

# **In**<sup>6</sup>-Based **W**omen **I**ncuVestor<sup>®</sup> **N**etworks

## **Women Entrepreneurs Coping With Social and Environmental Issues**

### **What we have been doing** ***Safety Syringe For Women***

**2006 APEC 11th WLN Meeting  
September 19, 2006  
Hanoi, Viet Nam**

**Presented by Lin Lee, Lee  
Founder/CEO of MedicalChain International Corp.  
Chinese Taipei**

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**A Global Healthcare Issue :**

**Needlestick Injuries**

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## Global Healthcare Issue : **Needlestick Injuries**

- ★ NIOSH estimates 1,000,000 needlestick injuries annually in US.
- ★ More than 100,000 needlestick injuries annually in UK.
- ★ More than 100,000 needlestick injuries annually in Taiwan.
- ★ Needlestick injuries are undocumented in many developing countries.
- ★ One needlestick occurs every 30 seconds in US.
- ★ More than 2,000 healthcare workers suffer sharp injuries per day in US.

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## **Global Healthcare Issue : Needlestick Injuries**

- ★ Study reported, in average, each healthcare worker incurs 4.3 needlestick injuries within all career in US.
- ★ Study reported, in average, each healthcare worker incurs 2.6 needlestick injuries with 10 months in China.
- ★ Study reported, in average, each healthcare worker incurs 1.2 needlestick injuries annually in Taiwan.
- ★ 33% of the healthcare works incur needlestick injuries annually.
- ★ 160 people have contracted occupationally aquired HIV in US. More than 40 have done so in Europe.

## **20 Diseases Transmitted Through Needlesticks**

**Hepatitis B、 Hepatitis C、 HIV/AIDS、 Syphilis、  
Malaria、 Blastomycosis 、 Brucellosis、  
Diphtheria、 Cutaneous gonorrhea、 Herpes 、  
Mycoplasma caviae、 Staphylococcus aureus、  
Toxoplasmosis、 TB、 Streptococcus  
Pyogenes、 SARS、 Herpes Zoster、 Ebola、  
Dengue Fever ...**

Source:

<http://www.iosh.gov.tw/netbook/needle/needle.htm>

Center of Medical Employee Safety & Health, 2004.11.11

## **Risk of Infection after Exposure**

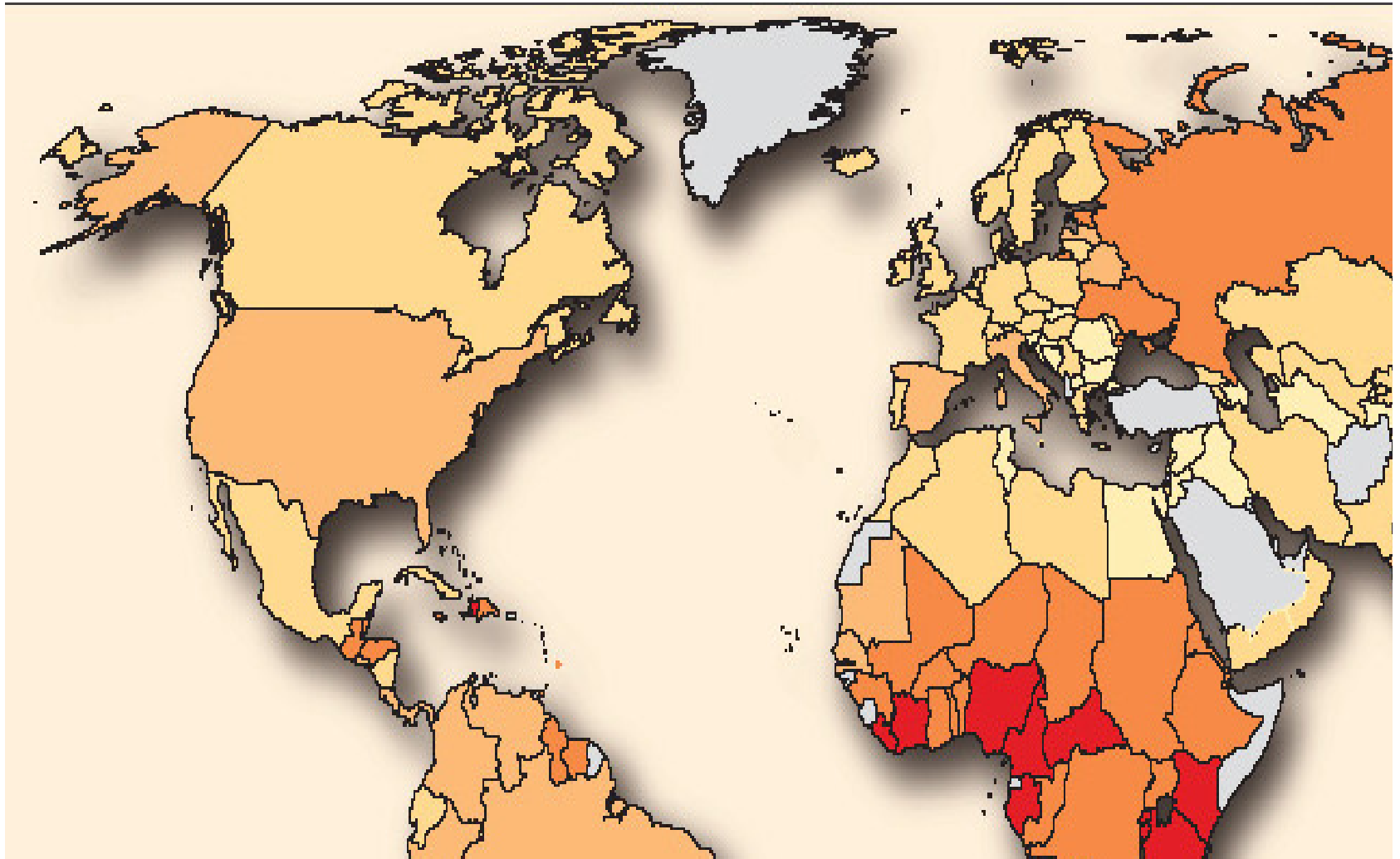
- ★ **HBV----- 6-30%**
- ★ **HCV----- 1.8 %**
- ★ **HIV ----- 0.1-0.3%**
- ★ **WHO reported : 8~16M people infected HBV after needlestick injuries; 2M~4.5M people infected HCV; 70,000~150,000 people infected HIV worldwide annually; 1.3M died.**

