





REGIONAL OFFICE FOR THE Americas

Webminar

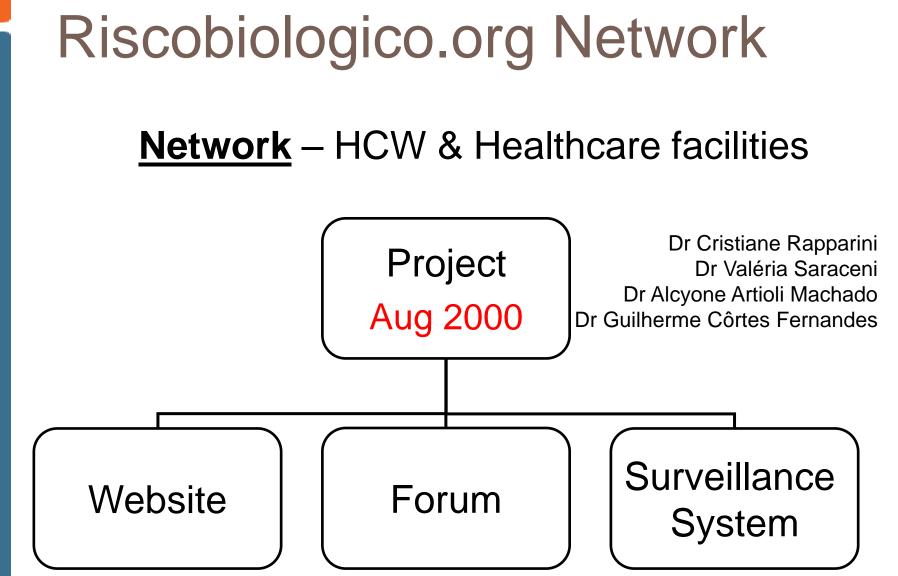
- Recommendations:
- Please turn off your microphone.
- There will be 40 minutes of presentation and 1 hour of questions and answers.
- Questions should be in writing, through the Chat or by email to: Infectioncontrol@paho.org
- The presentation will be available on the PAHO website in 48 hours.

Occupational exposures to bloodborne pathogens among Healthcare Workers

risco biologico.org



Dr Cristiane Rapparini March 2017



Disclosure

(CFM nº1.595/00 18/5/2000; ANVISA nº120/2000 30/11/2000)

Riscobiologico.org Project

Lectures in meetings organized from several different companies (BD, BBraun, Biodina, AstraZeneca, etc.). Educational Grants from BD.

The inclusion of photos of products from different companies in this presentation does not mean that they are endorsed by the Riscobiologico.org Project. The purpose is only educational, to show examples of products available in the market.

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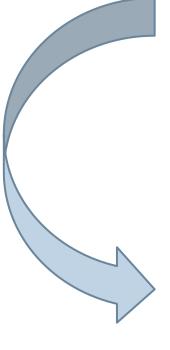


PATIENTS

HEALTHCARE WORKERS

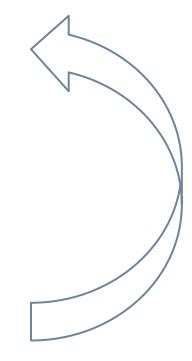


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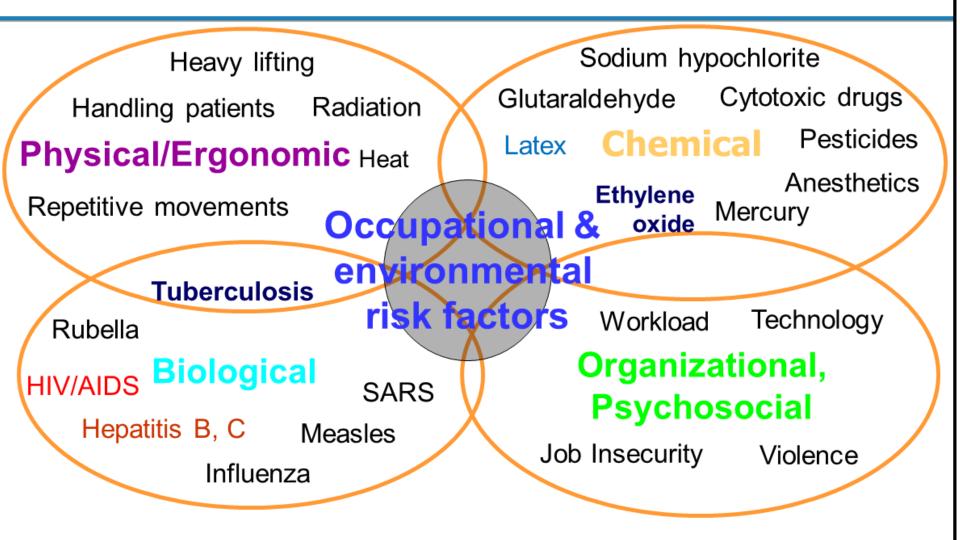


PATIENTS

HEALTHCARE WORKERS



Hazards to health care workers



Susan Wilburn – Presented in Rio de Janeiro, October 2010.



HIV HEPATITIS B Bloodborne transmission HEPATITIS C

(Total of 60 pathogens or species)

Published case reports were found for a total of 60 pathogens or species: 26 viruses, 18 bacteria/rickettsia, 13 parasites, and 3 yeasts.

Tarantola, AJIC 34(6): 367-75, 2006.

Burden of disease

Number of health-care workers at risk
Prevalence of HBV, HCV and HIV among patients and the general population
Annual incidence of sharps injuries
Risk of transmission
Use of postexposure phophylaxis

Worldwide, it was estimated that more than <u>three million</u> health-care workers will be exposed to a sharp object contaminated with HCV, HBV or HIV <u>every year</u>.

2,000,000 exposed to HBV, 900,000 to HCV, 300,000 to HIV

World Health Organization, 2002 Prüss-Üstün et al., 2003 Wilburn e Eijkemans, 2004

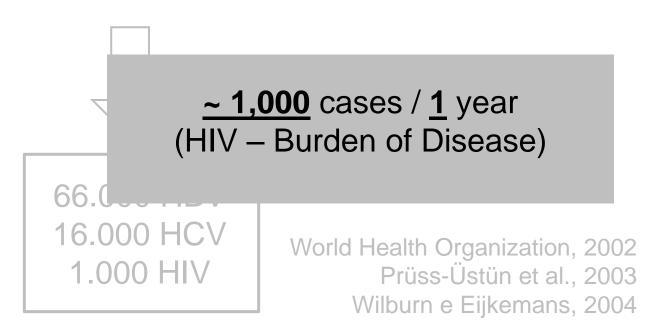
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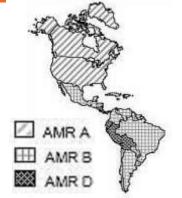
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Sharps-associated infections in health-care workers – Amr B

HIV (1,000) HBV(66,000) HCV (16,000)

	()/	(
HCW exposed to at least one percutaneous injury with a sharp object contaminated (4 with HBV, HCV and HIV	23,000 ,100–109,000)	61,000 (22,000–99,000)	57,000 (20,000–93,000)
Proportion of exposed	1.5	4.0	3.7
HCW per year (%)	(0.3–7.1)	(1.4–6.5)	(1.3–6.1)
Number of infections among HCW attributable to sharps injuries	70	6 000	1 000
	(13–360)	(1 800–25 100)	(360–5 500)

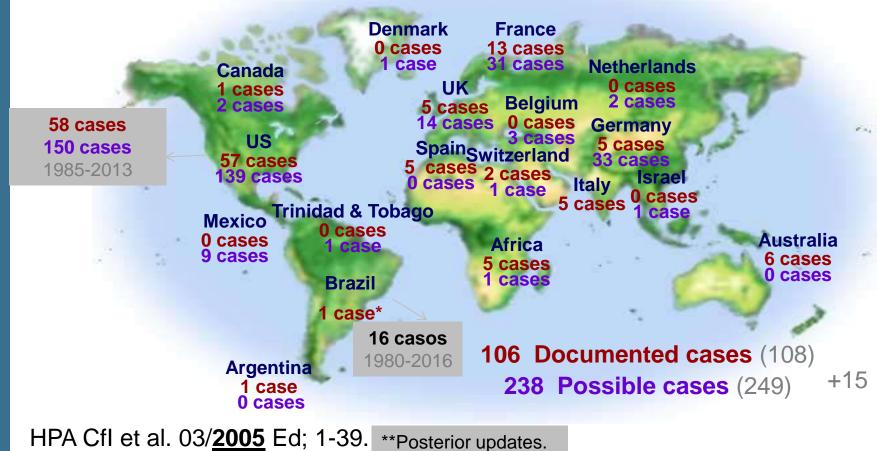
() Lower and upper estimates

Amr B Region - Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Brazil, Chile, Colombia, Costa Rica, Dominica, Dominican Republic, El Salvador, Grenada, Guyana, Honduras, Jamaica, Mexico, Panama, Paraguay, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, Venezuela.

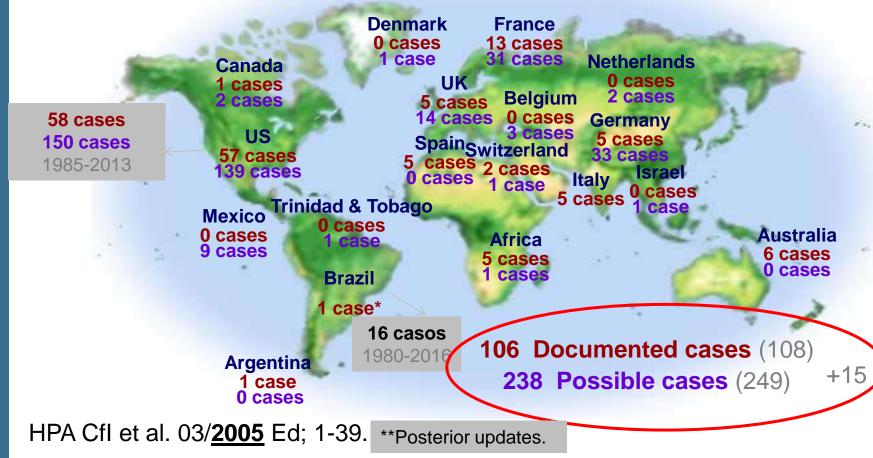
Prüss-Üstün, A et al. WHO 2003.

