

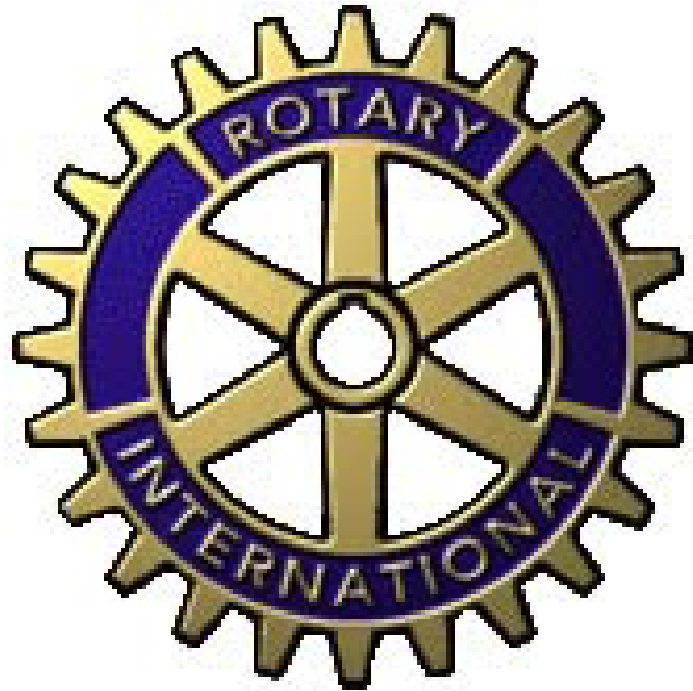
# Neonatal hearing screening in Guatemala: A joint effort



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# Joint venture



# Investment

## Rotary Club

- 3 OAE
- 1 portable ABR
