

The CNN Annual Meeting and EPIQ Conference & Training Workshop

EPIQ program in the SIBEN Neonatal Network

Dr Martha Báez for the SIBEN Neonatal Network





SIBEN Ibero American Society of Neonatology.



21 countries





SIBEN

- Started in 2004
- Membership (2700 members)
 - Neonatal care physicians
 - Nurses
 - Respiratory Therapists





SIBEN

- A non for profit organization
- Registered in the United States
- Purpose: to improve the quality of neonatal care in the region
- Programs: education and research directed to physicians and allied personnel

An Pediatr (Barc) 2004;61(5):390-2





SIBEN's programs

- 1. Neonatal follow up
- 2. Neonatal Nursing programs
- 3. Education workshop, Conferences
- 4. Publications (FarmaSIBEN)
- 5. Consensus www.siben.net
- 6. Neonatal Network with support from CNN -EPIQ





Neonatal Problems in Iberoamerica

Neonatal mortality ranges for 1000 live births:

Between 5 (Cuba)¹ and 22 (Bolivia)²

% of Deaths in infants < 5yo due to prematurity:

From 15% (Bolivia and Uruguay) to 25% (Paraguay)³

1.SIBEN

- 1. Year 2009 in WHO report of 2011.
- 2. Year 2008 in WHO report of 2011.

Red Neonatal SIBEN



Neonatal Problems in Iberoamerica

SIBEN Neonatal Network 2010 - 2013

% MORTALITY in Preterm infant < 1500 g birth weight



Frequency of morbidity and mortality in neonates born <33 weeks gestational age who required resuscitation in SIBEN and CNN neonatal networks

	SIBEN (n=1245)	CNN (n=10721)	Adjusted OR; 95% CI
Mortality	266 (21%)	790 (7%)	6.52 (5.25, 8.08)
RDS	813 (73%)	6761 (66%)	1.65 (1.40, 1.95)
BPD at 36 weeks	243 (27%)	1944 (20%)	2.83 (2.33, 3.42)
NEC	58 (5%)	519 (5%)	1.21 (0.89, 1.64)
ROP ≥ grade 3	25 (4%)	430 (9%)	1.38 (0.85, 2.23)
IVH ≥ grade 3	130 (14%)	1135 (13%)	1.38 (1.09, 1.74)
Nosocomial sepsis	232 (19%)	1491 (14%)	1.81 (1.52, 2.16)

Martha Baez¹, Angela Hoyos¹, Fernando Aguinaga², Abhay Lodha³, Albert Akierman³, Carlos Fajardo³ 1.Clínica del Country, Bogotá, Colombia; 2 Hospital Metropolitano, Quito, Ecuador 3.University of Calgary, Canada. Submitted SIBEN Congress 2014, Mexico.

Mejorando el cuidado neonatal



Neonatal Problems in Iberoamerica Risk factors to pre-term birth

- Socio-economic and demographic risk factors¹
- Perinatal risk factors¹
- Environmental factors²

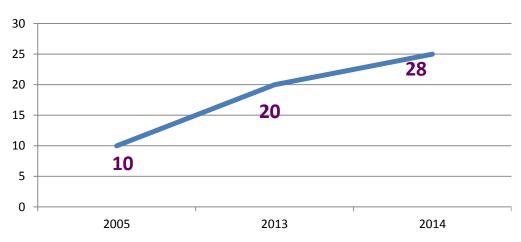
- 1.Ramsey PS, Rouse DJ. Therapies administered to mothers at risk for preterm birth and neurodevelopmental outcome in their infants. *Clin Perinatol* 2002;29(4):725-743.
- 2.Perlman JM. Cognitive and behavioral deficits in premature graduates of intensive care. *Clin Perinatol* 2002;29(4):779-797.