Surveillance Systems & Case reports

Summary of Published Reports. National or regional systems for the surveillance of occupationally acquired HIV infection have been developed in most of the countries mentioned in this map. Early case descriptions appeared in mainstream journals but newly recognised cases are now likely to be included in aggregate data in routine surveillance output from national or regional surveillance centres.



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HPA Cfl et al. 03/2005 Ed; 1-39. **Posterior updates.

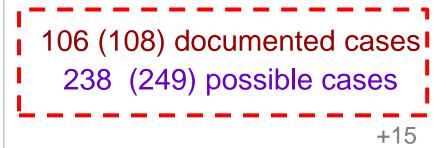
WHO (2000)

1,000 HIV / year

Burden of Disease Number of HCW at risk Prevalence of HBV, HCV and HIV Annual incidence of sharps injuries Risk of transmission Use of postexposure phophylaxis

> World Health Organization, 2002 Prüss-Üstün et al., 2003 Wilburn e Eijkemans, 2004

Surveillance System

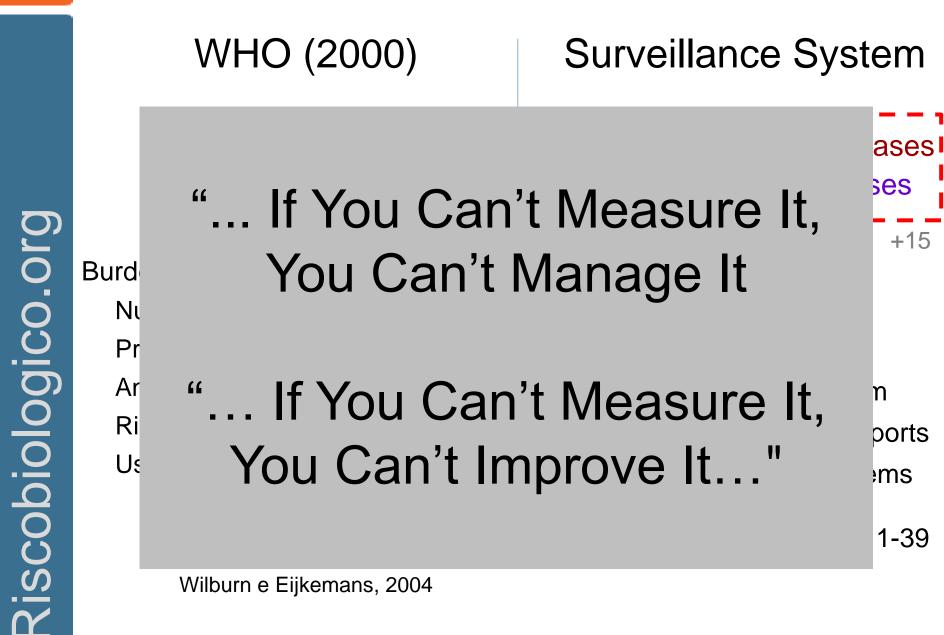


In 30 years !!

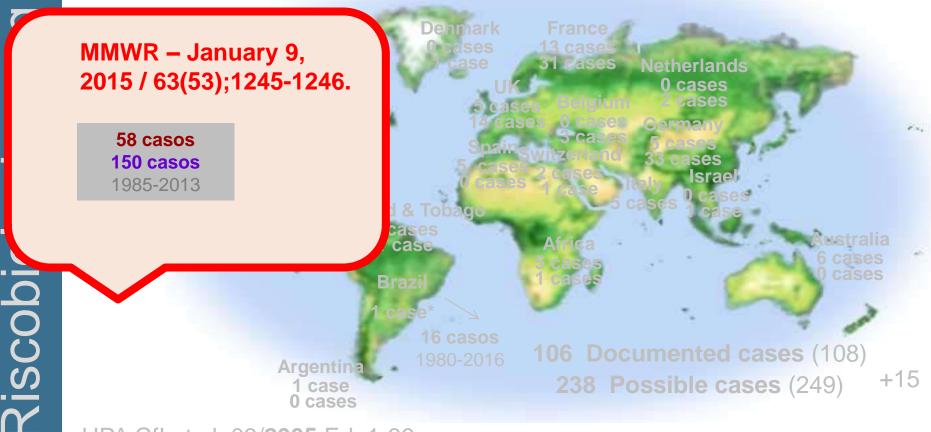
Surveillance System Summary of Published Reports National or regional systems

HPA Cfl et al. 03/2005 Ed; 1-39

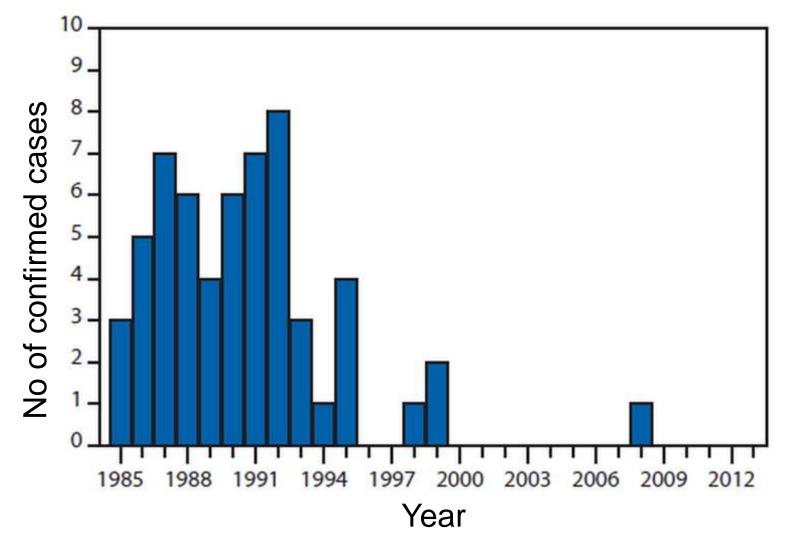


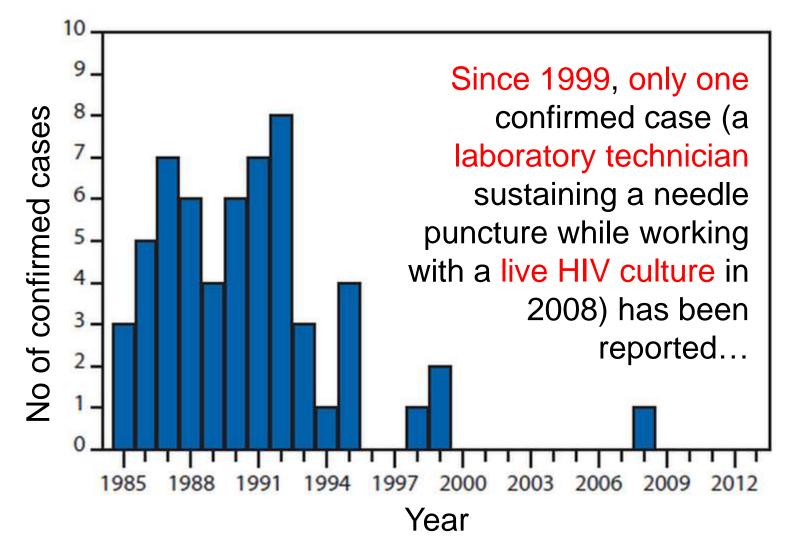


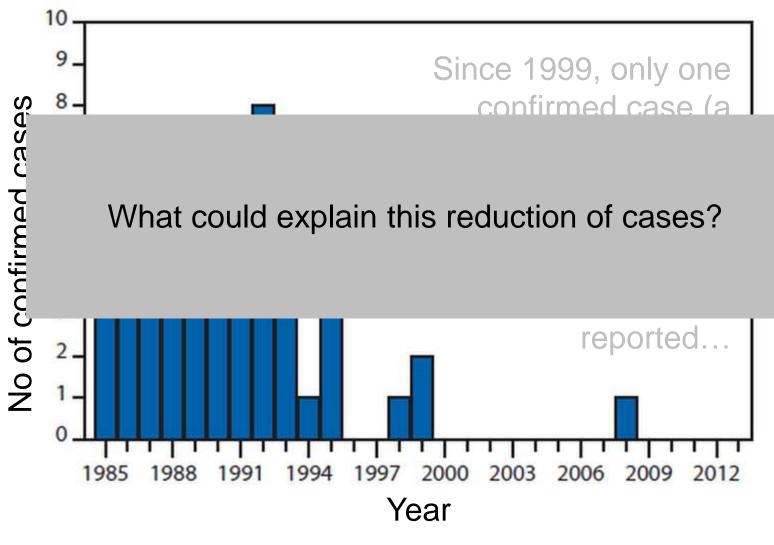
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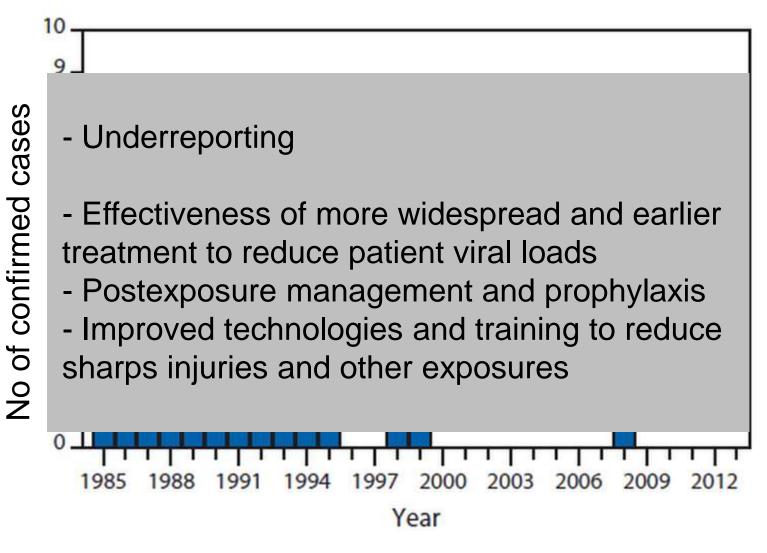


HPA Cfl et al. 03/2005 Ed; 1-39. **Posterior updates.