- Salary for 1 technician
- 200 hearing aids
- Funds for training

## Smiles that Listen

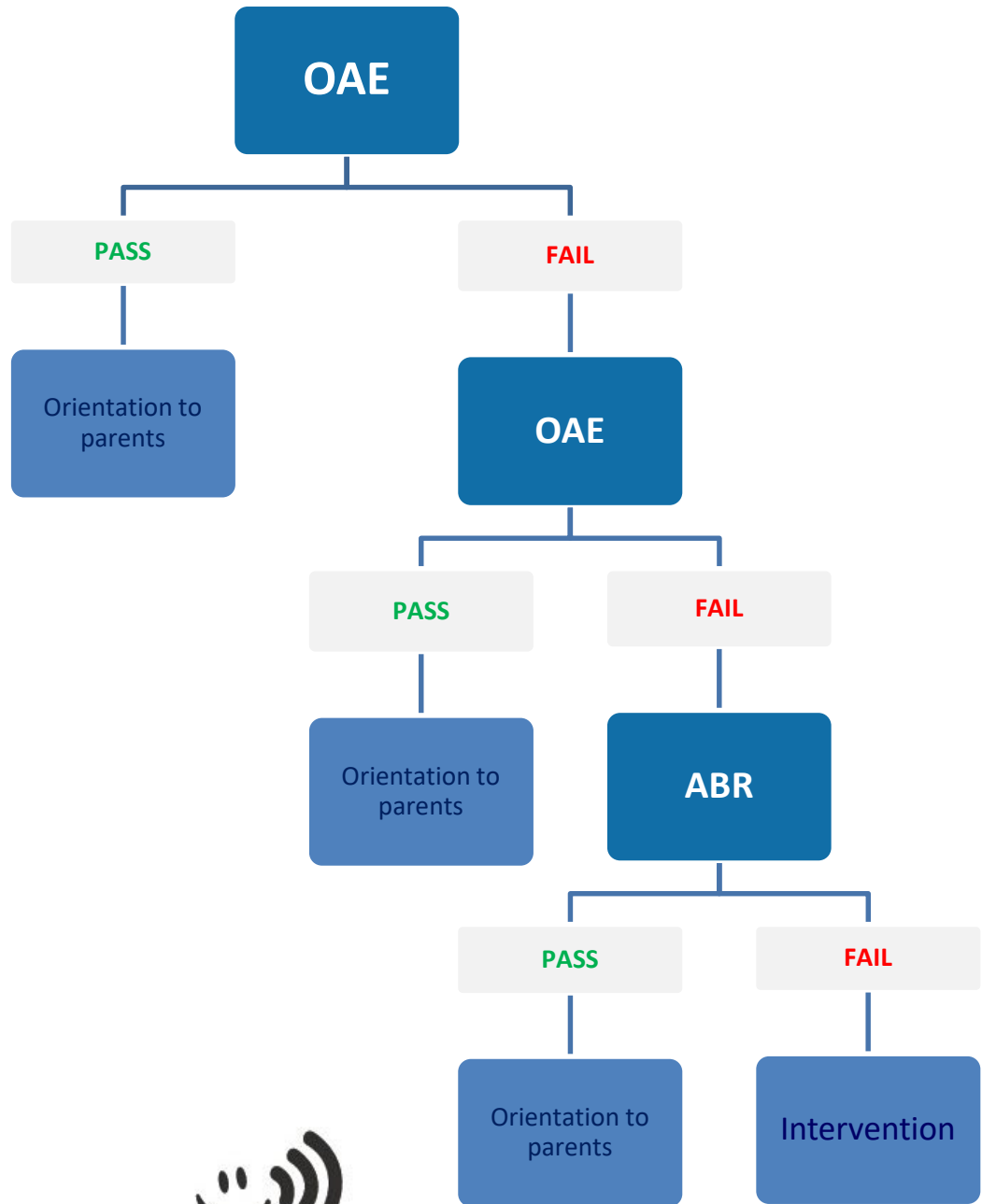
- expertise
- 2 technicians
- 1 supervisor
- Transportation
- Reports
- Follow-up services
- Contacts w/local hospitals