**Data source :**

**Exposure to Blood What Healthcare Personnel Need to Know,updated July 2003**

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## The Global Prevalence of HIV / AIDS Infection



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## **2005 Global HIV/AIDS Infection Status**

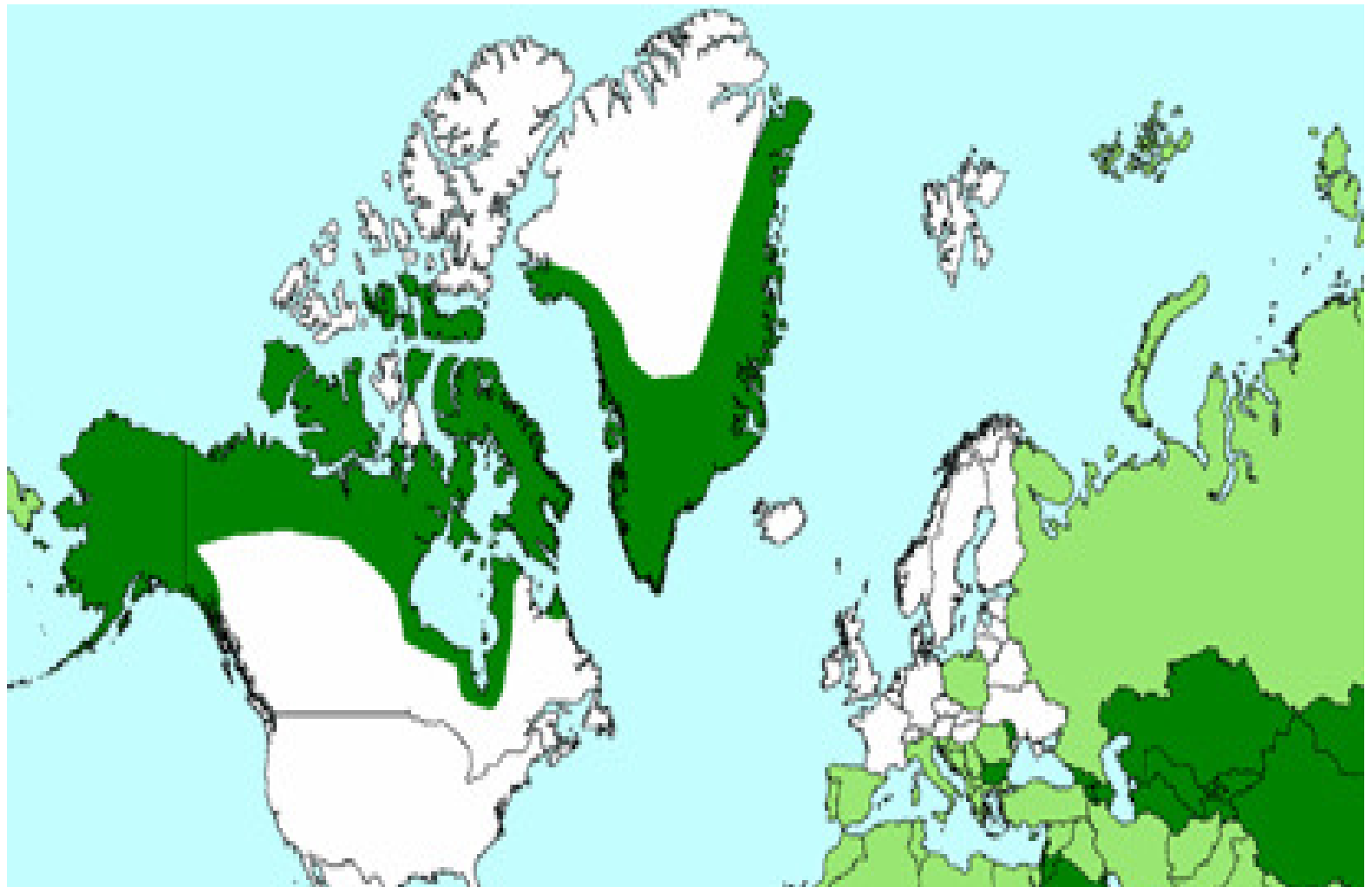
- ★ **Average 14,000 New HIV/AIDS Infections Per Day**
- ★ **Average 10 New Infections Per Minute**
- ★ **95% of The Infections Occur in Developing Countries**