SIBEN NEONATAL NETWORK

Increase of NICUs over the years

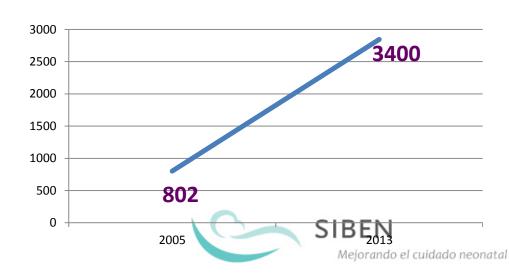


Premature

2013	# patients	%
< 33 weeks	727	25,5
< 1500 g	578	20,3

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Increase of Patients over the years





SIBEN NEONATAL NETWORK

Meetings

EPIQ Bogotá, March 2014

Red

	May. 2015		
EPIQ Workshop	March 2014		
	March. 2011		
NETWORK Meeting	First Monday of each month by Elluminate		
	XIII Congreso, Paraguay 2016		
	XII Congreso, Costa Rica 2015		
ANNUAL CONFERENCE	XICongreso, Mexico City, Mexico 2014		
	X Congreso, Cartagena, Colombia, 2013		
	IX Congreso, Belo Horizonte, Brasil, 2012		
	VIII Congreso, Santiago de Chile, Chile, 2011		
	VI Congreso, Cusco, Perú, 2009		
	V Congreso, Mar del Plata, Argentina, 2008		
	IV Congreso, Granada, España, 2007		
	III Congreso, Cancún, México, 2006		
Megnatal	II Congreso, Isla Margarita, Venezuela, 2005		
NEXII8181	I Congreso, Islas Galapagos, Ecuador, 2004 SIBEN		



Next Main Activities

EPIQ May, 2015. Tucuman

You are welcome to join us!









EPIQ within SIBEN Neonatal Network

Network

Identify problems

EPIQ cycles to improve quality







EPIQ Methods

Local processes	Strategy	Network processes
Identification of	Review local data	Review data of SIBEN Network
Problems and needs	Compare local and network data	
Creation of local EPIQ team	Share objectives and experiences	Training of EPIQ teams
Plan local change	Meetings and Share advances and dificulties	Training, monitoring and resolving doubts or problems.
Collect local indicators	Compare between local and network	Benchmark
Review local outcomes	Compare between local and network	Benchmark
New cycles		





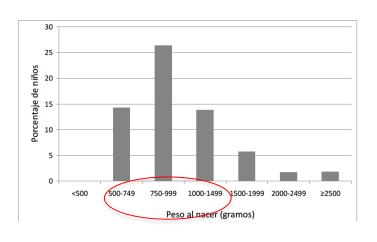
First problem identified:

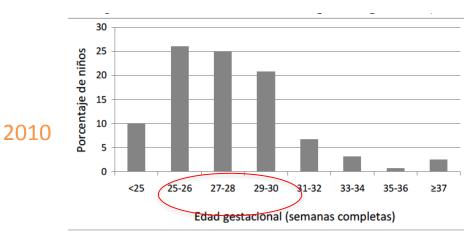
Nosocomial infection

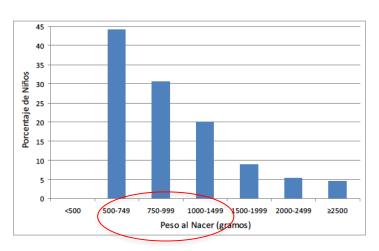


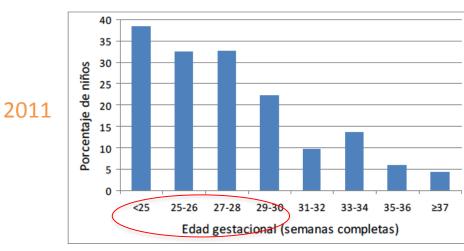


Nosocomial Infection. SIBEN NN





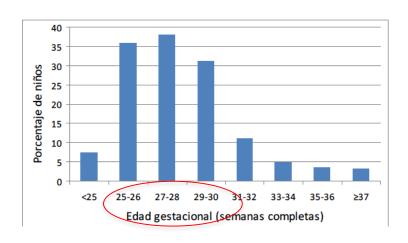


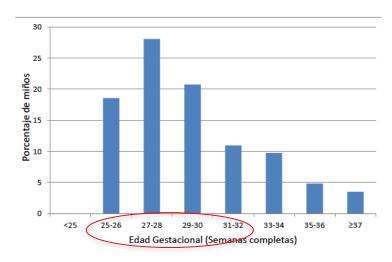






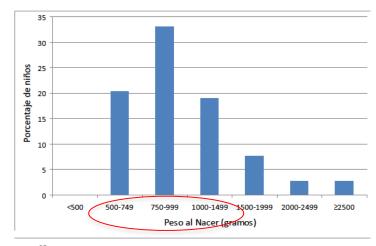
Nosocomial Infection. SIBEN NN



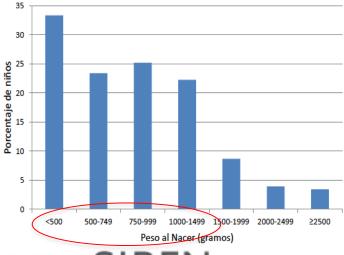


Red Neonatal SIBEN





