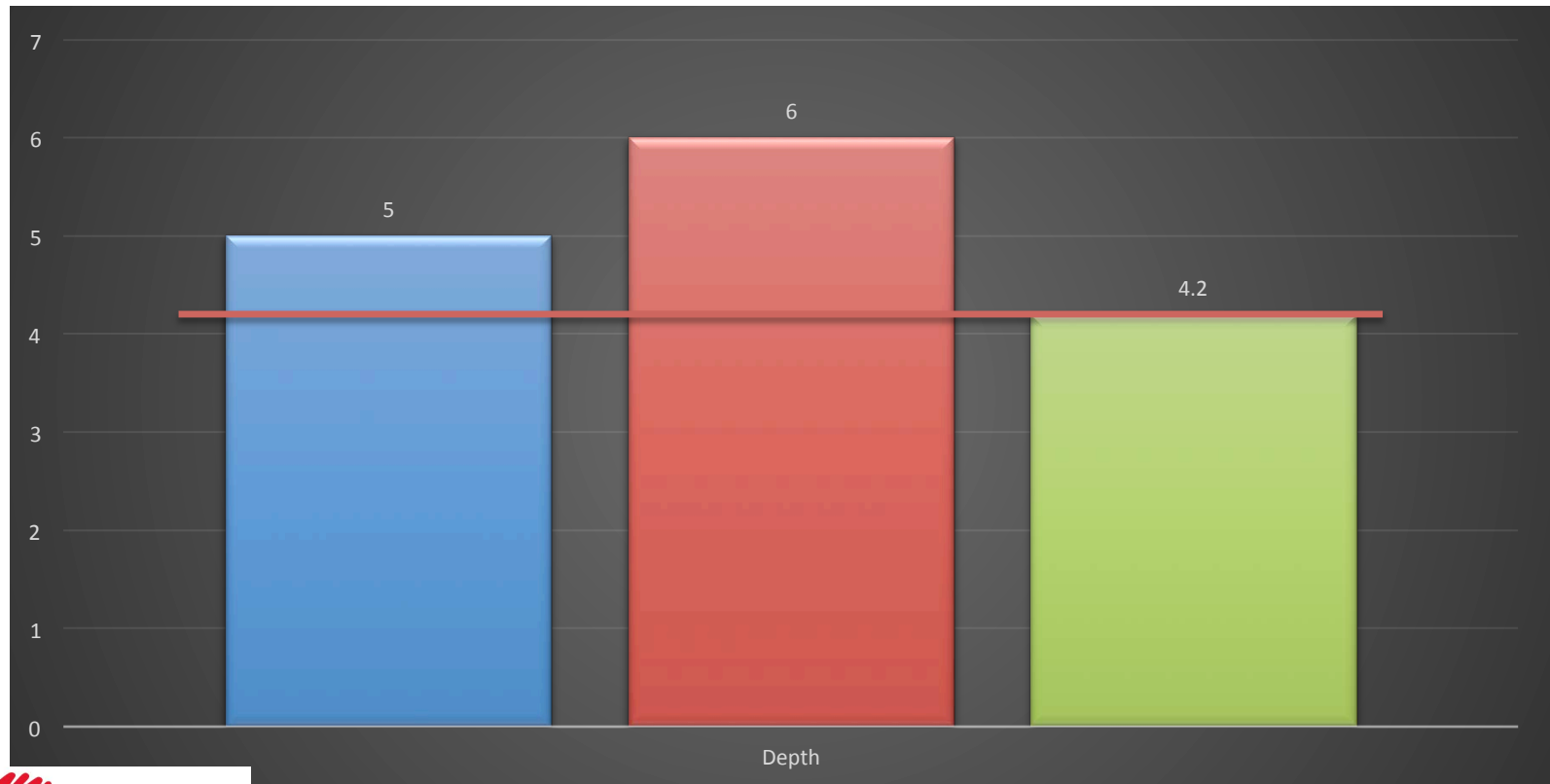


# COMPRESSION RATE

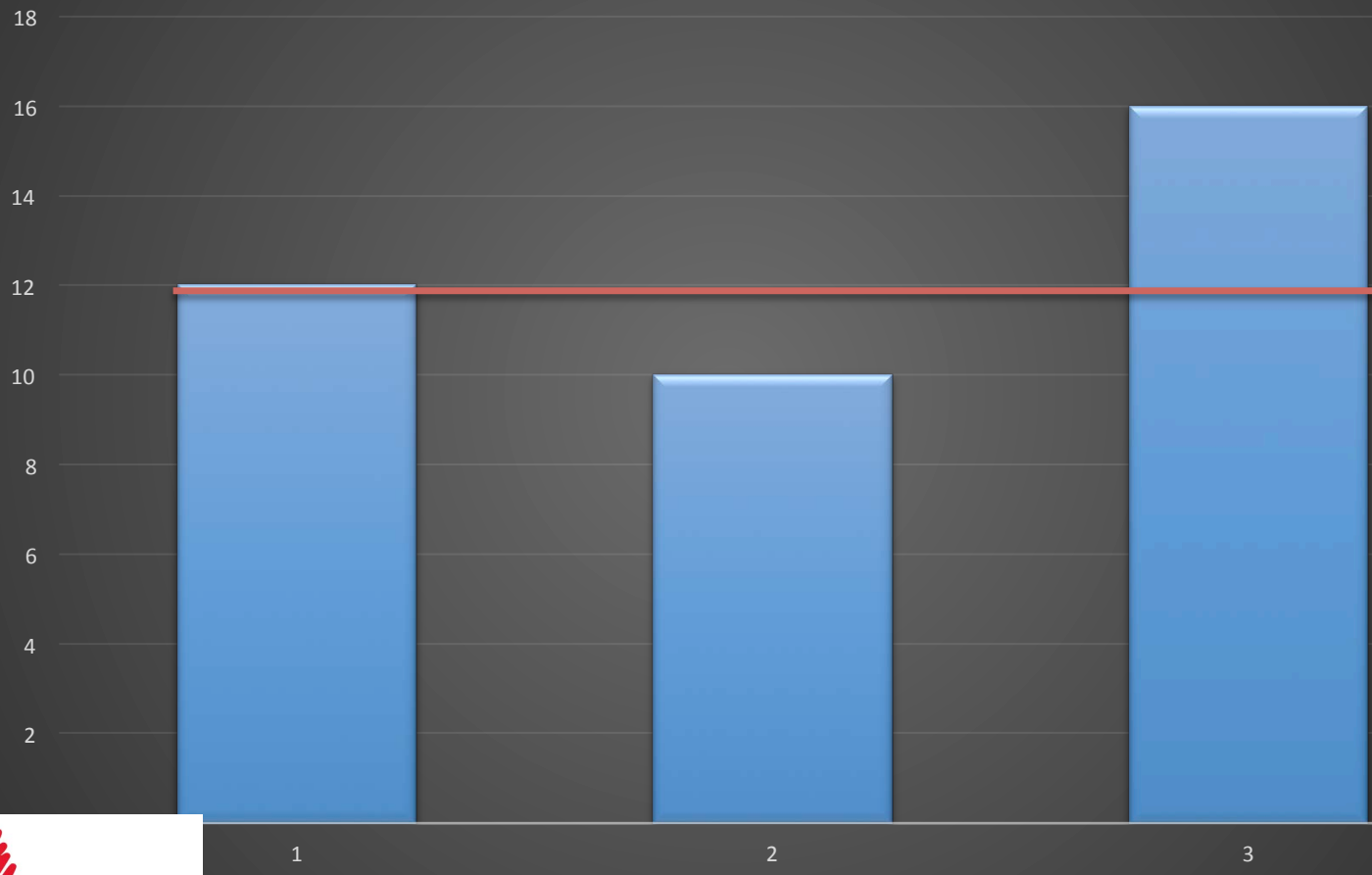




# DEPTH



## Ventilatory Rate

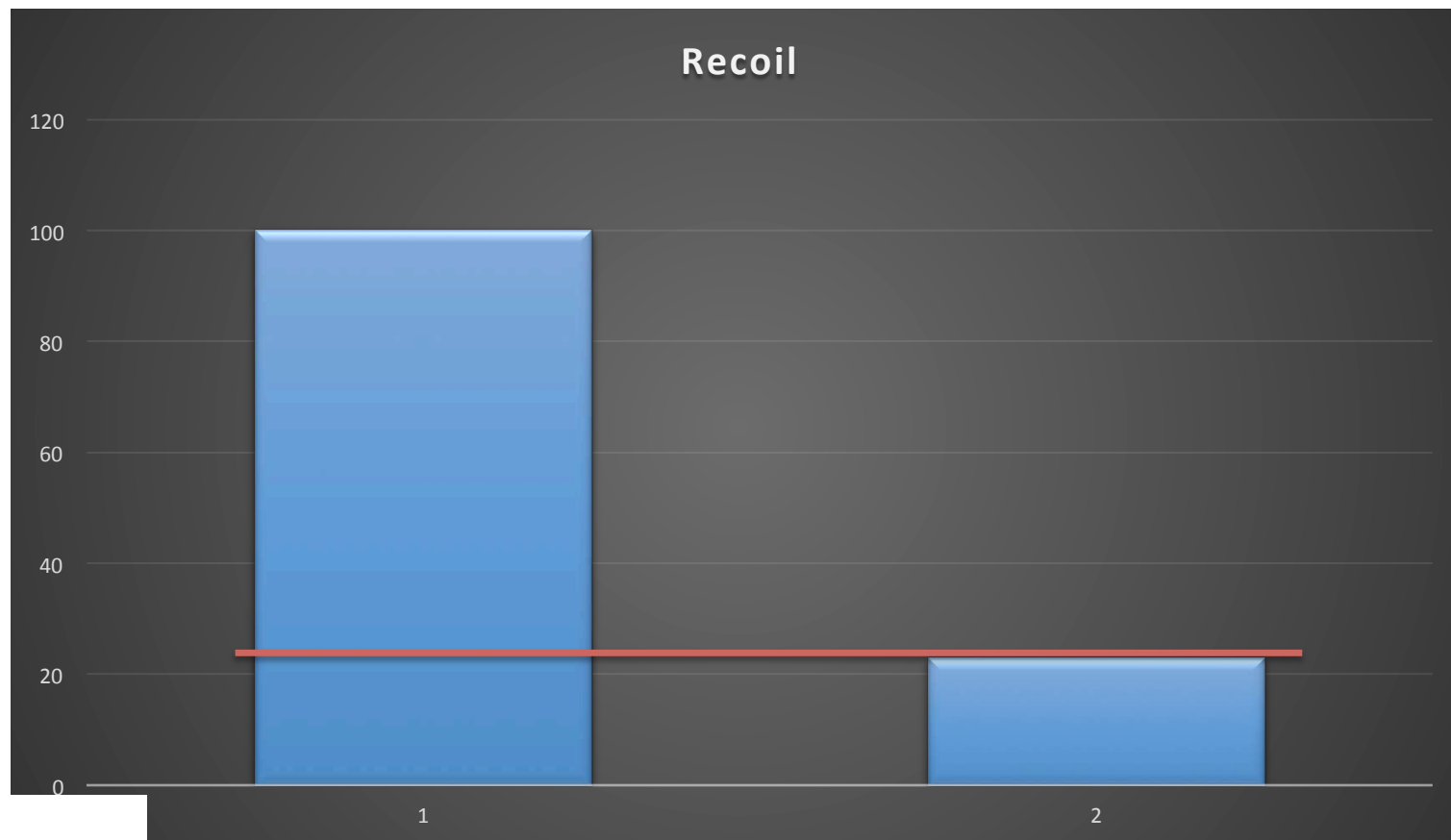


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## Recoil



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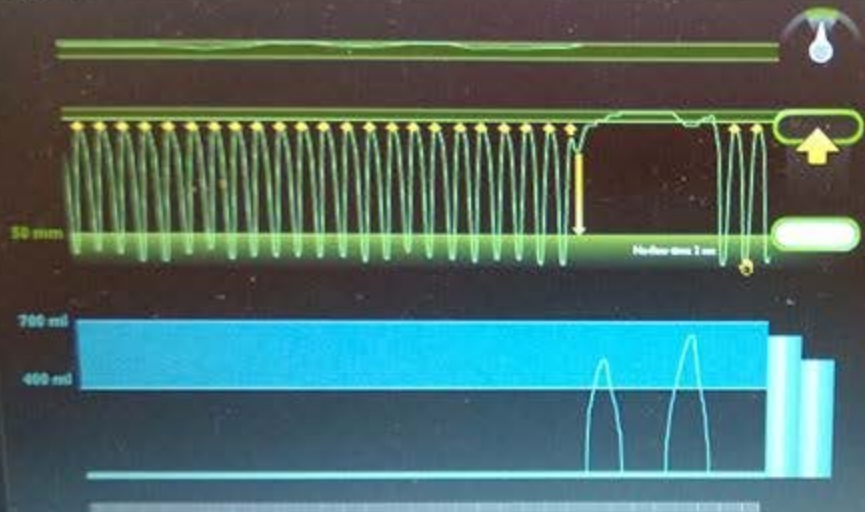






03:52

QCPR View



0  
Compressions/minute

61  
mm

636  
Volume (ml)

Scores

Top 10 CPR Champions

1	ABEFAM	92.9%
2	FALTAN 43	90.08%
3	CRM 50	88.4%
4	LA 50	76.4%
5	LUPITOS	72.67%
6	ROJOS UNO	61.54%
7	ALAS ROJAS	60.76%
8	NAVOLATO	60.61%
9	50s	52.16%
10	HEMÁNTE	34.67%

CPR  
by Laerdal



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www.rcp-mexico.org  
RCP DE CALIDAD



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2017   
for Core Update



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# WHEN & WHY

## GIORGIO ANGELO REMBIS SANDOVAL

BORN: 24 OCTOBER 2009

WEIGHT: 875 gr  
1 lb 14Oz

MEASURE: 44 cm  
17 in



















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# CONCLUSIONS

- CPR often ineffective because of technique
- Compressions not delivered steadily and constantly during resuscitation efforts
- Often compressions are too shallow, resulting in ineffective blood flow.
- **ONLY good quality of CPR improves chances for survival**



We are agents of change, we are not waiting for things to happen, we are not satisfied with what we have, so we seek to join forces for a better society in México

**WHY, WHEN, WHAT, WHERE, HOW**



# THANK YOU



@rembis

@rcpmexico