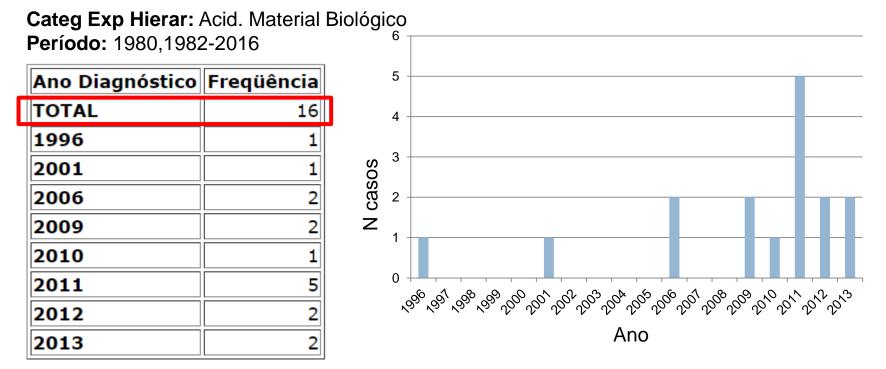
Riscobiologico.org

Brazil

HIV Ocupacional

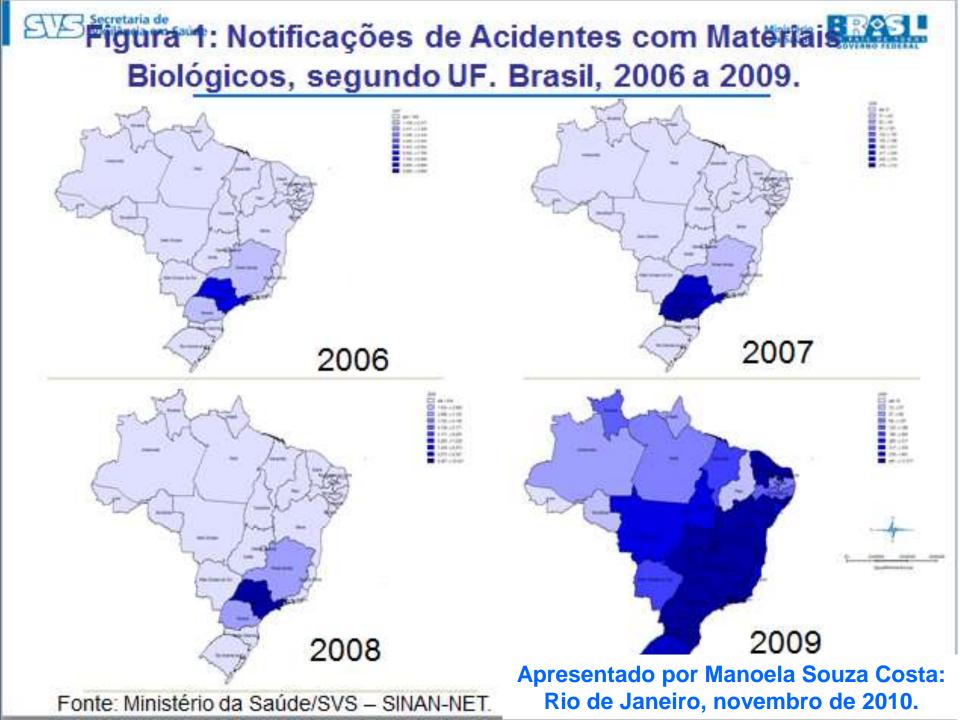


Freqüência segundo Ano Diagnóstico

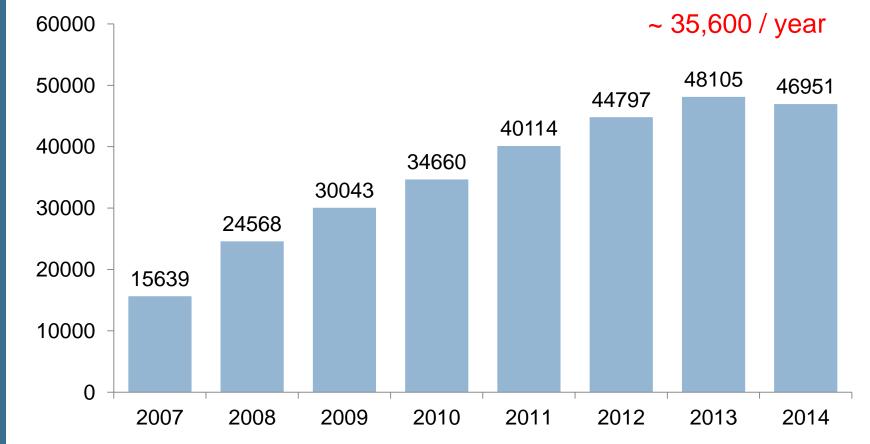


Dados consolidados até 30/06/2016.

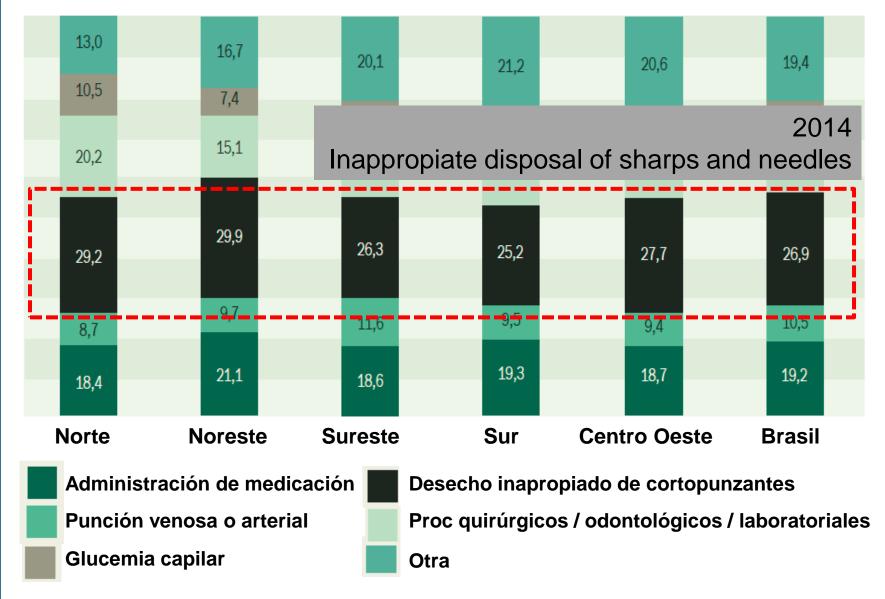
SINAN - Sistema de Informação de Agravos de Notificação Acessado em 09/03/2017.



Exposures to BBP among HCW / year of occurence Brazil – 2007-2014 (N = 284,877)



Preliminary data – subject to change. MS. Sinan, 2016. Miranda FMA, 2016. 2007 – 2014 - Total = 284,877 accidents Distribución de los accidentes de trabajo con material biológico, según las circunstancias de ocurrencia, **por regiones y total**, Brasil 2014.



Fuente: MS. Sinan. DIEESE. Anuário da Saúde do Trabalhador, 2015.

Brazil

Occupationally Acquired HIV Infection Among Health Care Workers

Occupationally Acquired HIV Infection

- Female, nursing aide
- Exposure 10/14/94 venous catheter
- Source patient AIDS diagnosis
- 10/17/94 = ELISA neg
- Nov/94 = fever + lymphadenopathy
- 29/12/94 = 2nd ELISA neg
- 04/11/95 = ELISA +, W.Blot +

Del Bianco, R. 2001. Seabra-Santos NJ et al. Braz J Infect Dis 2002;6(3):140-1.

Occupationally Acquired HIV Infection

Rio de Janeiro, female, nursing technician Percutaneous exposure, Winged steel needle, Jan 1996 Source patient - AIDS, previous undiagnosed

Purpose or procedure for which sharp item was used or intended: To insert a peripheral intravenous line

Rapparini et al - 1996. Rapparini, C. Am J Infec Control 2006;34:237-40.

Occupationally Acquired HIV Infection

Rio de Janeiro, female, nursing technician Percutaneous exposure, Winged steel needle, Jan 1996 Source patient - AIDS, previous undiagnosed

Purpose or procedure for which sharp item was used or intended: To insert a peripheral intravenous line

□ After the procedure, passing used device

Rapparini et al - 1996. Rapparini, C. Am J Infec Control 2006;34:237-40. Florianópolis - Santa Catarina Male, nursing aide, 37 year-old Percutaneous exposure, IV catheter stylet, 06/06/98 Neurotraumatology ward – Source patient HIV+

After the procedure, during device fixation by stylet left on tray

Simultaneous co-infection with HIV and HCV following an occupational exposure.

Araujo VC et al - ABIH 2000. Rapparini, C. Am J Infec Control 2006;34:237-40

Occupationally Acquired HIV Infection

Percutaneous exposure - December 2007 Nursing aide, female, 42 year-old Thumb injury, slight bleeding that was immediately washed While performing a Capillary Blood Glucose (CBG) testing The lancet had not been completely enclosed and was left on the table after the procedure The HCW wore a latex glove during the procedure

PEP HIV (ZDV + 3TC + LPV/r) was initiated within the first 2 hours and maintained for 28 days EIA neg jan/mar/may 2008, pos in June 2008

Source patient - AIDS, CD4 11 cels/mm³, not receiving any antiretroviral treatment, pulmonary TB The patient had a history of neglect or irregular use of antiretroviral drugs (EFV, ZDV, 3TC)

Brum MCB et al. American Journal of Infection Control 41(5), 471-472.

Occupationally Acquired HIV+HCV Infection

- 27 year-old, female, <u>laboratory techinician</u>, percutaneous exposure 01/12/2013, IV catheter – 20-gauge needle
- IV access souce patient AIDS
- Source patient: homeless female, on irregular use of ZDV+3TC +LPV/r. She had been prescribed different regimens including NRTI, NNRTI and PI, since 2011, VL 4.56 log10, CD4 143 cel/ml. She was HCV coinfected (VL 5.9 log10).

