



### SIGN Inception: December 1999 Name: Safe Injection (Global) Network (SIN=>SIGN) WHO "home": Blood Safety and Clinical Technology (BCT) Team Migrate outside of EPI, but still within Cluster (No nosocomial unit) Support of Communicable Disease Cluster Format: Secretariat + National Chapters + SIGN List serve Advocacy: Bull WHO special issue (ID authors, topics, Adam Kane paper) (2000 WHA Resolution: eliminate largest iatrogenic problem of 20th C.) New joint WHO-UNICEF joint policy on "bundling strategy" AD = Auto-Disable <= Auto-Destruct mass campaigns => all routine immunizations Alternative injection technologies:

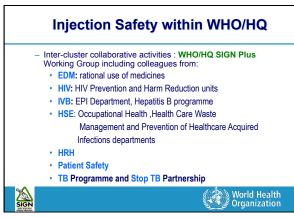
Disposable cartridge jet injectors?
 Plastic needle?

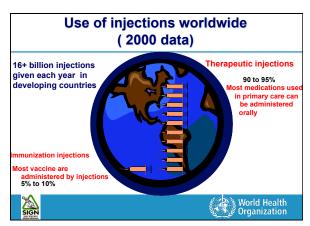
Plan for Inaugural Meeting of SIGN, Geneva

# The Safe Injection Global Network (SIGN) (www.injectionsafety.org) • Voluntary association of stakeholders aiming to achieve safe and appropriate use of injections world-wide • Two components - The SIGN associates - A secretariat (based at the World Health Organisation) • Collaboration within SIGN - Information exchange - Co-ordination of communication strategies - Development of a common strategic framework

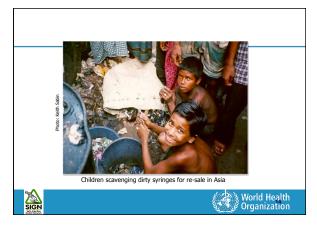
# Associates of the Safe Injection Global Network International organizations and programs (WHO, UNICEF, UNAIDS, and others) Non Governmental Organizations (NGOs) Governments Universities Healthcare worker, student, and consumer organizations Consultants Industry

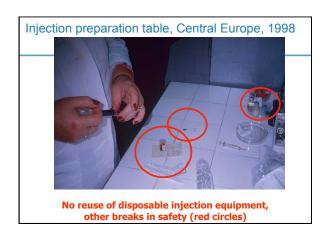






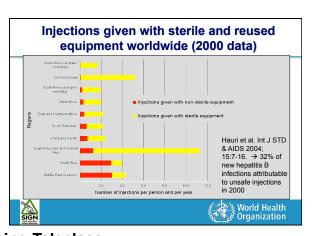




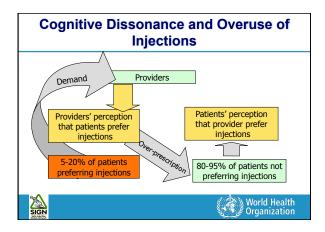








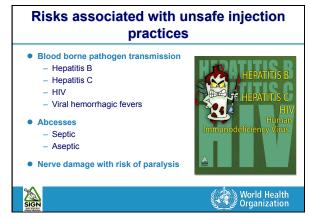
A Webber Training Teleclass Hosted by Benedetta Allegranzi, Clean Care is Safer Care www.webbertraining.com

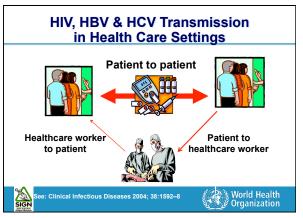




# Motivations for overuse of injections among health-workers Belief of a better efficacy of injected drugs (Romania) Ability to directly observe therapy and compliance with treatment regimens Financial incentives (Pakistan: health care providers can charge a higher fee if they administer injections) World Health Organization

# Reasons for unsafe injection practices • Lack of awareness regarding the risks associated with unsafe injections • Lack of injection supplies • Lack of disposal infrastructure for injection equipment World Health Organization





### Selected studies indicating an association between injections and transmission of bloodborne pathogens HBV in Taiwan (1997) - 60% of new cases of infections attributable to unsafe injections HBV in Moldova (1994-1995) - 9.7% prevalence of infection in the population - 52% of new cases of infections attributable to unsafe injections HCV in Egypt (1996) - > 40% of new cases of infection attributable to unsafe injections HIV infected children in Romania (1990)







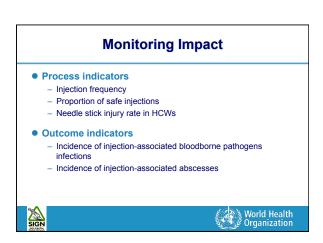








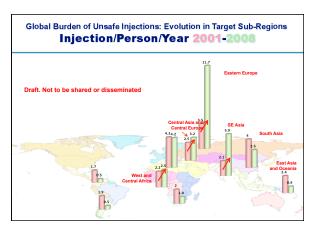


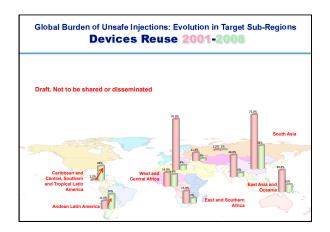


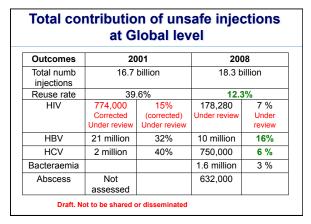




Number of injections/person/year and reuse rate 2001-2008 by WHO Region					
Region	Number of inje person/ye		Reuse rate %		
	2001	2008	2001	2008	
West and Central Africa	2.2	2.5	19	16	
East and Southern Africa	2.0	1.0	17	7	
Caribbean and Central, Southern and Tropical Latin America	1.7	0.5	1.2	20	
Andean Latin America	1.9	0.5	11	20	
North Africa and Middle East	4.3	4.2	70	6	
Central Asia and Central Europe	2.5	3.2	1.2	1	
Eastern Europe	3.5	11.7	11	3	
Southeast Asia	2.1	5.9	30	5	
South Asia	4.0	2.5	75	32	
East Asia and Oceania	2.4	0.9	30	10	







In 2008			
Reductions in unsafe therapeutic	injection prevented:		
<ul><li>HIV: 432,000 infections</li></ul>			
<ul> <li>HBV: 5,200,000 infections</li> </ul>			
Use of auto disable syringes for ir	mmunization prevented:		
- HIV: 3,000 infections			
<ul><li>HBV: 151,000 infections</li></ul>			
<ul><li>HCV: 36,000 infections</li></ul>			
<ul> <li>nosocomial bacteraemia:</li> </ul>	86,000 infections		
<ul><li>injection site abscesses:</li></ul>	26,500 cases		
<ul> <li>806,000 HBV infections from unsafe Vaccination</li> </ul>	injections prevented by HBV		
SIGN	World Health Organization		

# Are we done with injection safety? NOT YET.... • AD syringes: a success in immunization services. • RUPs and SIPs injection devices for therapeutic injections are widely available but still out of the reach of developing countries • Unmet needs in the curative services: - The number of injections is much higher - Unsafe practices are highly prevalent - The informal and private sectors are difficult to reach



