

Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass



**INFECTION PREVENTION AND CONTROL
THE ARGENTINE EXPERIENCE**

Lic. Carolina Giuffré RECI
Infection Control Nurse
Buenos Aires British Hospital
Director National Hand Hygiene Campaign ADECI
IFIC Board Latin America
cgiuffre@hbritanico.com.ar

Hosted by Terrie B. Lee
Chair, IFIC Board

www.webbertraining.com September 16, 2014


OBJECTIVES

- Describe current situation of Argentina in relation to Health-care Associated Infections, achievement, accomplishment and future challenges.
- Describe different scenarios of health in the country and their approach to the control of HAI.
- Comment about Argentinean Infection Control Nurses Association and its activities in a country including the Hand Hygiene National Campaign, and The Certification Committee and Teaching Committee.
- Show some experiences in relation to the Hand Hygiene Improvement (national, collaborative and institutional experiences).
- Show some results in HAI rates and MDRO management.
- Next challenges

2

ARGENTINA

Describe current situation of Argentina in relation to Health-care Associated Infections, achievement, accomplishment and future challenges



Located in South America, Argentina has an area of almost 3.8 million Km².
Have 23 provinces and 1 Autonomous City.

Argentina's current population is over 40 million inhabitants, most all half live in the city and the province of Buenos Aires.



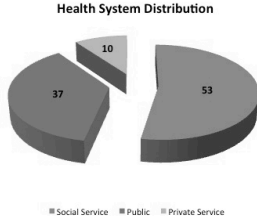
3

ARGENTINA

Argentina has more than 4000 acute general hospitals

Health care system is distributed as follow:

- Social Security 53%
- Public System: 37%
- Private System: 10%





4

HISTORY

In the 70's Dr. Stamboulia while he was in USA learns first concepts about infection control

He initiates the program in our country and trained the very first infection control nurses (ICN)

1994 The Argentina's Infection Control Nurses (ADECI) was founded.


5

CURRENT SITUATION

The National Ministry of Health has National Surveillance Program of HAI: "VIHDA Program".


Participation and report is voluntary.

Around of 150 health care facilities report their rates to the program.



In 2010 The IBEAS Study was a multicenter large-scale study.

It was about incidents and adverse events in health care system in Latin America (México, Peru, Colombia, Costa Rica and Argentina).



6

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com

Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass

The most frequent adverse event reported was Ventilator Associated Pneumonia follow by Surgical Site Infection

Figura 1.

Tipo de asistencia sanitaria	Porcentaje
Infección	~38%
Operación quirúrgica	~28%
Cuidados médicos	~15%
Medicación	~10%
Diagnóstico	~8%
Otros	~7%

WHO/ER/PSR/2010.3
© World Health Organization, 2010
http://www.who.int/patientsafety/research/ibeas_report_es.pdf

CURRENT SITUATION

Nowadays some centers of Argentina are national and regional referents in HAI.

We constantly received nurses and doctors from Argentina and abroad at our hospital in order to be trained in HAI.

Courses in infection control are available at different Universities and Private Programs.

In recent years some Universities have been associated to important hospitals with the purpose to establish many programs in HAI.

University Major Teaching hospitals (as British Hospital, German Hospital, Austral Hospital, and others) are the best example of this.

Describe different scenarios of health in the country and their approach to the control of HAI.

In the 80's private public community hospitals. } implemented programs and HAI Committees

The first Infection Control Nurses have graduated in June 2000. They were certificated by ADECI.

Although more and more centers incorporate ICN, the scenario and their results in infection rates is extremely heterogeneous.

The most developed and experienced programs were located at the big cities of the country. Most provinces are in intermediate stage of development and few others are beginning with them.

It's absolutely clear the need to implement comprehensive programs that result in the reduction of HAI.

Comment about Argentinean Infection Control Nurses Association and it's activities in a country including the Hand Hygiene National Campaign, and The Certification Committee and Teaching Committee.

ADECI was founded in 1994. We have more than 250 members and more than 40 certificated nurses.

ADECI is member of many National Committees:

- Immunization National Committee (CONAIN)
- Crisis Committee for new Influenza AH²N¹ (2009-2011)
- Adviser in National Infection Control Program "VIHDA"
- Member of Adviser National Committee for Patient Safety.