Lopez GIS et al. AIDS 2015; 29(12):1580-3. Boletín Epidemiológico - CRT SIDA/ETS - CVE - AÑO XXXI - Nº1 - 2014

- HCW: PPE ZDV + 3TC + LPV/r within 1 h of the accident. The regimen was prescribed for 28 days, but she did not return to follow up.
- Three months after the accident, the HCW presented at an emergency unit with weakness, vomiting and ictericia, with high transaminases compatible to <u>acute HCV</u>. Anti-HCV+, VL 6.43 log10, <u>anti-HIV+</u>, 1031 CD4 cels/ml, VL 3.9 log10.

Lopez GIS et al. AIDS 2015; 29(12):1580-3. Boletín Epidemiológico - CRT SIDA/ETS - CVE - AÑO XXXI - Nº1 - 2014 Occupationally Acquired HIV+HCV Infection

HCW: The patient was treated for hepatitis C and an antiretroviral regimen was subsequently instituted.

At the last follow-up evaluation, the patient had undetectable viraemia to both HCV and HIV.

Lopez GIS et al. AIDS 2015; 29(12):1580-3. Boletín Epidemiológico - CRT SIDA/ETS - CVE - AÑO XXXI - Nº1 - 2014

Brazil

Examples – Occupationally Acquired HBV+HCV Infection

Rio de Janeiro, Brazil

1 CASE - HEPATITIS B Jan/98 - RS, 26 year-old, fem, housekeeper, inappropriate disposal of sharp - sharp in trash, unknown source patient, initiated PEP for HIV, no information about vaccination against HBV

1 CASE CO-INFECCION - HEPATITIS B & C mar/98 - AAC, 22 year-old, fem, housekeeper, inappropriate disposal of sharp - sharp in trash, unknown source patient, no PEP for HIV, not vaccinated against HBV

SMSDC-RJ/SUBPAV /SAP/CLCPE/GSAIDS Jan 1997 – Dec 2012 - Total = 32,796 accidents

Acute HCV Infection

- SÃO JOSÉ DO RIO PRETO SÃO PAULO, Brazil
- ESF, 43 year-old, male, maried, nursing aide ICU
- Source Patient chronic liver disease/cirrhosis related to HCV (Child-Pugh C), ascites and renal failure

→ Percutaneous exposure, hollow-bore needle left in bed.

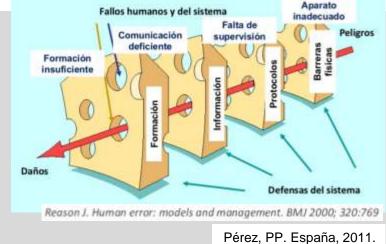
HCW suffered the needlestick while the patient was given a bath in bed.

Jorge LS et al. ABIH 2006 (Abstract 737).

Multi-causality in nursing work accidents with biological material

Contributing Factors

Insufficient number of workers Work overload Daño Fatigue Physical and emotional exhaustion Poor technical training Assistance in continuous shifts and at night shifts Lack of attention Overconfidence Inadequate equipment Stress Non-adoption of standard precautions



Soares LG et al. Rev Bras Enferm. 2013 nov-dez; 66(6): 854-9.

Plan de Prevención de Riesgos de Accidentes con Punzocortantes Decreto MTE n. 1.748, del 30 de agosto de 2011

Designing, Implementing and Evaluating a Sharps Injury Prevention Program

Continuous quality improvement

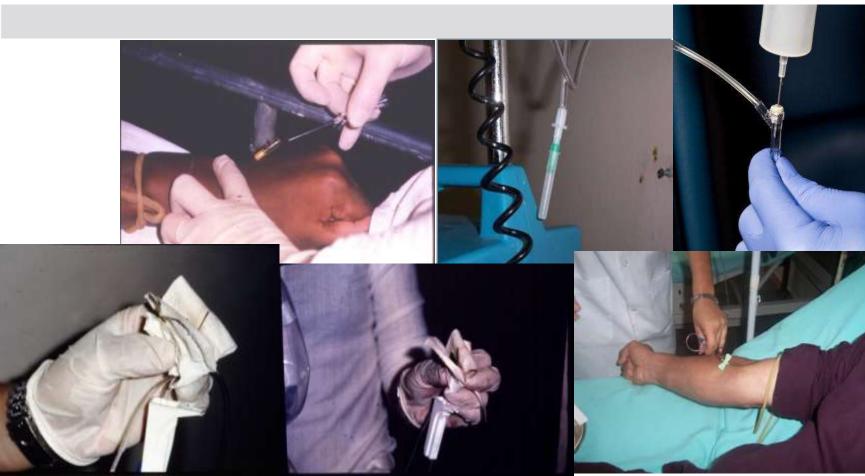
Integrated into existing programs

Determine Intervention Priorities Develop and Implement Action Plans

I.V. ACCESS (venous, arterial):

Riscobiologico.org

While inserting needle in patient While inserting/manipulating needle in line While withdrawing needle from patient While withdrawing needle from line



DISPOSAL:

In transit to disposal Placing sharp in container - Injured by sharp being disposed Placing sharp in container - Injured by sharp already in container While manipulating container Over-filled sharps container / Punctured sharps container Identify the location of the sharps disposal container; place it as close to the point-of-use as appropriate for immediate disposal of the sharp.

DISPOSAL:

Avoid bringing the hands close to the opening of a sharps container; never place hands or fingers into a container to facilitate disposal of a device. Use a mechanical device to pick up the sharp if it cannot be performed safely by hand.

In transit to disposal

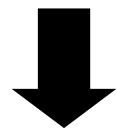
Placing sharp in container - Injured by sharp being disposed Placing sharp in container - Injured by sharp already in container While manipulating container

Over-filled sharps container / Punctured sharps container

Is it necessary to change the size or shape of sharps containers? More frequent removals and a new container obtained?

Data

➡ Information ➡ Decision



Action

Power in Numbers – Using EPINet Data to Promote Protective Policies for HCW

DATA

The single most important tool for promoting change.





Jagger J & Perry J. Journal of Infusion Nursing 25 (6S), S15-S20, 2002. Power in Numbers – Using EPINet Data to Promote Protective Policies for HCW

In 1992, EPINet data showed that needles used to connect IV lines or access IV ports were responsible for a large proportion of needlestick injuries.





Jagger J & Perry J. Journal of Infusion Nursing 25 (6S), S15-S20, 2002.

Needleless IV systems, recommended by the FDA (1992)

Food and Drug Administration (FDA). (1992). FDA safety alert: Needlestick and other risks from hypodermic needles on secondary I.V. administration sets – piggyback and intermittent I.V. Rockville, MD: FDA.

The FDA was very responsive and sent out the requested safety **alert in only 6 weeks**.

Inyectores laterales, terapia IV intermitente, etc.



Red Latinoamericana de Bioseguridad en Servicios de Salud (Febrero 2015)



Colombia:

- Alba Cecilia Garzón, Auditoría y Consultoría en Garantía de Calidad Ltda.
- Martha Luz Bernal, Avenir Ltda, Bioseguridad y Salud Ocupacional
- Consuelo Granja, Universidad Javeriana
- •Beatriz Carvallo, Comité Permanente en Salud Ocupacional
- •Zulma García, Ex Presidente de COPERSO Panamá:
- Argelis Olmedo, Gerente de Control de infecciones y seguridad del paciente, Hospital Punta Pacífica. México
- Florencia Cabrera Ponce, Presidente de Asociación Mexicana para el Estudio de las Infecciones Nosocomiales AMEIN
- Roxana Trejo, Secretaria General de Asociación Mexicana para el Estudio de las Infecciones Nosocomiales AMEIN, Hospital ABC
- Martha Huertas, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
- Raúl Sánchez Román, Instituto Mexicano del Seguro Social IMSS
- •Elia Enríquez, Federación Nacional de Salud en el Trabajo FeNaSTAC



Mazón L & Rapparini C, Octubre 2016.





España –@NTAB – Consejería de Sanidad y Consumo -Comunidad de Madrid

- EE.UU. EPINet International Safety Center
- EE.UU. CDC National Healthcare Safety Network
- **EE.UU.** Massachusetts Sharps Injury Surveillance System Massachusetts Department of Public Health
- Brasil. PSBio Riscobiologico.org Network



REDLATAMBIOS

Registro de Accidente de Trabajo con Patógeno de Transmisión Sanguínea

Mazón L & Rapparini C, Octubre 2016.

THE HUMAN FACE

OF THE NUMBERS...

Workplace Accidents and Their Consequences

Estimated risks for infection
 Social and psychological impact

 Medical costs
 Personal costs
 Legal liability

Post-traumatic stress disorder (PTSD)

Nurse technician São Paulo, Brazil Exposure to a Source Patient HIV+

Suicide

Oliveira M, 2002.

One night ...

October 18, 1997

One needle ...

Advances in Exposure Prevention

Vol. 4. MD 3 1999

Published by the International Health Care Worker Safety Center at the Internation of Vogen

White sales are funding since organic roles of a motivative partice

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One Unnecessary Needle = HIV + HCV

By Lina M. Black, R.N., B.S.N.



So many lives changed Lisa Black – Presentación – Univ Virginia – Nov 2011

Life after an HIV/HCV Diagnosis





Lisa Black – Presentación – Univ Virginia – Nov 2011

Occupational HIV + HCV Lisa Black

"Dying in 10 years" x "Become

part of the solution"

Occupational HIV + HCV Lisa Black

"Was a specific law really necessary? Why?