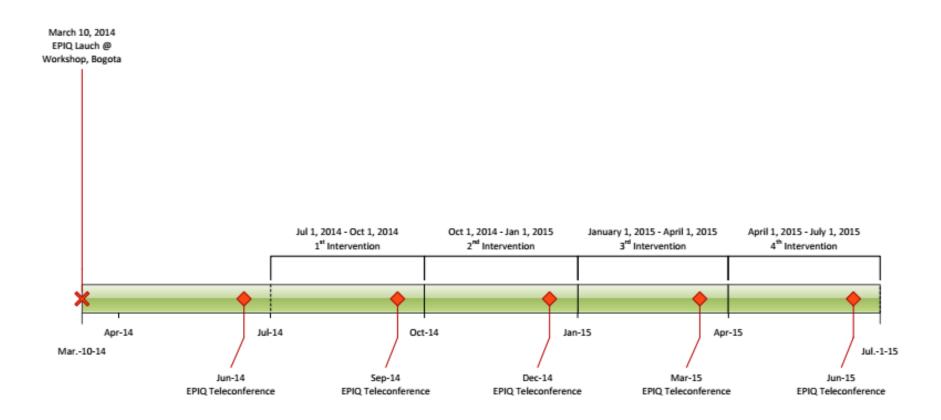




SIBEN

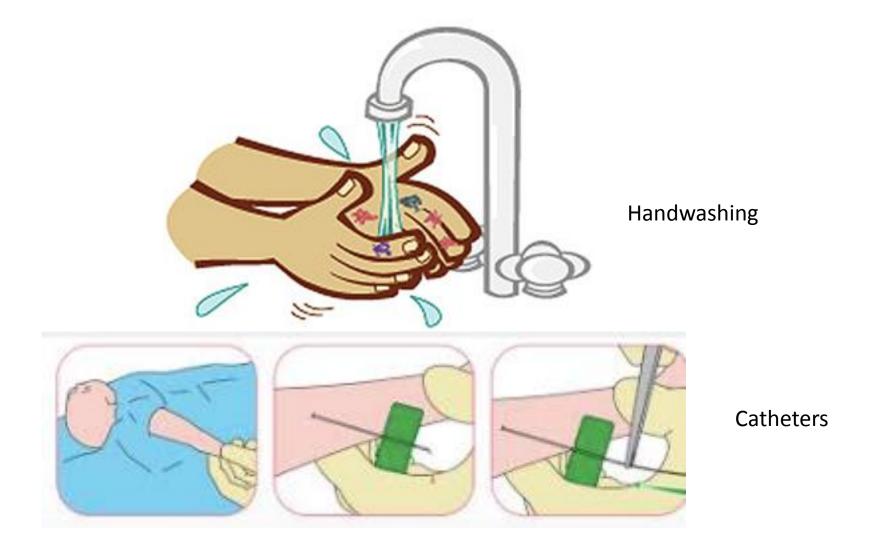
Mejorando el cuidado neonatal

EPIQ - SIBEN 1st year plan









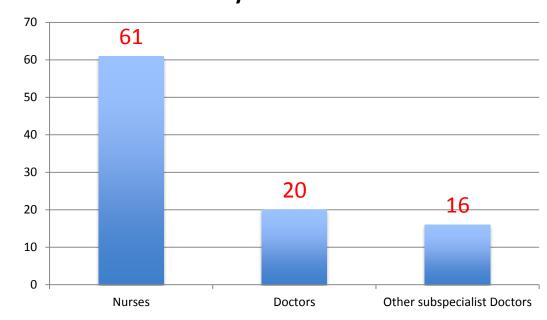




Local report

% compliance handwash before EPIQ cycle. n=148

Percentage



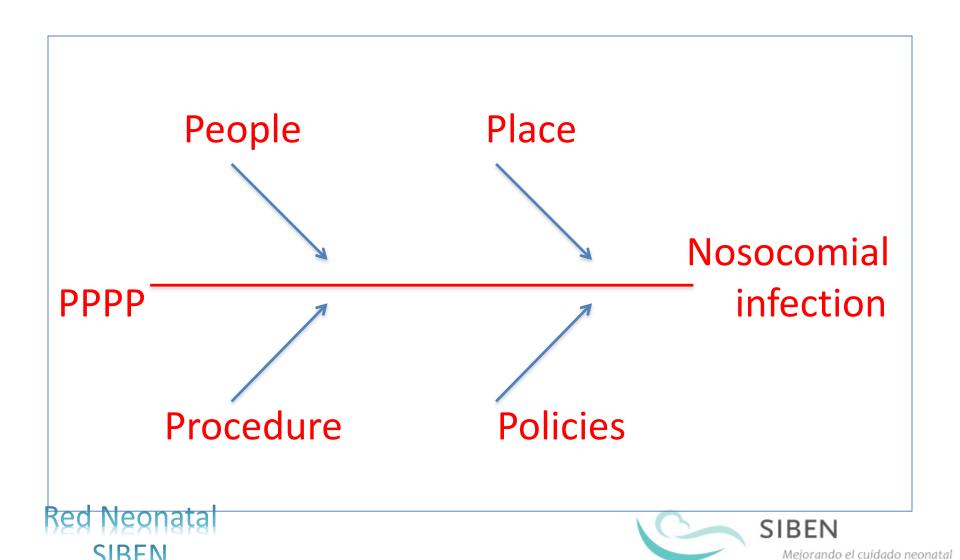
December 2014

Maria Jorgelina Neme. Maternidad Nuestra Señora de Las Mercedes. Tucumán. Argentina

