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

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

**2006 APEC 11th WLN Meeting
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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

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Risk of Infection after Exposure

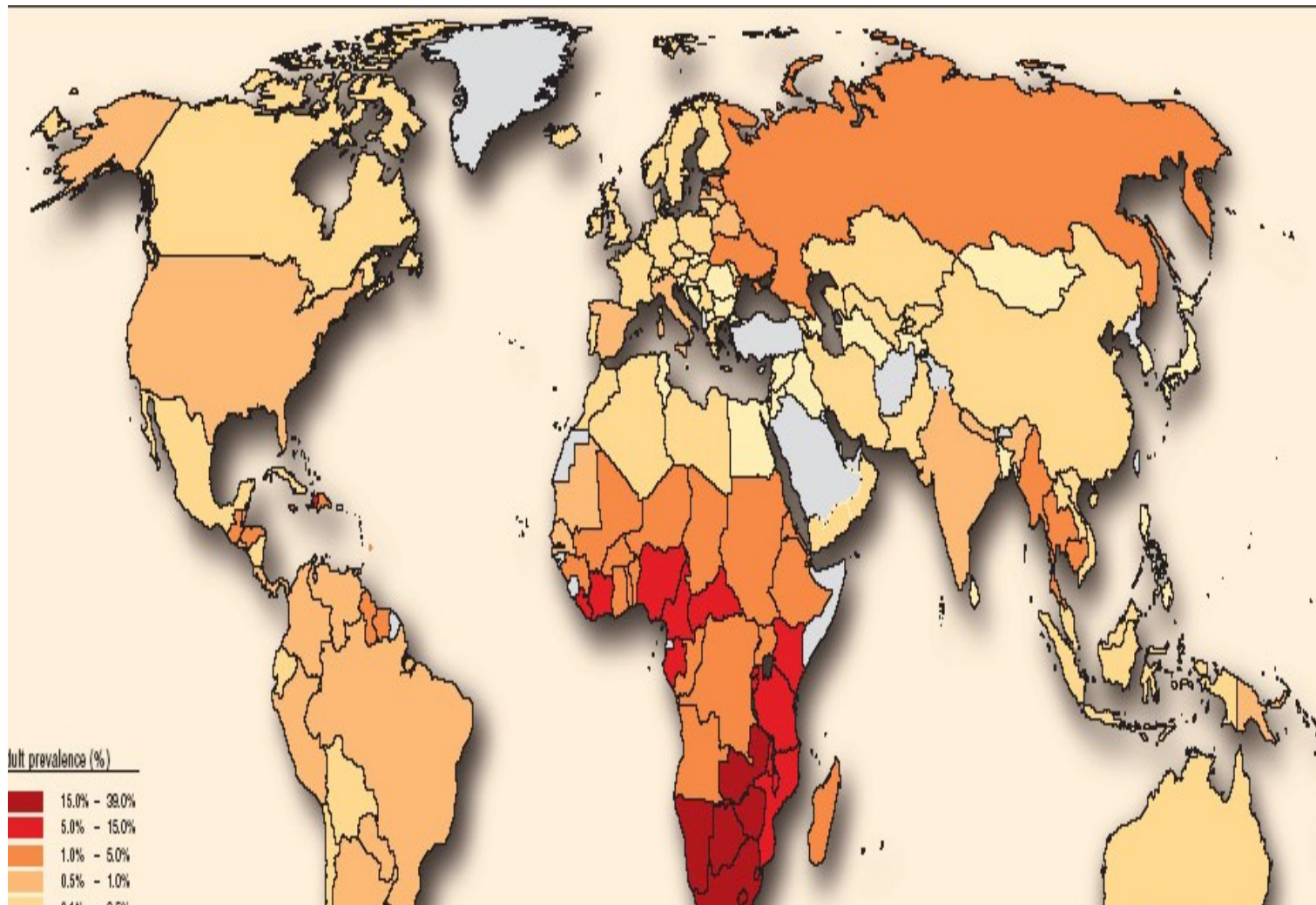
- ★ HBV----- 6-30%
- ★ HCV----- 1.8 %
- ★ HIV ----- 0.1-0.3%
- ★ WHO reported : 8~16M people infected HBV after needlestick injuries; 2M~4.5M people infected HCV; 70,000~150,000 people infected HIV worldwide annually; 1.3M died.