Yes, a specific law was needed. "FDA had issued a needlestick prevention alert five years prior to my injury, and the facility at which I was employed failed to heed this recommendation to eliminate using needles to access IV lines after initial insertion."

https://www.nurses.com/doc/sharps-safety-continuing-the-battle-0001

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PREVENTION





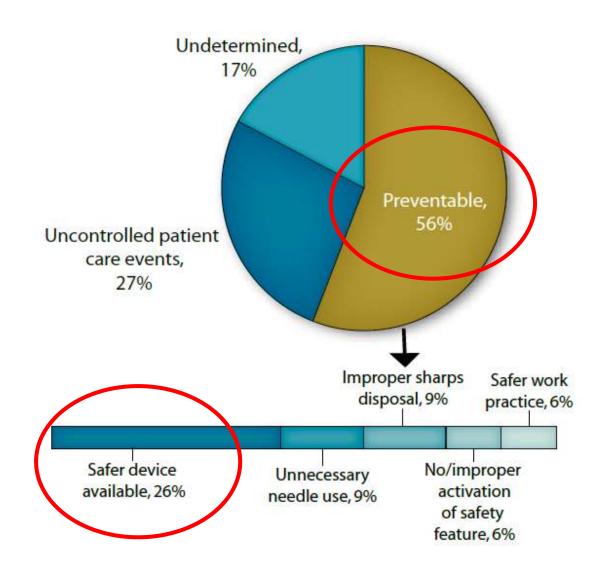
FLUJO Y CONSUMO

Empleados: 3.540 Flujo: cerca de 11 personas/día ~ 500 camas

5 toneladas de ropas lavadas/día <u>**4.500</u>** jeringas y agujas desechables/día 3 millones de pares de guantes/año ó 10 mil/día</u>

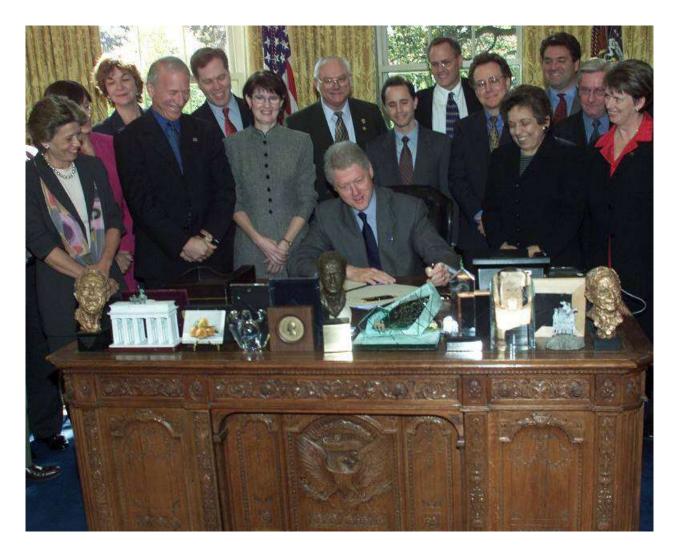
Presentado por Lidia Lima – Gerente de Residuos – SHS-SP 2011. Hospital de Clínicas – UFPR – Curitiba – PR – Brasil

Estimated Preventability of Percutaneous Injuries Involving Hollow-bore Needles (n=13,847)



NaSH - The National Surveillance System for HCW - Report (Jun95 - Dec 07)

The Needlestick Safety and Prevention Act November 6th 2000



JAGGER, 2001.



Directive (2010 / 32 / EU)

"Where there is a risk it must be eliminated"

Deadline for transposition and mandatory implementation of this Directive in all EU countries – May 2013.

6/3/2011 www.inmo.ie 27 European Biosafety Summit, Dublin, 1 June 2011 http://www.europeanbiosafetynetwork.eu/Annette%20Kennedy%20INMO.pdf <u>US</u> – *The Needlestick Safety and Prevention Act.* signed into law in November, 2000. The effective date of the regulations was April 18, <u>2001</u>.

<u>EU countries</u> – Directive UE 2010/32/EUA of 10 May 2010 - is required to be implemented as national law in all EU countries by May **<u>2013</u>**.

<u>Brazil</u> – NR 32 (Sept <u>2005</u>) – NR32 established and required that healthcare employers had to implement safety-engineered sharp devices in order to reduce employees' occupational exposure to HIV, HBV, HCV and other bloodborne diseases.

Decreto MTE n. 1.748, 30 Aug <u>2011</u>. Employers should elaborate and implement a Sharps Injury Prevention Program in no more than 120 days (December, 2011).

Sharps Injury Prevention Program Ministry of Labour and Employment Decreto MTE n. 1.748, 30 August 2011

- Needlestick prevention committee / Multidisciplinary Management Committee
- Baseline Profile of Sharps Injuries
- Determine Intervention Priorities / Sharps Injury Prevention Priorities
- Hierarchy of control measures
- Selection of Sharps Injury Prevention Devices
- HCW Training
- Implementation Plan and Schedule
- Perform Post-implementation Monitoring



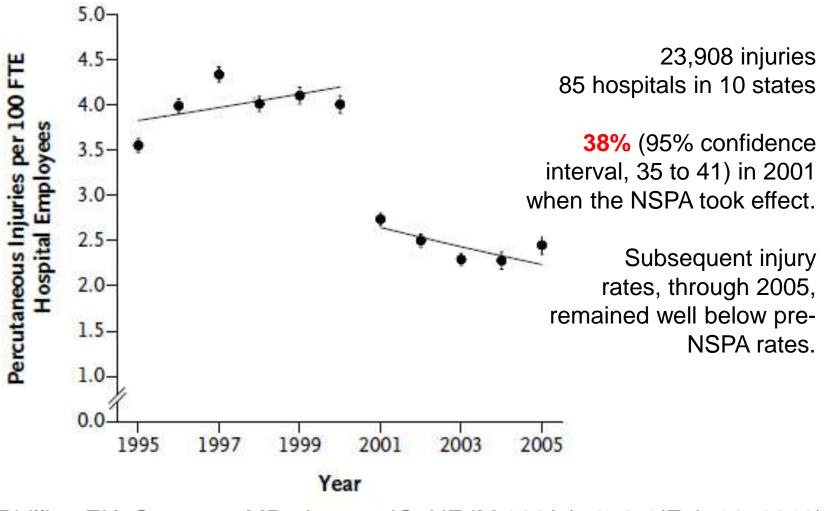
Protégete y protege a los demás utilizando dispositivos punzocortantes de seguridad





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Percutaneous Injuries before and after the Needlestick Safety and Prevention Act



Phillips EK, Conaway MR, Jagger JC. NEJM 366(7): 670-1(Feb 16, 2012).



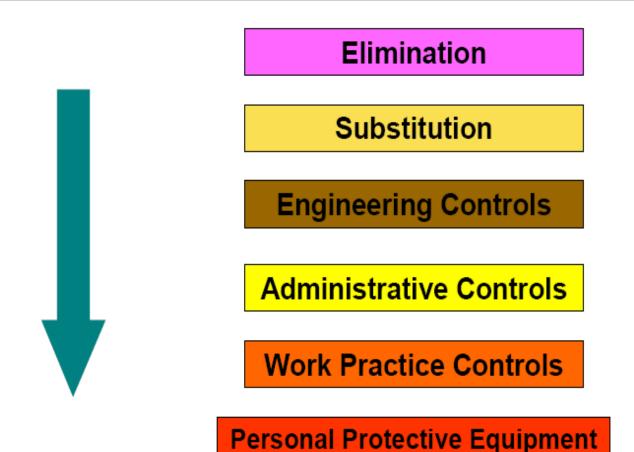
Diapositiva de Dr Luis Mazón Cuadrado Presentada en ORP, Cartagena, Octubre 2016

Indicadores Generales:

Lesiones Percutáneas por cada 100 trabajadores



How we get there . . . Hierarchy of Controls





Hierarchy of Controls

Elimination and/or Substitution

Engineering Controls

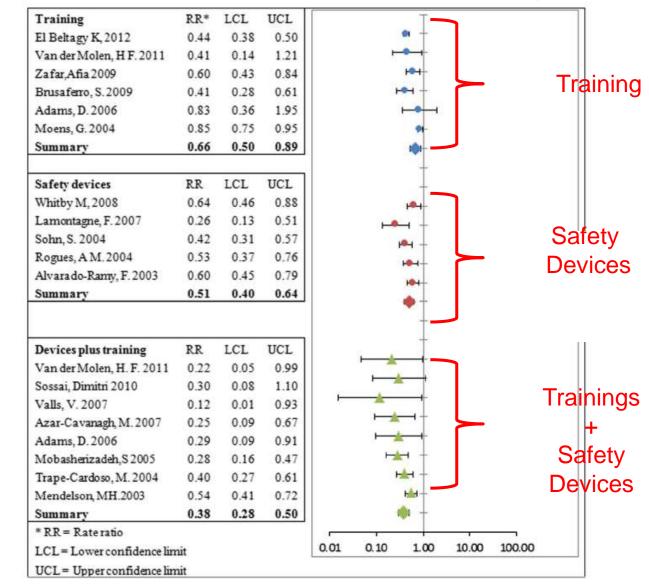
Administrative Controls

Work Practice / Controls

Personal Protective Equipment Increasing need for participation and vigilance

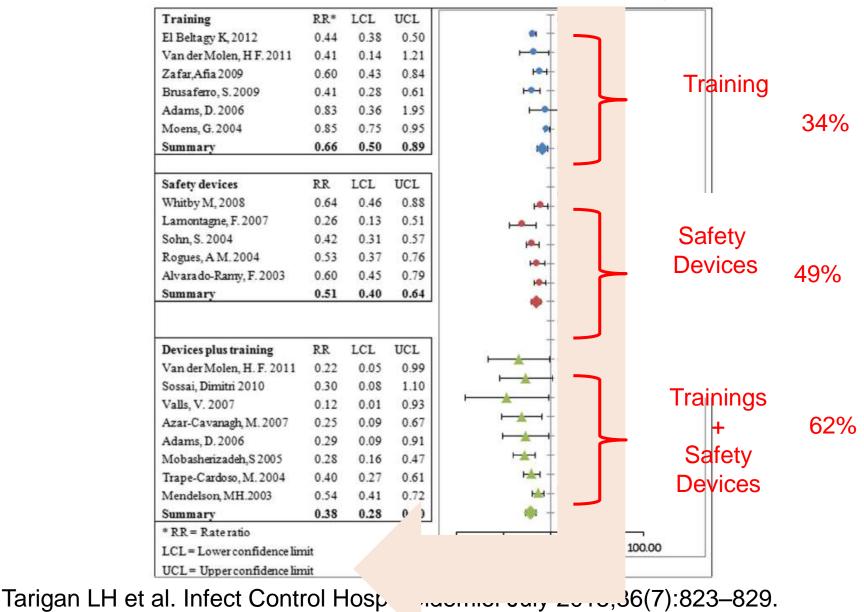
Increased effectiveness and sustainability

Prevention of Needle-Stick Injuries in Healthcare Facilities: A Meta-Analysis

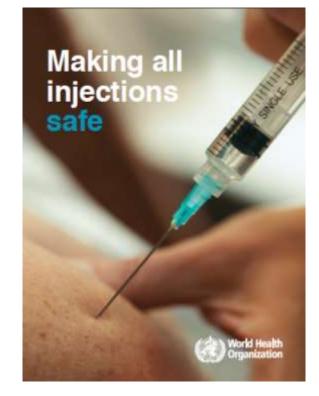


Tarigan LH et al. Infect Control Hosp Epidemiol July 2015;36(7):823-829.