ADECI has a journal "Epidemiology and Infection Control" with guidelines, revisions, actualizations and news from specialty.

From the very beginning the prestige of our society has been growing steadily. This allow us to become a referent society in our country and region.

Comment about Argentinean Infection Control Nurses Association and it's activities in a country including the Hand Hygiene National Campaign, and The Certification Committee and Teaching Committee.

Different committees are active in ADECI

Guidelines Committee

Teaching and Research: they prepare courses for updating and strengthening of topics to assist it in the process of certification and recertification. Examples: updating in surveillance, transition from NNIS System to NHSN, how to incorporate hemodialysis events, outbreak study, literature's a critical analysis, statistics, etc.

The Certification Committee works since 2004 and prepares the exams for certification and recertification. Usually works together with Teaching Committee. They use dynamic methodology and now assess knowledge, skills and competences as specialist.

Comment about Argentinean Infection Control Nurses Association and it's activities in a country including the Hand Hygiene National Campaign, and The Certification Committee and Teaching Committee.

Annually ADECI has national and international conferences.

Last year hosted 13th IFIC International Conference together with XIII National Congress of Epidemiology, Infection Control and Patient Safety. Professionals from region are usual attendances.

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com

Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass



In 2010 our special guest was Dr. Prof. Didier Pittet.

We were convinced about necessity of develop National Hand Hygiene Campaign.




ADECI as a facilitator

In this conference 68 health care facilities registered their Institutions in WHO Hand Hygiene Campaign.

Name Of Hospital	Country	Total number of staff in your Hospital	total number of inpatient beds in hospital
HCF Staff Beds			
		68	10304

ADECI as a facilitator

Up to now are more than 65 health care facilities (HCF) registered and more than 150 HCF in process to be register.



CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

ADECI as a facilitator

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

That was our springboard for the campaign: we prepare a plan and we launched it in April 2011.

<http://www.adeci.org.ar/higiene-de-manos/index.php>

higiene-manos@adeci.org.ar

PLAN DE CAMPAÑA (primer período)

Actividad	ago-10	ago-11	ago-12	ago-13	ago-14	ago-15	ago-16	ago-17	ago-18	ago-19	ago-20	ago-21	ago-22	ago-23	ago-24	ago-25	ago-26	ago-27	ago-28	ago-29	ago-30	ago-31	ago-31	
Preparación de la Campaña	5,2,3																							
Programa OMS: 5 de Mayo	2,3																							
Contratación de medios de difusión	2,3																							
Divulgación																								
Medición adherencia																								
Medición post intervención																								
Análisis y devolución de los datos																								

WEB (Inauguración)
 Adhesión de las Instituciones a la Campaña Nacional
 Adhesión a actividad propuesta por la OMS para el 5 de mayo de 2011
 Preparación del centro (Encuesta del centro)
 Entrenamiento de los referentes institucionales y primer medición de adherencia
 Implementación de estrategias según nivel de participación y avance
 Medición post intervención
 Análisis y devolución de los datos

Hand Hygiene National Campaign



CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com


Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass

We have performed many teaching activities all over the country.

Our tools for teaching were: video conferences and meetings.



19

Meeting Cordoba Province

17 de Mayo 2012

Coordinadora: Lic. Laura Furlán

Disertante: Lic. Carolina Giuffré

Se capacitaron 15 instituciones de la Provincia de Córdoba



CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

20

Meeting Corrientes Province

24 de Agosto de 2012

Coordinadora: Lic. Emilce Ortega Maidana Programa Provincial de Prevención de Infecciones del Ministerio de Salud de la Provincia.

Disertante: Lic. Carolina Giuffré

Se capacitaron instituciones de la Provincia de Córdoba



CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

21

ADECI

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

Información general Preguntas frecuentes Recursos y guías de trabajo Registrar institución Contáctenos

The methodology that we use is based on “WHO Clean Care is Safer Care” strategies and their tools. This year we have translated WHO Save Lives, Clean Your Hands news letter in order to have a Spanish version of this document.