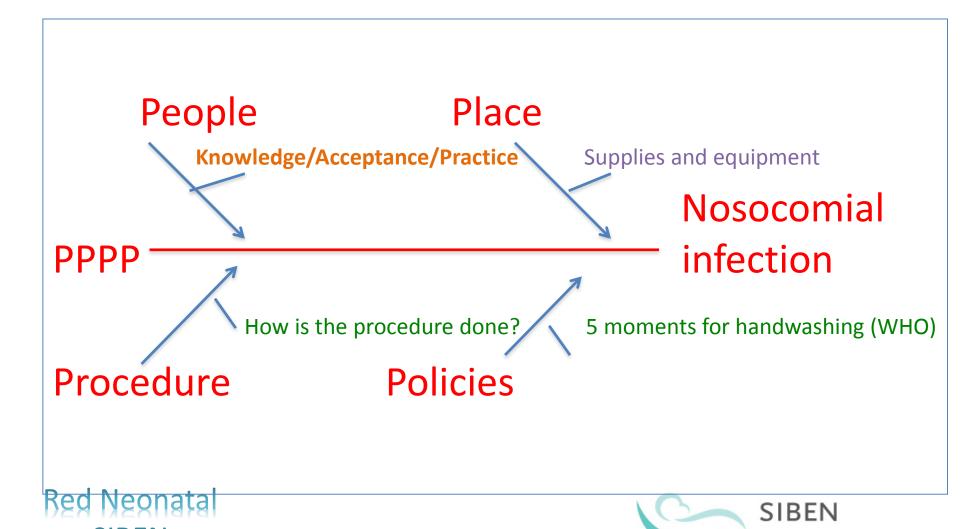




Step 1: fishbone



Step 1



Mejorando el cuidado neonatal

Strategic Team Working According to Local Needs

- Doctors
- Nurses
- Infectologists
- Microbiologist
- Respiratory Therapist

- Pharmacist
- Nutritionist
- Parents
- Administrative staff
- Dynamic group:
 Newcomers





Required Team Knowledge

- EPIQ strategy
- Local and Network information:

Indicators

Problems identified

Weaknesses

Solutions

Expected benefits and results





Who do we need in the team?

The EPIQ Team includes one person of the administrative staff to ensure permanent availability of Supplies and equipment



Hospital Medical Director/Manager





Clean hands campaign





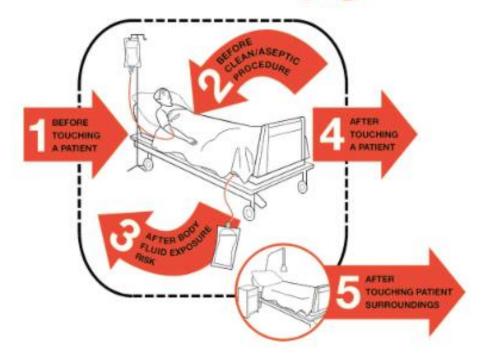
World Alliance for Patient Safety. Who Guidelines on Hand Hygiene in Healthcare (Advanced Draft): Global patient safety challenge 2005-2006: Clean care is safer care. World Health Organisation; 2005.





Clinical situations

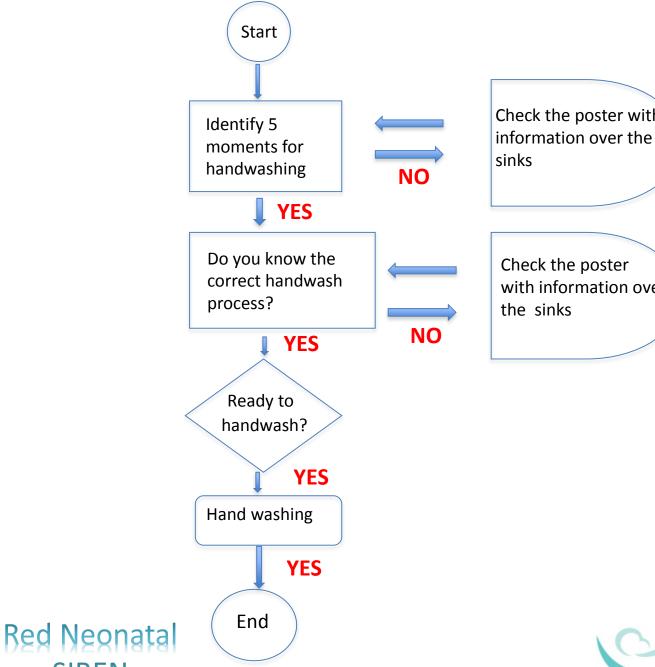
Your 5 Moments for Hand Hygiene











Step 2

Check the poster with

with information over



Step 3: Indicators: before and after the EPIQ cycle

PROCEDURE

- Percentage of workers who recognize the five moments for handwashing
- Percentage of workers who correctly follow the process of handwashing