Prevention of Needle-Stick Injuries in Healthcare Facilities: A Meta-Analysis







WHO guideline on the use of safety-engineered syringes for intramuscular, intradermal and subcutaneous injections in health-care settings (Feb 2015)





WHO guideline on the use of safety-engineered syringes for intramuscular, intradermal and subcutaneous injections in health care settings



SMART SYRINGES



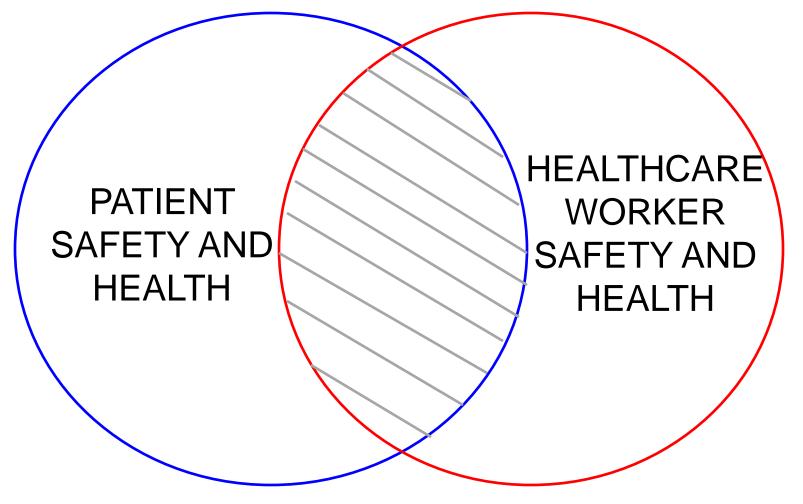
MAKE SMART INJECTION CHOICES

https://www.ncbi.nlm.nih.gov/books/NBK390474/pdf/Bookshelf_NBK390474.pdf

Good injection safety and waste management practices deliver injections that result in:

no harm to the <u>recipient</u>, no harm to the <u>health worker</u>, and no harm to the <u>community.</u>

INTERRELATIONSHIP BETWEEN PATIENT AND HCW HEALTH AND SAFETY



Dr June Fisher, RIo de Janeiro, 2010.

Use of injections worldwide

16.7+ billion/ year

Immunization

injections 5% to 10%





Presented by Ed Kelley, February 2015, SIGN WHO, Geneva.

Prevention of reuse

Inmunization -Children

Prevention of **reuse**

Prevention of *needlesticks*

Sharps waste management

Sharps waste management

Therapeutic injections

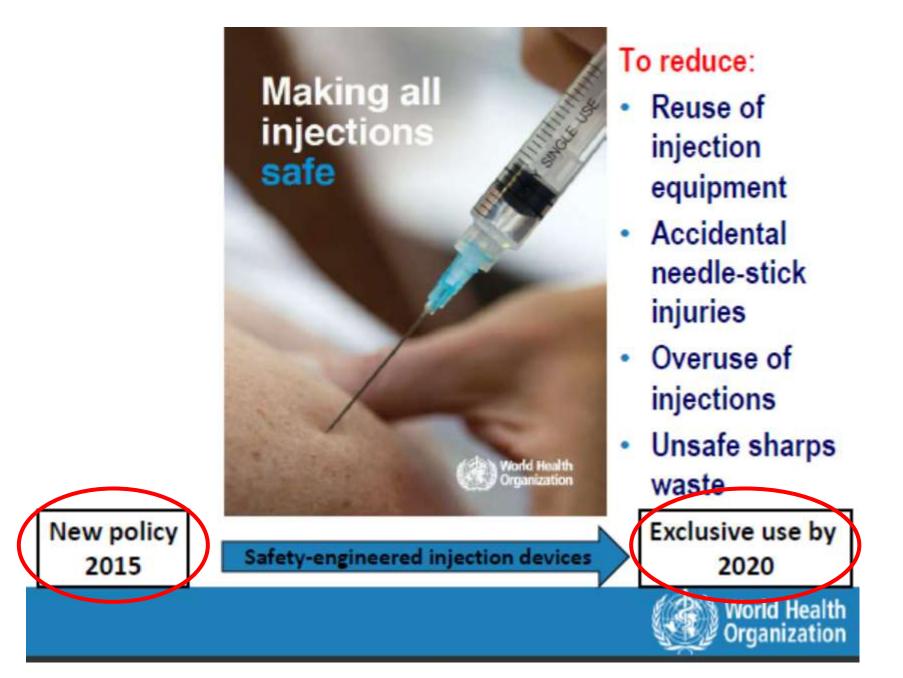
2015

2000

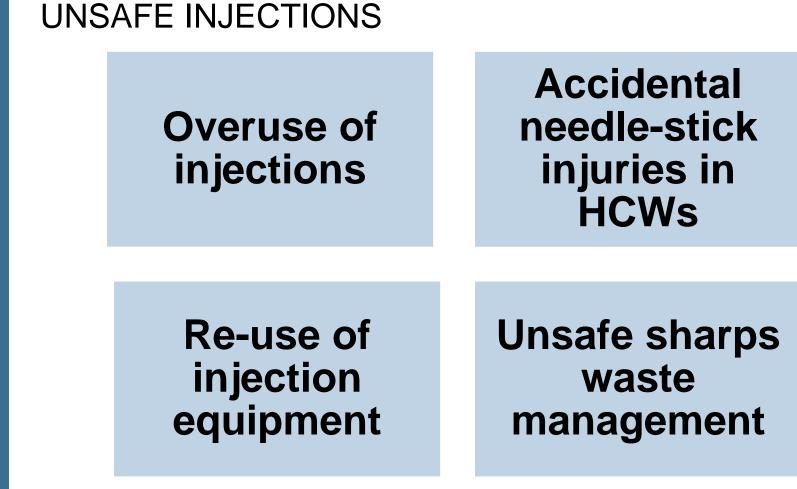
2020

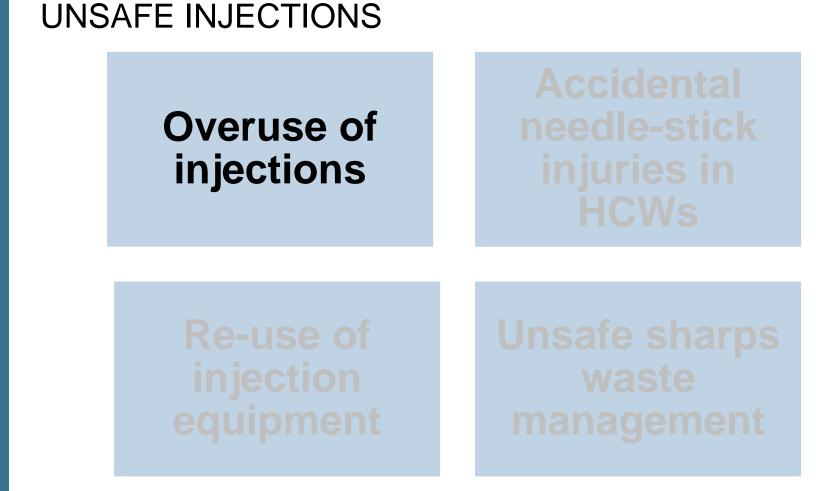
What needs to happen, who needs to do it ?

The <u>injection safety policy and global campaign</u> is a <u>three to five year initiative</u> that engages many public and private sector stakeholders such as Ministries of Health, international donor programmes, industry players and umbrella organizations representing injection device manufacturers and health care workers.



Apresentado por B. Allegranzi, fevereiro 2015, SIGN WHO, Genebra.





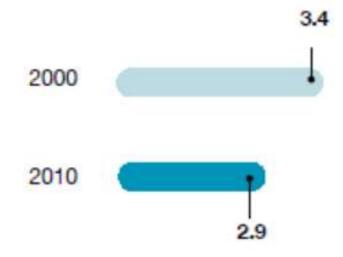
Unsafe Injections

Overuse of Injections

1.7 to 11.3 per person per year

WHO, with the support of SIGN, has developed and assisted countries in the implementation of a behavior change strategy between patients and HCW with the aim of reducing unnecessary injections and ensuring safe injecting practices.

Between 2000 and 2010, in developing countries worldwide, there was a decrease in the number of unnecessary injections: the average number of injections per person decreased from 3.4 to 2.9



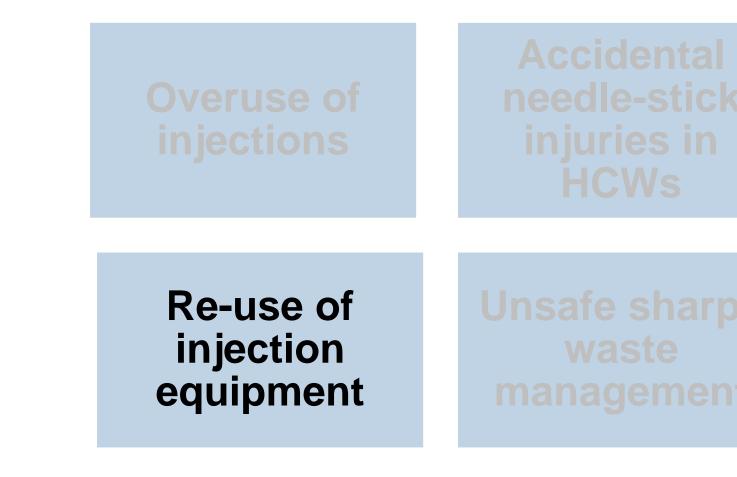
Average number of injections per person in developing countries

UNSAFE INJECTIONS

Overuse of injections

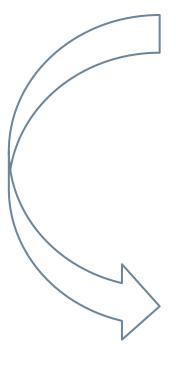
Accidental needle-stick injuries in HCWs