- ★ **12000 (85%) of the New Infected in the Age of 15 ~ 49**
- ★ **50% of the New Infected are Female.**
- ★ **50% of the New Infected at the Age of 15 ~ 24**
- ★ **2005 Worldwide Population of HIV/AIDS 403M**
- ★ **2005 Worldwide New Infections of HIV/AIDS 4.9M**
- ★ **2005 Worldwide Death of HIV/AIDS 3.1M**

*UNAIDS :Report on the global HIV/AIDS epidemic – Dec 2005*



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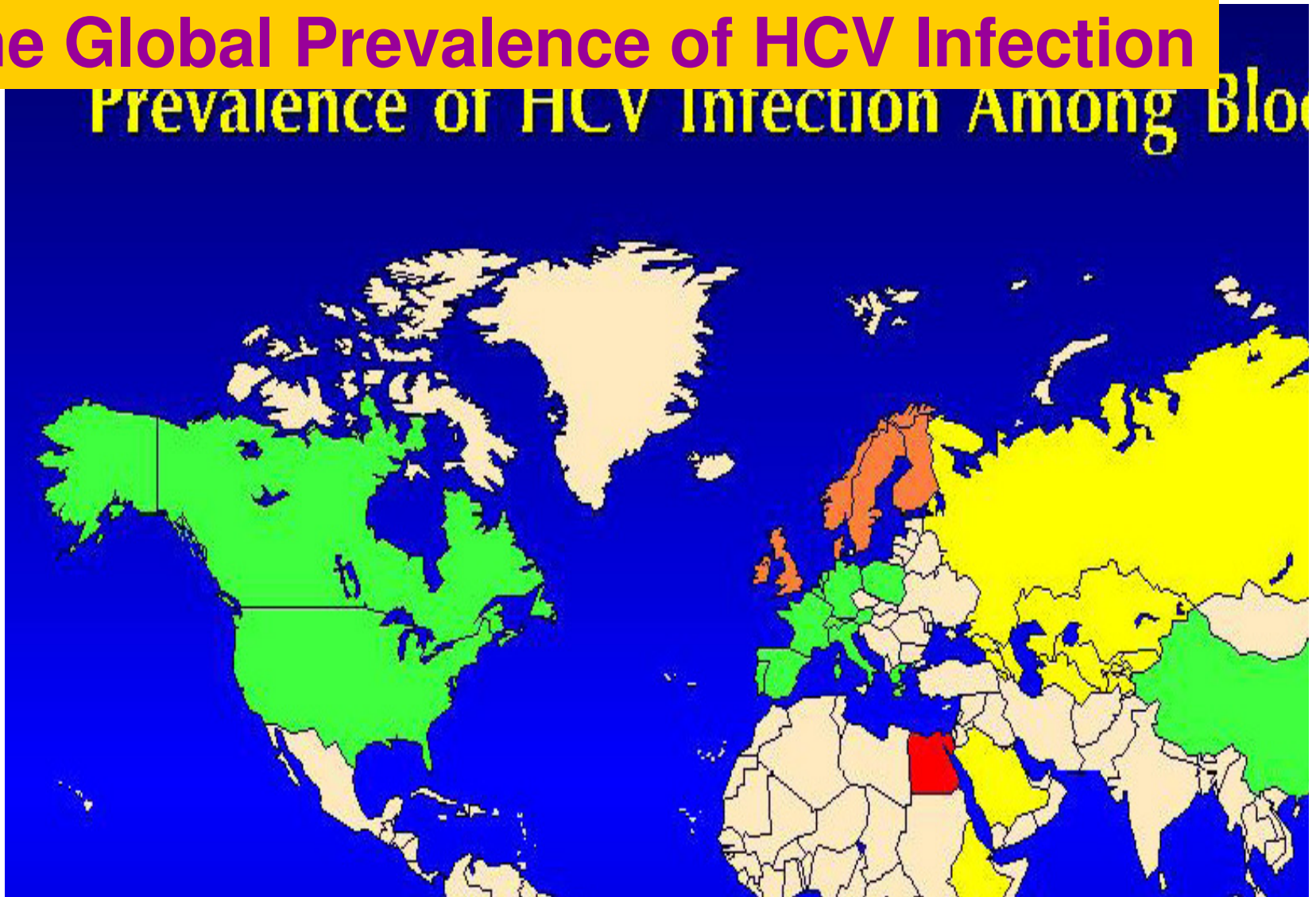
## The Global Prevalence of HBV Infection