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

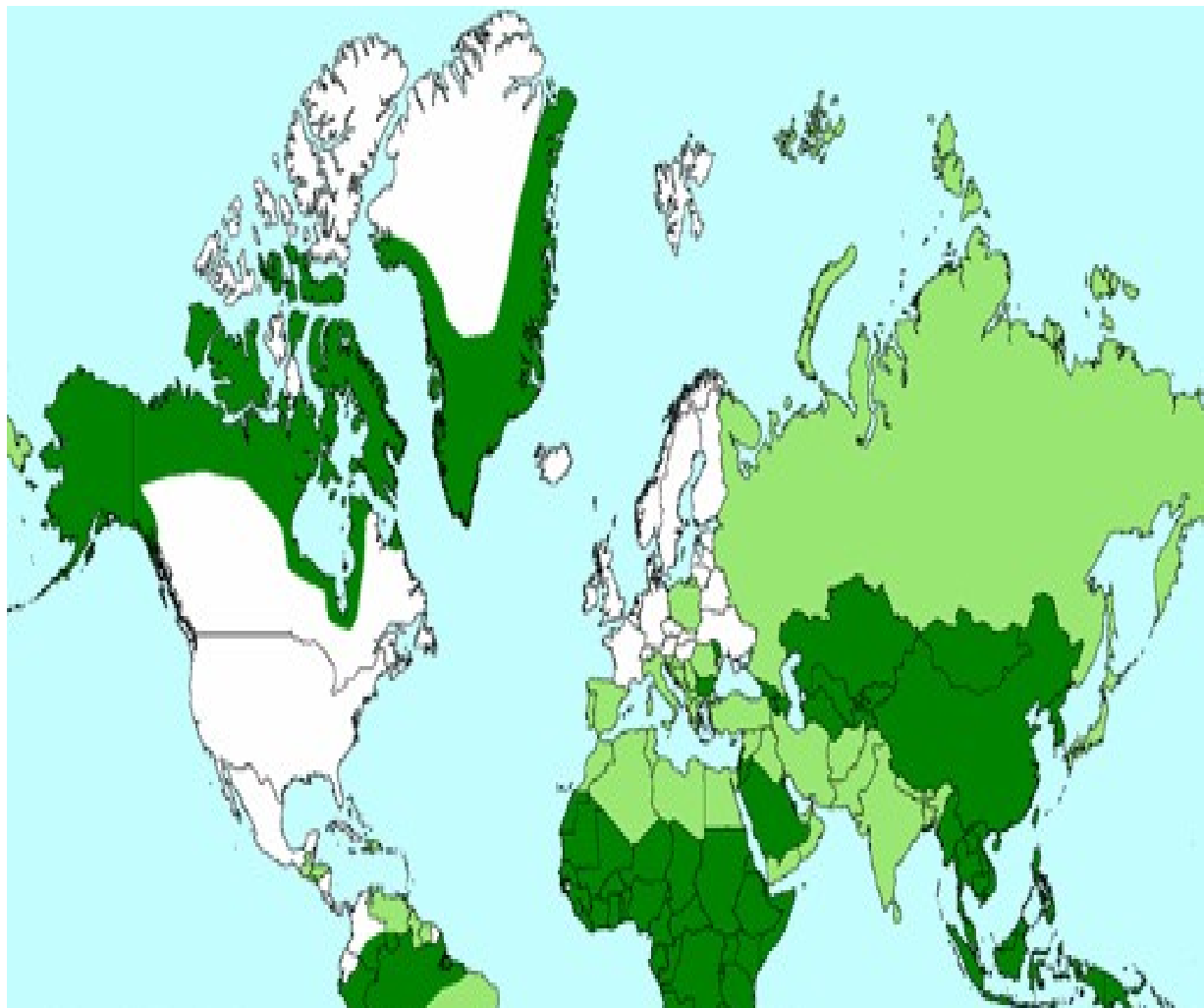


2005 Global HIV/AIDS Infection Status

- ★ 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

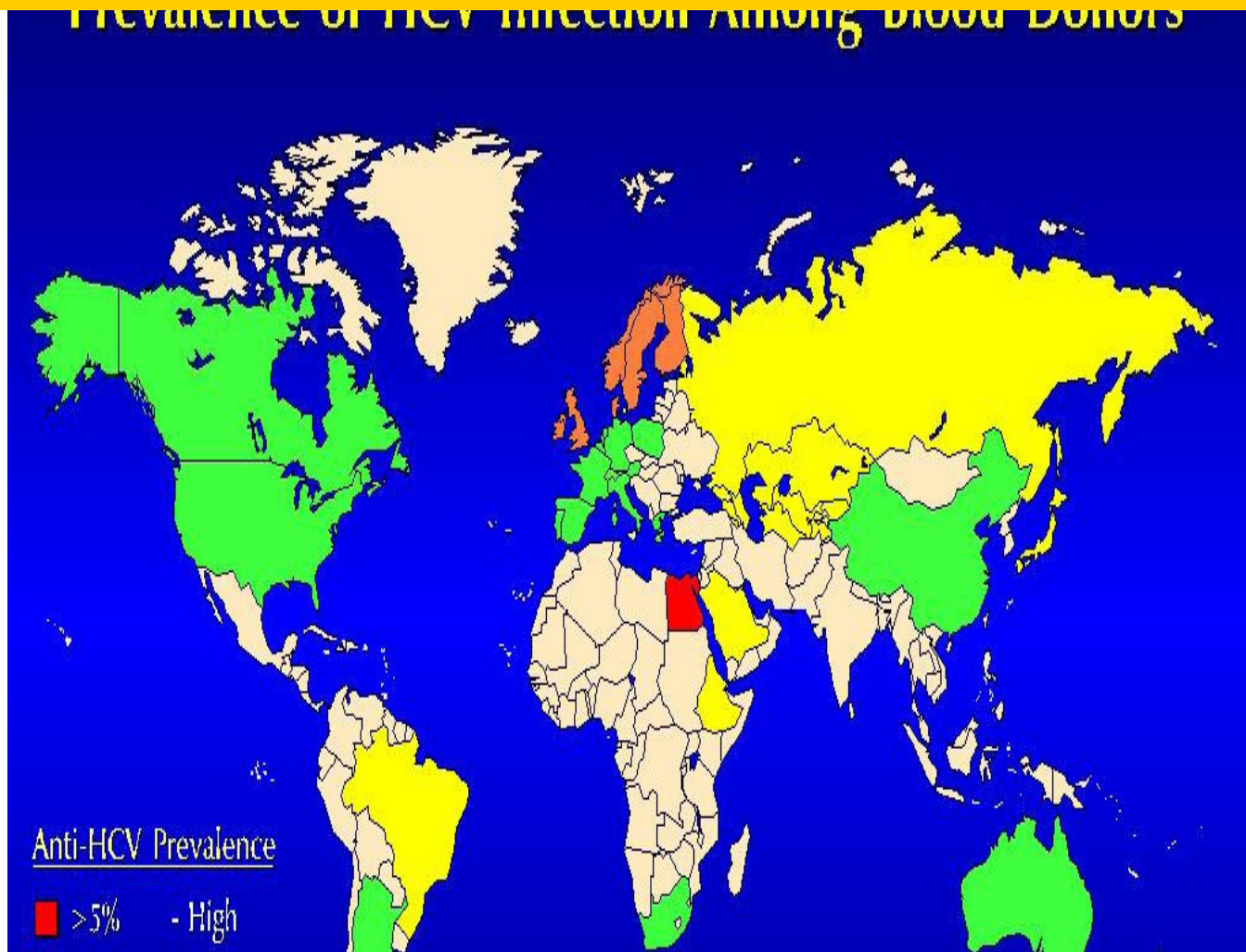
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The Global Prevalence of HBV Infection



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The Global Prevalence of HCV Infection



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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.

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**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.

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