Re-use of injection equipment Unsafe sharps waste management



UNSAFE INJECTIONS

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PATIENTS

HEALTHCARE WORKERS



Between 2000 and 2010, in developing countries worldwide, <u>re-use of injection equipment decreased</u> <u>from 39.6% to 5.5%.</u>

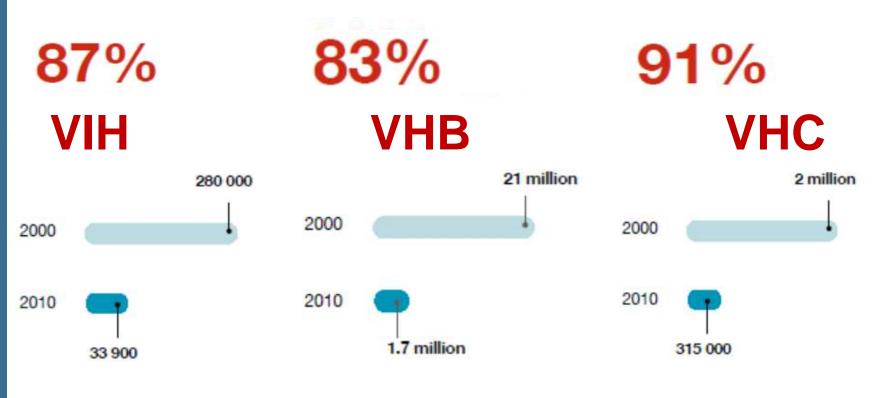


Reduction in re-use of injection equipment



Infection safety has played a crucial role in progress on **reducing the global burden** of HIV and hepatitis.

Reduction in HIV/HBV/HCV infections due to unsafe injections



To Prevent Transmission of Infections in Healthcare



Injection Safety is Every Provider's Responsibility



0.03030

Paciente é contaminado por Aids em hospital

11/05/2002

tima foi internada no Centro Previdenciário de Niterói com dengue; auxiliar de enfermagem usou seringa de soropositivo im vendedor de 38 anos foi ntaminado pelo vírus da is durante sua internação Centro Previdenciário de erôi (CPN), no hairro de ima, em ahril do ano pasto. O paciente havia se innade para tratar de dene hemorrágico. Acusado ter usado uma seringa nfaminada com u HIV no ndedor, que estava na sma enfermariz ao lado de paciente socopositivo, o atliar de enfermagem Pau-Roberto Martins, de 43. os, está foragido. Ele já loi mitido e está indiciado por itativa de homicídio em inérito policial aberto na DP (Centro). - Tinha planos de ter ils filhos e não pusso mais. nho um garoto de fi anos e não sabe de nada ainda. m meu pal, que morreria soubesse. Nunca uvei pre-

Vitima exige indenização

• RIO

tvativa com a minha espoe agora tenho de lazer is-Sou evangélico e tenho ilta esperança de que se scubra logo a cura. Não neo na morte, mas em vio máximo possível com a tha família, vendo o meu a crescer - disse o ven-

O VENDEDOR contaminado pois virus da Aids." Tinha planos de ter mais filhos e são posso mais."

Vítimas do dengue pedem indenização

2ª edição + Sábado, 11 de mais de 2003

Ação critica omissão governamental

 O Centro de Assistência missor do dengue. e Defesa da Cidadania e do Os autores da ação não fi-Consumidor (Cadeccon). xaram o valor do ressarciuma organização não gomento, o que deverà ser leivernamental (ONG) formato pela Justica federal caso da por um grupo de advoela dé ganho de causa à Cadeccon. Os advogados de gaños cariocas, está pedin-Marcel Felipe e Rosangela do, em ação indenizatória. reparação por danos mo-Rodrigues pedem ainda à rais e materiais para duas Justica que leve em conta pessoas que contrairam o "a malignidade da doença e dengue no Rin. Marcel Feas sequelas dai advindas" Os autores pedem também lipe Machado Lopes e Rosangela Rodrigues foram a condenação dos govercontaminadus este ano. nos federal, estadual e mu-Rosangela licou doente nicipal "por danos mateduas vezes: em janeiro e risis, a serem fixados em liem fevereiro quidação de sentença".

Na ação médita, o Cadec-- Somos uma institui con diz que a contaminação cão sem fins lucrativos. dos dojs é resultado da que nasceu da necessidaorrássão dos governos fedede do cidadão e do comural, estadual e municipal. midor de exercer seus di-Ainda segundo a ONG, eles reitos -- disse o advogado bertam permittidu a proliferação do mosquitu trans-

Helio Dager, presidente do Cadecoon

Paciente entra com dengue e sai com Aids

. Um vendedor de 38 anos, internado no Centro Previdenciário de Niterói para se tratar de dengue hemorrágico, foi contaminado em março passado pelo virus HIV quando nm auxiliar de enfermagem do hospital municipal usou nele a mesma setinga que havia acabado de utilizar num paciente de Aids. O vendedor está processando a preleitura de Niteról. Página 24

Serra: denúncia é ataque especulativo

 José Serra (PSDB) diase que sua candidatura viroia 'alvo de um ataque especulativo movido a denúncias e boatos subre pesquisas" Ao comentar reportagon da "Folha de 5 Paulo", disse que não se envolveu na negociação du Bancu do Brasil que teria favorecido um parente seu. O BB divulgou nota dizendo que já investiga Vii o caso. Página 8

PANELAS. BOTUGES e settes de alterantes no interpri da lignos da Natividad

JORGE BASTOS MORENO Acaba o Cativeiro da Ma

Acusado

ter usado uma seringa ntaminada com o HIV no ndedor, que estava na sma enfermaria ao lado de a paciente soropositivo, o xiliar de enfermagem Pau-Roberto Martins, de 43 os, está foragido. Ele já foi mitido e está indiciado por itativa de homicídio em inérito policial

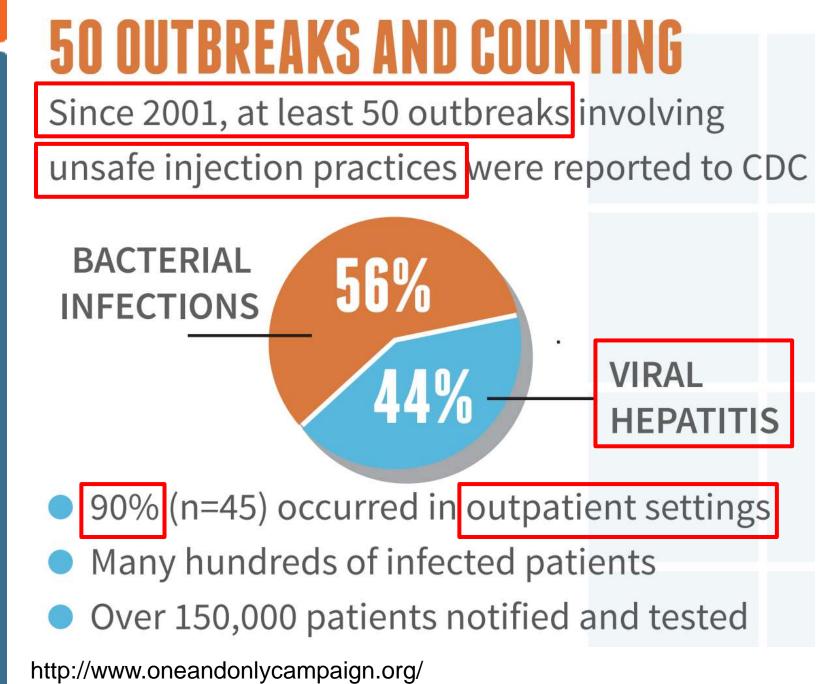
Rx for Safe Injections in Healthcare

1 Needle 1 Syringe + 1 Time

OInfections

Safe injection practices prevent transmission of infectious diseases. Patients and healthcare providers must insist on nothing less than *One Needle, One Syringe, Only One Time* for each and every injection.

For more information, please visit: OneandOnlyCampaign.org





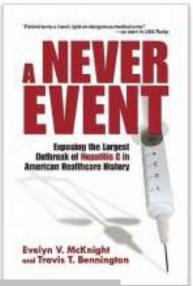


Evelyn McKnight's Story

Dr. Evelyn McKnight, mother of three, was battling breast cancer and was infected with hepatitis C during treatment because of syringe reuse to access saline flush solution.

Along with Evelyn, a total of 99 cancer patients were infected in what was one of the largest outbreaks of hepatitis C in American healthcare history.

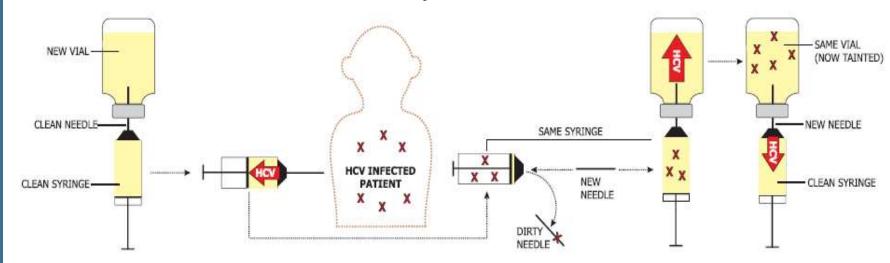
Evelyn co-founded HONOReform, a foundation dedicated to improving America's injection safety practices, and was the catalyst of the formation of the Safe Injection Practices Coalition.



Toolkit – Safe Injection Practices Coalition. One and Only Campaign – 2012.

Indirect syringe reuse

Nevada endoscopy center HCV investigation, 2008. Acute Hepatitis C Virus Infections Attributed to Unsafe Injection Practices Nevada, 2007



1. Clean needle and syringe is used to draw medication

2. When used on an HCVinfected patient, backflow from the injection or removal of the needle contaminates the syringe 3. When again used to draw medication, contaminated syringe contaminates the medication vial 4. Contaminated vial that is reused exposes subsequent patients to risk of HCV infection

Melissa Schaefer, SIGN 2009.