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

22

ADECI

CAMPAÑA NACIONAL

Each province has a responsibility to teach and share tools and news bulletins about how to improve hand hygiene adherence.

Información general Preguntas frecuentes Recursos y guías de trabajo Registrar institución Contáctenos

CABA	LIC. Mariela Gonzalez	NEUQUEN	LIC. Elvia Tilleria
CATAMARCA	LIC. Marta Velez	RIO NEGRO	LIC. Leonor Rottemberg y Lucrecia Diaz
CHACO	LIC. Gladys Sanchez	SALTA	LIC. Nelly Guerrero
CHUBUT	LIC. Miriam Reyes	SAN JUAN	LIC. Maria Elena Garepia
CORDOBA	LIC. Maria Laura Furlán	SAN LUIS	LIC. Gisela Wohnning
CORRIENTES	LIC. Emilce Ortega Maidana	SANTA CRUZ	LIC. Maria Ester Betancoud
FORMOSA	LIC. Mirta Cuenca	SANTA FE	LIC. Marta Truscello
JUJUY	LIC. Victoria Rosana Centeno	SANTIAGO DEL ESTERO	LIC. Marcela Sauli
LA PAMPA	LIC. Rosa Rosas de Guidi	TUCUMAN	LIC. Adriana Corti
MENDOZA	LIC. Maria Laura Vernazzi		
MISSIONES	LIC. Norma Cabral		

23

ADECI

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

Información general Preguntas frecuentes Recursos y guías de trabajo Registrar institución Contáctenos

<http://www.adeci.org.ar/higiene-de-manos/index.php>

higiene-manos@adeci.org.ar

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

24

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com

Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass

World Health Organization

Hand statistics Media centre Publications Countries Programmes and projects

Search

Clean Care is Safer Care

Countries or areas running hand hygiene campaigns

Countries or areas from all over the world have been running their own hand hygiene campaigns. These are listed below (in alphabetical order), with links to their campaign website where available.

Argentina

Asociación Argentina de Enfermeros en Control de Infecciones C3
 The National Advisory Committee for Patient Safety was created in 2007, within the jurisdiction of the Ministry of Health, to advise the Ministry and the Federal Health Council on actions to be developed, to improve patient safety. As part of the functions of this committee, multiple actions are taking place, including the sponsorship of the campaign to improve the number of registrations to hand hygiene in Argentina, promoted by the Argentinean Association of Infection Control Nurses (ADECI).

CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

Copyright © 2011 CAMPAÑA HIGIENE DE MANOS. Todos los derechos reservados. 25

Show some experiences in relation to the Hand Hygiene Improvement (national, collaborative and Institutional experiences).

We have worked on several and simultaneous paths made in the HH Improvement Project. The Institutions that applied multimodal strategies improved their adherence hand hygiene rates.

At our hospital: in 2009 we assess hand hygiene adherence with WHO methodology in the Adult Intensive Care Unit.

Basal rate was: 46.5%. After three months of intervention our adherence rate was: 67%.

One year after that: 77.6%.

26

IECS

ADECI

In 2011 ADECI and IECS (Institute of Quality in Argentina) apply a grant in WHO and performed a multicenter trial with 11 Intensive Care Units from Bs. As.

“Clinician trial to evaluate the effectiveness of a multimodal intervention to improved hand hygiene adherence in critical care units of Argentina”.

27

Resultados de la intervención Bs As

Intervention Effect	OR (95% CI)	P value
Intervention effect	1.18 (1.14 - 1.22)	<0.0001
Second month after intervention vs. control	1.07 (1.01 - 1.14)	0,0463
Third and fourth month after intervention vs. control	1.16 (1.11 - 1.22)	<0.0001
Fifth and more month after intervention vs. Control	1.21 (1.16 - 1.25)	<0.0001

28

In our hospital our adherence rates improved to 95 %.

29

After that we validated this model in Corrientes province in 9 public Adults ICU. HH Adherence rates pre and post intervention were: 58 and 81% respectively (p= 0, 0001).

Hand Hygiene Adherence Corrientes

30

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com

Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina


A Webber Training Teleclass

At National Level:

First National Hand Hygiene adherence rate: 68.2%.