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## The Global Prevalence of HCV Infection

### Prevalence of HCV Infection Among Blood



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### **The Social Cost of Needlestick Injuries in US**

- ★ The average track cost of each needlestick injury is US\$ 3,000.
- ★ If the injury incurred HIV, the cost is up to US\$ 1,000,000.
- ★ The total cost of 1M needlestick injuries per year is up to US\$ 3B.
- ★ WHO reported : 8~16M people infected HBV after needlestick injuries; 2M~4.5M people infected HCV; 70,000~150,000 people infected HIV worldwide annually; 1.3M died.

**What we have done  
to cope with  
the hazard of  
needlestick injuries?**

## **First Legislation in US**

**November sixth of 2000, US President Clinton signed the bill for safety syringe (Needle-stick Safety and Prevention Act, HR5178), authorizing federal OSHA to amend Blood-borne Pathogens standard, this has gone into effect since April of 2001.**

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## **Provisions of the new law**

- ★ **Requires health care employers to document in their exposure control plan that they have evaluated and implemented safety- engineered sharp devices and needleless systems;**
- ★ **Requires that exposure control plans be reviewed;**
- ★ **Requires each health care facility to maintain a sharps injury log with detailed information;**
- ★ **Requires employers to solicit input from non- managerial (e.g., frontline) health care workers;**
- ★ **Expands the definition of "engineering controls"**

## **Safety-Engineered Sharp Devices**

### **1. Needle Retracted**

- (1) Safety syringe with auto retraction of needle**
- (2) Safety syringe with manual retraction of needle**

### **2. Needle Sheathed**

- (1) Safety syringe with auto sheath of needle**
- (2) Safety syringe with manual sheath of needle**

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## The Best Kind of Safety Syringe

### Single-Handed Operation

The free hand must be always kept away from the sheath and well behind the exposed needle.



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### **Only 3 One-Handed Auto Retractable Safety Syringes in Global Market**

- \* Integra                      Becton Dickinson**  
**USA                              US\$ 0.67**
  
- \* VanishPoint      Retractable Technologies Inc.**  
**USA                              US\$ 0.48**
  
- \* MySafety™      MedicalChain International Corp.**  
**Chinese Taipei              US\$ 0.30**

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## Special Charity “Women For Women” Program

- 1. Special Brand “*SafetySyringe4Women*”**
- 2. Half-Half Donation of 5 M Units for APEC Economies in 2007.**
- 3. Recruit Distributors in APEC Economies to Implement the Charity Donation Program**

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**Thank You**