MMWR; May 16, 2008; 57:19

Injection Practices Among Clinicians in United States Health Care Settings

Survey of 5,500 U.S. healthcare professionals

- 1 percent "sometimes or always" reuse a syringe on a second patient
- 1 percent "sometimes or always" reuse a multidose vial for additional patients after accessing it with a used syringe
- 6 percent use single-dose/single use vials for more than one patient

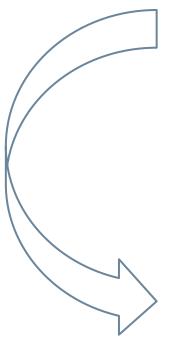
Pugliese G et al. Am J Infect Control 2010;38:789-98. http://www.oneandonlycampaign.org/sites/default/files/upload/pdf /ProviderToolkitPowerPoint_508.pdf





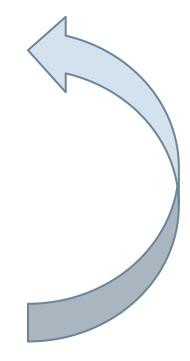
Aquino, S. Rio de Janeiro, 2006.

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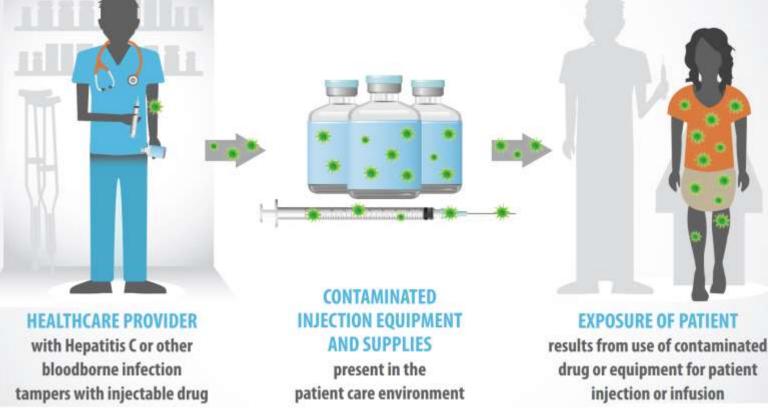


PATIENTS

HEALTHCARE WORKERS



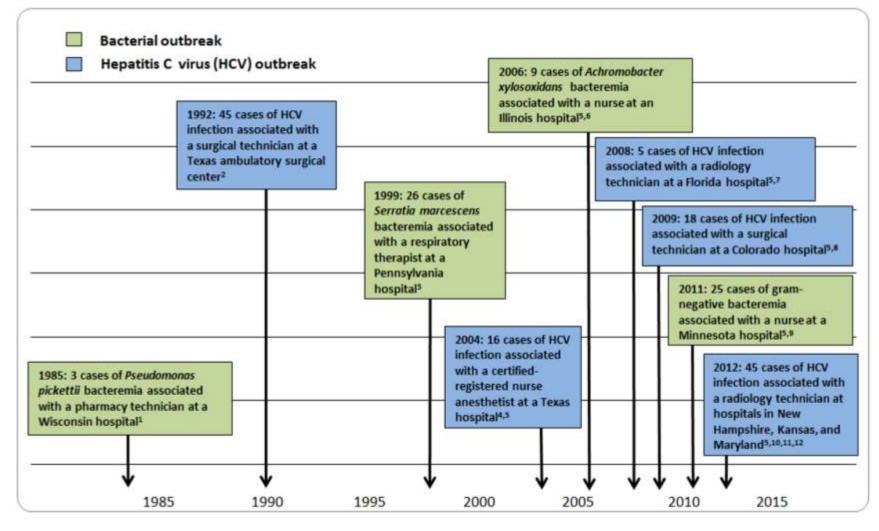
DRUG DIVERSION* SPREADS INFECTION FROM HEALTHCARE PROVIDERS TO PATIENTS



Drug diversion is a medical and legal concept involving the transfer of any legally prescribed controlled substance from the individual for whom it was prescribed to another person for any illicit use.

http://www.oneandonlycampaign.org/

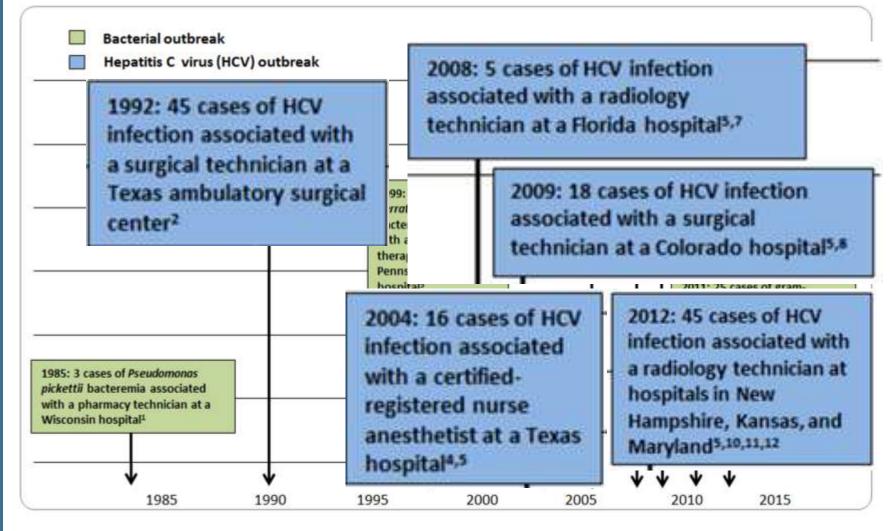
U.S. Outbreaks Associated with Drug Diversion by Healthcare Providers, 1983-2013



http://www.oneandonlycampaign.org/

https://www.cdc.gov/injectionsafety/drugdiversion/drug-diversion-2013.html

U.S. Outbreaks Associated with Drug Diversion by Healthcare Providers, 1983-2013



http://www.oneandonlycampaign.org/

https://www.cdc.gov/injectionsafety/drugdiversion/drug-diversion-2013.html

at **Exposure-prone** invasive procedures **H** Characteristics of exposure-prone procedures include digital palpation of H a needle tip in a body cavity or the simultaneous presence of the HCW's H fingers and a needle or other sharp instrument or object in a poorly visualized or highly confined anatomic site.

1r

Ir.

Henderson Dit et al. 10112 31(3).203-232, 2010.

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Updated CDC Recommendations for the Management of HBV–Infected HCP and Students

HCP – The health-care provider must be sufficiently <u>viremic</u> (i.e., have infectious virus circulating in the bloodstream)

HCP must have an **injury** (e.g., a puncture wound) or a **condition** (e.g., nonintact skin) that allows exposure to his/her blood or other infectious body fluids

+

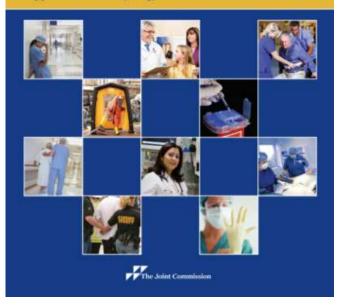
HCP's **blood or infectious body fluid must come in direct contact** with a patient's wound, traumatized tissue, mucous membranes, or similar portal of entry during an exposure-prone procedure

Holmberg SD et al. MMWR 2012 / Vol. 61 (3)

<u>**"SAFETY</u>** is avoiding both short- and long-term harm to people ...</u>

Improving Patient and Worker Safety

Opportunities for Synergy, Collaboration and Innovation



"This definition does not differentiate among patients, their families, staff and licensed independent practitioners, visitors,

And yet, many health care organizations have <u>"siloed" safety</u> <u>programs</u>, creating one for patients, another for workers, and yet another for others who may be at risk.

The organizational culture, principles, methods, and tools for creating safety <u>are the same, regardless of the</u> <u>population</u> whose safety is the focus."

https://www.jointcommission.org/assets/1/18/TJC-ImprovingPatientAndWorkerSafety-Monograph.pdf

Hippocratic Oath

"First, do no harm."

In health care, the primary ethical imperative is "First, do no harm." Although we have traditionally applied this obligation to our patients, it is important to establish it also as our obligation to those with whom we work—and to all within the health care setting.

El ciclo de investigación en Seguridad del Paciente



Value of Institutionalizing a <u>Culture of</u> <u>Safety</u> to Healthcare Organizations:

A culture of safety is the shared commitment of management and employees to ensure the safety of the work environment.

Occupationally Acquired HIV Infection

Riscobiologico.org

"For better or worse, my life took a new direction the day a contaminated needle punctured my hand. I'm telling my story on behalf of all nurses who face this hazard daily, and my message is this: It doesn't have to happen."

Lynda Arnold, Nursing 1997.

www.riscobiologico.org



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Agenda

29 de março

Spring 2017 Conference -Society for Healthcare Epidemiology of America

16 de maio

XVIII Congresso Panamericano de Infectologia

ver agenda

TIVE UM ACIDENTE O que fazer?

 clique aqui para conhecer os procedimentos

BioNews

28/02/2017

Precarização e intensificação do trabalho ampliam casos de LER/Dort

Thank you very much!

Acidentes com resíduos perfurantes em hospitais somam 21%

ver todas

Lista de Discussão

" Bom dia colegas,

Trabalho em um hospital do estado de pequeno porte Estou tentando sensibilizar os funcionários quanto a NR32 Tenho casos quanto ao uso de ..."

Mais de 5.000 profissionais inscritos. CADASTRE-SE



Bioslide

Risco Biológico em Acidentes Percutâneos e Mucocutâneos >> Dra Lessandra Michelim

Risco Biológico e NR-32 >> Dra Valéria Saraceni

ver todas

Bioinformações

Protocolo Clínico e Diretrizes Terapêuticas para Profilaxia Antirretroviral Pós-Exposiçã de Risco à Infecção pelo HIV >> Departamento de DST, Aids, e Hepatites Virais - MS

Updated US Public Health Service Guidelines for the Management of Occupational Exposures to Human Immunodeficiency Virus and Recommendations for Postexposure Prophylaxis >> Riscobiologico.org

Acknowledgment

This seminar was possible thanks to the auspices and cooperation of the Infection Control Center (CDC), according to the cooperation agreement CDC-RFA-CK13-1301. "BUILDING CAPACITY AND NETWORKS TO ADDRESS EMERGING INFECTIOUS DISEASES IN THE AMERICAS"

Next Webminar April 11 – 2pm EST

- "Costs of healthcare associated infections in Latin American and Caribbean countries: Systematic Review of the literature"
- Dr. Cristiana Toscano– Universiade federal de Goias