# Location



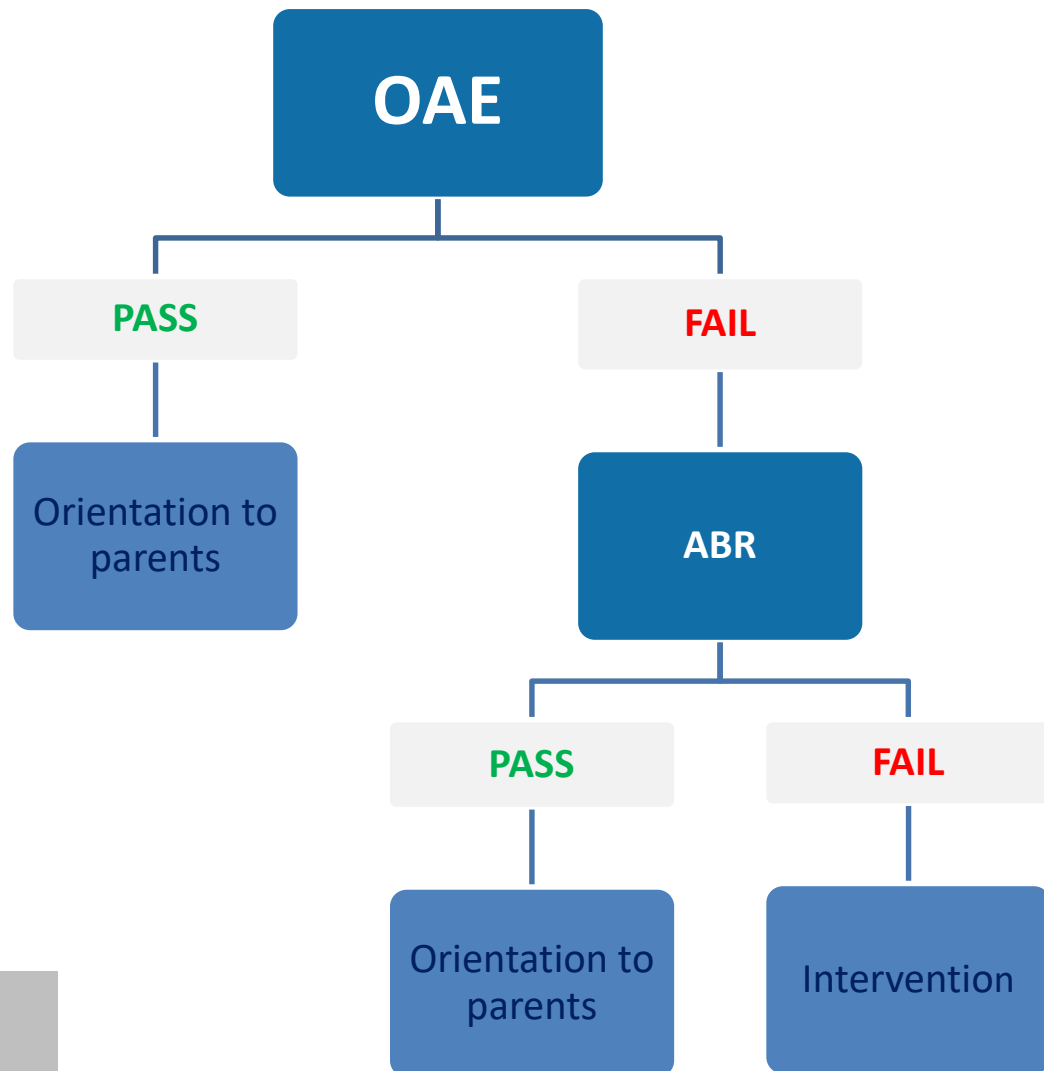
Protocol  
NO RISK babies



Whenever possible,  
we bring AABR for  
screening.



Protocol  
HIGH RISK babies



Whenever possible,  
we bring AABR for  
screening.



Place	Tested	Pass	Fail	Re test	Pass	Fail	Tested with ABR	Lost babies
Guatemala	303	291	12	9	7	2	2	3
San Cristobal	285	228	57	15	10	5	0	42
Mazatenango	380	258	122	46	43	3	3	76
Sololá (new)	31	26	5	0	-	-	1	-
Quetzaltenango (*)	133	52	81	40	29	11	1	41



Place	Hearing loss	Rate of hearing loss found	% of lost babies
Guatemala	2	6/1,132	1%
San Cristobal	0		15%
Mazatenango	2		20%
Sololá (new)	1		-
Quetzaltenango (*)	1		30%





Hearing loss	Degree		Fitted w/HA
6	Mild	0	
	Moderate	0	
	Severe	1	✓
	Profound	4	✓
	Bilateral microtia	1	✗



# Challenges

## Institutions

Burocracy for entering equipment

Lack of appropriate space

ICU monitors produce too much noise

Interested only in “at risk” babies

## Parents

Give false contact info

Mothers are unwilling to take the test

Families from far away places are difficult to locate for re test

## Process

Parents do not come back for follow up

Babies leave the hospital, 24 hrs after birth

Too young for Dx ABR

“Learning curve” of technicians (% of “fails” is still high)



# Other accomplishments



2 new testing locations in Guatemala City

Hospital  
Roosevelt

Hospital San  
Juan de Dios

Public hospitals, with an average of 30 deliveries per day



## One new site: Sololá

- Bought a 4<sup>th</sup> OAE with the same budget
- Sonrisas covers: salaries, transport, supplies





Mazatenango







Guatemala



San Cristobal





# Sololá





# Quetzaltenango



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## Needs

OAEs for new locations: east and north part of the country

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OAEs and salary for two technicians for daily screening in the public hospitals

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Funds for ABR subsidies

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Funds for Program Coordinator

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