

#### Pan American Health Organization



Regional Office of the **World Health Organization** 

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Healthy Hospitals Project: International Collaboration to Protect Healthcare Workers from Infectious Disease Transmission

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#### The Healthy Hospitals Project: Protecting Healthcare Workers and Patients from Infectious Diseases



PROVINCIAL INFECTION CONTROL NETWORK OF BRITISH COLUMBIA

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1- University of British Columbia; 2- Pan-American Health Organization – Washington; 3- PAHO– Quito 4- Vancouver General Hospital; 5- Ministry of Public Health of Ecuador; 6- Hospital Baca Ortiz – Quito

#### Background

- 1.4 million people worldwide experience nosocomial infections<sup>1</sup>
- Healthcare workers at increased risk of exposure to:
  - Blood-borne diseases<sup>2,3,4</sup>
  - Airborne diseases<sup>5, 6</sup>

<sup>1</sup>Pittet & Donaldson 2006; <sup>2</sup>Romea et al. 1995; <sup>3</sup>Ciorlia & Zanetta 2005 <sup>4</sup> Pruss-Ustun et al. 2003; <sup>5</sup>Menzies et al. 2007; <sup>6</sup>Kilinc et al. 2002;;





#### % of Infections in Healthcare Workers due to Contaminated Sharps

	HCV	HBV	HIV
Amr A	8%	1%	0.5%
Amr B	55%	83%	11%
Amr D	52%	65%	7%

Amr A: Canada, Cuba, USA
 Amr B: Argentina, Brazil, Chile, Colombia, Costa Rica, El Salvador, Guyana,
 Honduras, México, Panama, Paraguay, Uruguay, Venezuela & Caribbean countries
 Amr D: Bolivia, Ecuador, Guatemala, Haití, Nicaragua, Perú

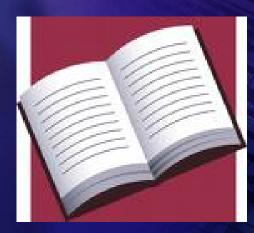


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Pruss- Ustun et al. 2003



# "It is time to close the book on infectious diseases "



#### W.H. Stewart, USA Surgeon General, 1967





# **Ecuador: Healthy Hospitals Project**

#### **Objectives**

- 1) To strengthen and/or implement OHS;
- 2) To assess occupational hazards (focus on infectious diseases);
- 3) To build human capacity for preventing, and/or controlling, occupational risks;
- 4) To foster international collaboration for promoting and protecting health care workers' health.





# Evaluation of Occupational Hazards

#### Instruments

- Audit tool on occupational health and infection control

   Adapted to each setting (11 units, 3 hospitals)
- Surveys on knowledge, practices and attitudes

   Participants: diverse sample of health personnel



Phase 1

#### **Audit Results: Good Practices**







#### **Audit Results: Challenges**



Recapping needles

Isolation Room

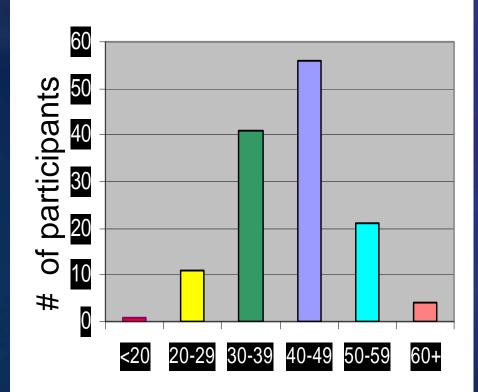
Phase 1

# Knowledge, Attitudes and Practices Survey





### **Survey results Demographic Characteristics Age and Gender**



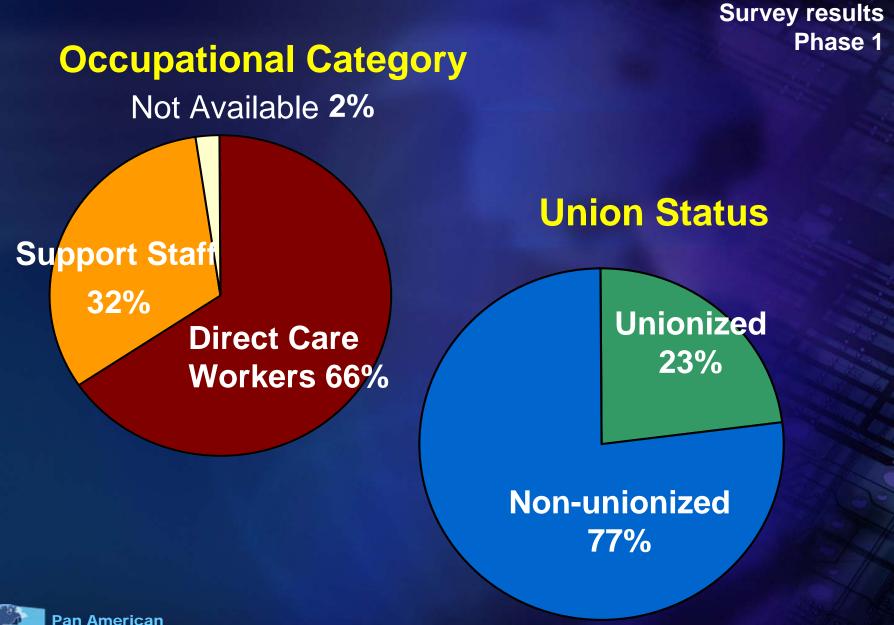


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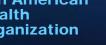