After this surveillance we implemented WHO multimodal intervention.

We are in process to analyze HHA rates post intervention.



CAMPAÑA NACIONAL PARA LA MEJORA DE LA HIGIENE DE MANOS

Copyright © 2011 CAMPAÑA HIGIENE DE MANOS. Todos los derechos reservados. 31

Show some results in HAI rates and MDRO management.

Some health care facilities have three integrated programs:

- HAI prevention and control
- Antibiotic stewardship
- Multidrug resistant organism surveillance.



Our hospital is a university, acute, high complexity, general hospital.


The ID Department has 10 doctors (5 attending and 5 residents) and 2 certified ICN.






We use NHSN methodology for MDRO surveillance.

In our hospital in the last decade we have integrated these programs.

32



In 2010 we established control process for prevent VAP/PNEU; BACT/CVC and UTI/UC.

33

Results: After three years of intervention

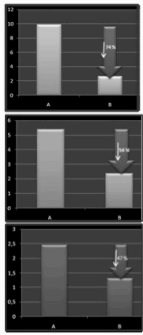
Hospital –Acquired Infections Rates

VAP from 9.88 ‰ to 2.60 ‰, IRR 0.26, 74% rate reduction. P <0.001.
Attributable risk: 7.28/1000 DD.
Avoided cases in Pb: 33.4 (4589 DD in three years)

BACT from 5.35 ‰ to 2.34 ‰, IRR: 0.44, 56% rate reduction. p 0.007.
Attributable risk: 3.01/ 1000 DD.
Avoided cases in Pb: 14.99 (4983 DD in 32 months)

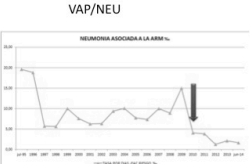
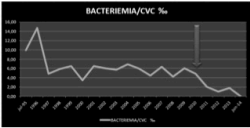
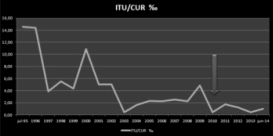
UTI from 2.45 ‰ to 1.30 ‰, IRR: 0.53, 47% rate reduction. P 0.32
Attributable risk: 1.15/1000 DD.
Avoided cases in Pb: 3.34 (2908 DD in 16 months).

Adherence to PC and HHA ranged between 80 and 95%.



34


After four years the decrease of our rates and MDRO hospital acquisition has been sustained.

35

Next challenges

- To increment teaching centers or universities for infection control professionals all on the country.
- Increase the number of certificated professionals.
- Increase facilities with commitment for improve hand hygiene adherence.
- Help to implement models that have been validated to be effective in decreasing HAI rates.
- Influence governments to provide the necessary tools for the implementation of these programs.



36

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com


Infection Prevention and Control – The Argentine Experience

Carolina Giuffré, Buenos Aires British Hospital, Argentina

A Webber Training Teleclass

Next challenges

Finally, achieve that each and every institution in Argentina have an active program that works efficiently



THANK YOU
37

Coming Soon

September 18 **HEALTH ECONOMIC EVALUATION OF AN INFECTION PREVENTION AND CONTROL PROGRAM**
Dr. Elizabeth Bryce, Vancouver Hospital

September 29 (Free Teleclass ... Broadcast Live from IPS Conference)
THE TIMES THEY ARE A CHANGING
Dr. Evonne Curran, Health Protection Scotland

October 1 (Free Teleclass ... Broadcast Live from IPS Conference)
INFECTION CONTROL IN THE 21ST CENTURY
Dr. Stephanie Dancer, NHS Lancashire

October 2 **INFECTION PREVENTION & CONTROL IN CYSTIC FIBROSIS**
Prof. Lisa Saiman, Columbia University Medical Center, New York

October 8 (Free WHO Teleclass – North America)
PUBLIC REPORTING AND DISCLOSURE OF HAI RATES: POSITIVE IMPACT OR CONFUSION?

www.webbertraining.com/schedulepl.php

Thanks to Teleclass Education
PATRON SPONSORS



www.virox.com



www.who.int/gpsc/en

Hosted by Terrie Lee, International Federation of Infection Control
www.webbertraining.com