OUTCOME

Nosocomial infection rate

OTHERS

Consumption of soap and paper towels

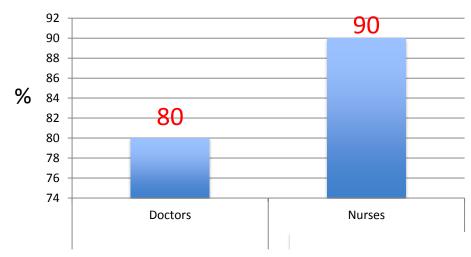




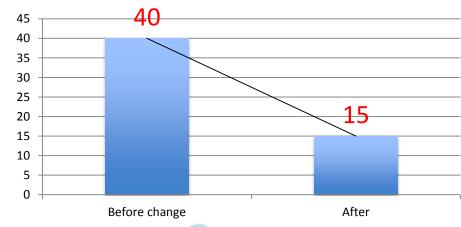
Some initial local results

%

% Handwash compliance after a 3 month cycle



% Positive Blood Culture



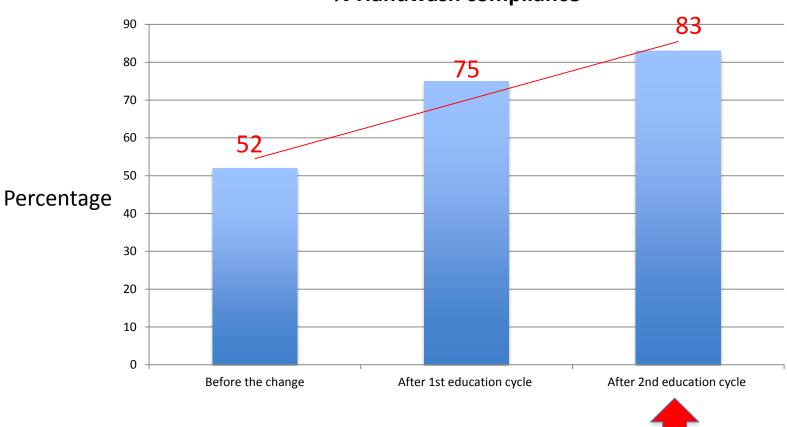
SIBEN

Mejorando el cuidado neonatal

Red Mariela Fernández. Gloria Cubillo Hospital Santisima Trinidad Paraguay.

Some initial local results





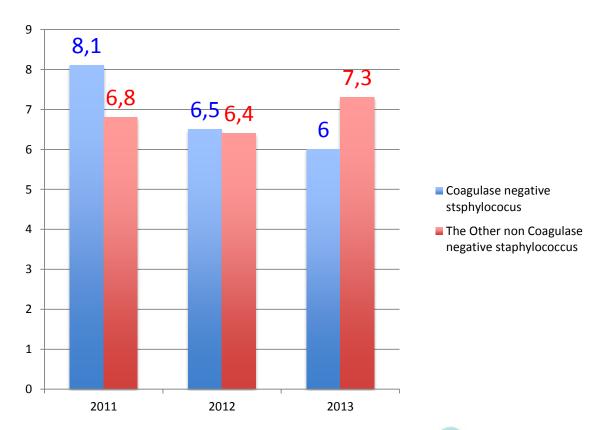
Fernando Aguinada, Tatiana Campoverde .Hospital Metropolitano. Ecuador

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Catheter-related infection in neonates < 33 weeks. SIBEN

Infection rate per 1000 days catheter



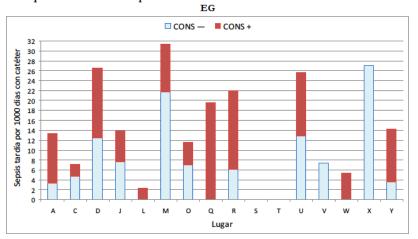


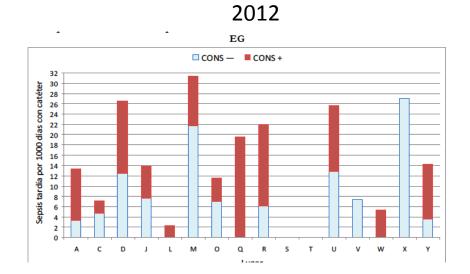


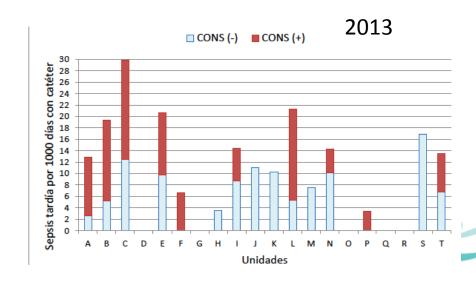
Catheter-related infection in neonates < 33 weeks. SIBEN NN