Phase 1







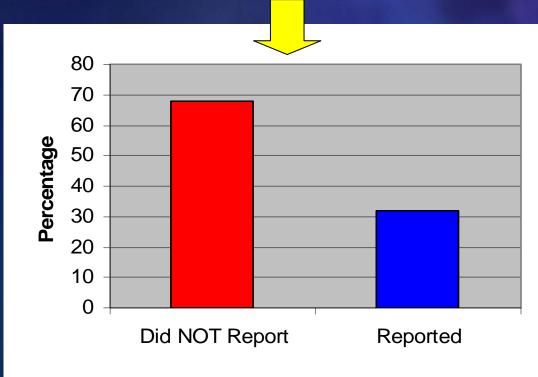


**Survey results** 

Phase 1

# Have you suffered from an injury at work in the last 2 years?

50% Answered "Yes"







**Preliminary survey results** 

Phase 1

# Did you receive an OHS Evaluation upon your hiring?

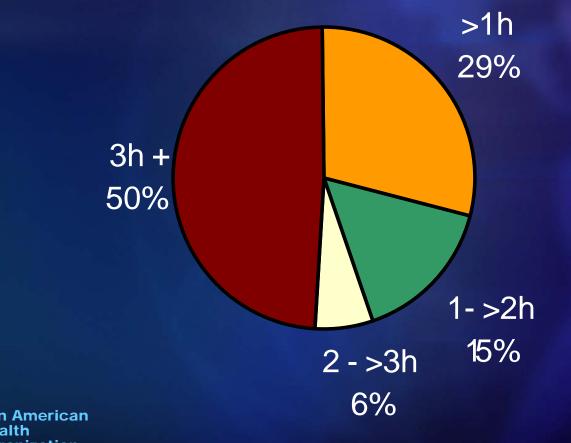




77%



**Preliminary survey results** Phase 1 How many hours of OHS training did you receive?









Phase 2

# Phase 2: Training Workshop

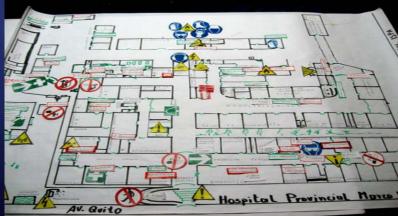
#### Format

- Problem-based learning
  - Case-studies
  - Risk map exercise
  - Design of hospital-based projects

#### - Presentations

- Universal precautions/Hierarchy of hazard controls
- Blood-borne and airborne diseases: prevention and control measures
- Risk assessment
- Surveillance
- Logical Framework





# Phase 3: Implementation of hospital-based projects

- Awareness campaigns

   Needlestick injuries
   Hand washing
- Training workshop
- Hospital-based micro-projects
  - Hepatitis B immunization program
  - Infection control program







#### **Future Actions**

- Continue to strengthen OHS committees
- Scale to other healthcare facilities
- Partner with academic institutions
- Built capacity on research methodology and program evaluation
- Development of OHS policies
- Integrate other occupational hazards



Pan American Health Organization LA GESTION DE LA SALUD Y SEGURIDAD EN EL TRABAJO ASEGURA EMPLEADOS SALUDABLES, MOTIVADOS, Y MEJORA LA CALIDAD DE LOS SERVICIOS PRESTADOS

HOSPITALES SALUDABLES

LOS TRABAJADORES DEL SECTOR SALUD ESTAN EXPUESTOS A RIESGOS LABORALES QUE AFECTAN SU SALUD

Biológicos • Químicos • Ambientales

Psicosociales • Ergonómicos • Físicos



PROYECTO: "FORTALECIMIENTO DE LA GESTIÓN DE SALUD Y SEGURIDAD OCUPACIONALES EN LOS HOSPITALES DEL ECUADOR"

RESULTADOS:

ELABORAR MAPAS DE RIESGO OCUPACIONALES
 FORTALECER LOS COMITES DE SALUD Y SEGURIDAD
 PROMOVER CAPACIDADES DE LAS PERSONAS PARA
 PREVENIR Y CONTROLAR LOS PROBLEMAS DE SALUD
 RELACIONADOS CON EL AMBIENTE HOSPITALARIO

# Thank you!