Infection rate per 1000 days for each NICU

2011 Sepsis de comienzo tardío por 1000 días de catéter central * en niños < 33 semanas de



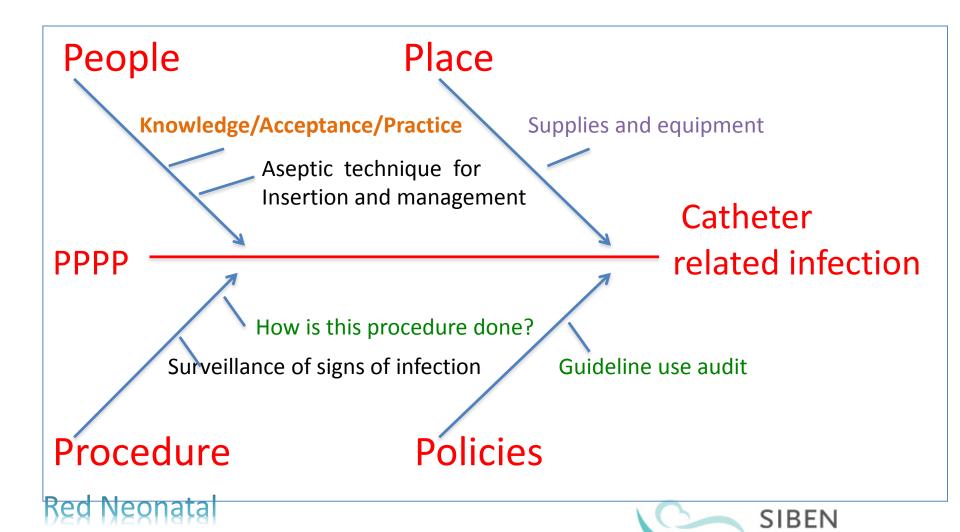




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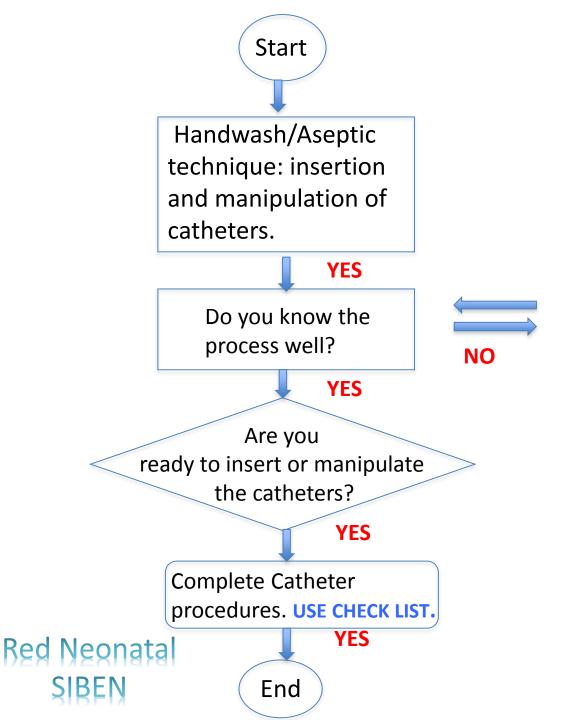


Step 1



Mejorando el cuidado neonatal





Check the guideline with information.



Some local results after the cycles

Training in catheter insertion

71/76 nurses trained = 96% ¹

% Guideline compliance for insertion and maintenance of central catheters = 85% ²

- 1. María Inés Martinini, Maternidad Nuestra Sra. De las Mercedes, Tucumán, Argentina
- 2. Maricel Mariani, Hospital de las Malvinas. Argentina







NEXT EPIQ May, 2015. Tucuman. Argentina







Thank-you







