



# “Managing Communicable and Non Communicable Diseases Among Employees”



Dr. Corey Forde  
Consultant Internal Medicine and  
Infectious Diseases  
Head of Infection Control Department  
(QEH)

Dollar exchange rate easing credit strains  
MARKET JITTERS spending power commodities  
mutual fund CREDIT CRUNCH  
endorse stimulus package CAPITAL INVESTMENT  
slow revival

# Financial crisis

dollar weakens STOCK MARKET  
analysts Downturn Inflation  
slump confidence wobbles  
Economic disaster  
Shares down  
Stocks tumble  
anxiety deep  
survival in days  
risk

## World News

### Nuclear catastrophe!



# Non-Communicable Diseases and Occupational Health Opportunities and **Challenges**



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# Non-Communicable Diseases and Occupational Health **Opportunities** and Challenges



The need to know.....

Reports that say that something hasn't happened are always interesting to me, because as we know, there are known knowns; there are things we know we know.

We also know there are known unknowns; that is to say we know there are some things we do not know. But there are also unknown unknowns - the ones we don't know we don't know...

- Donald Rumsfeld



# What is Occupational Health??



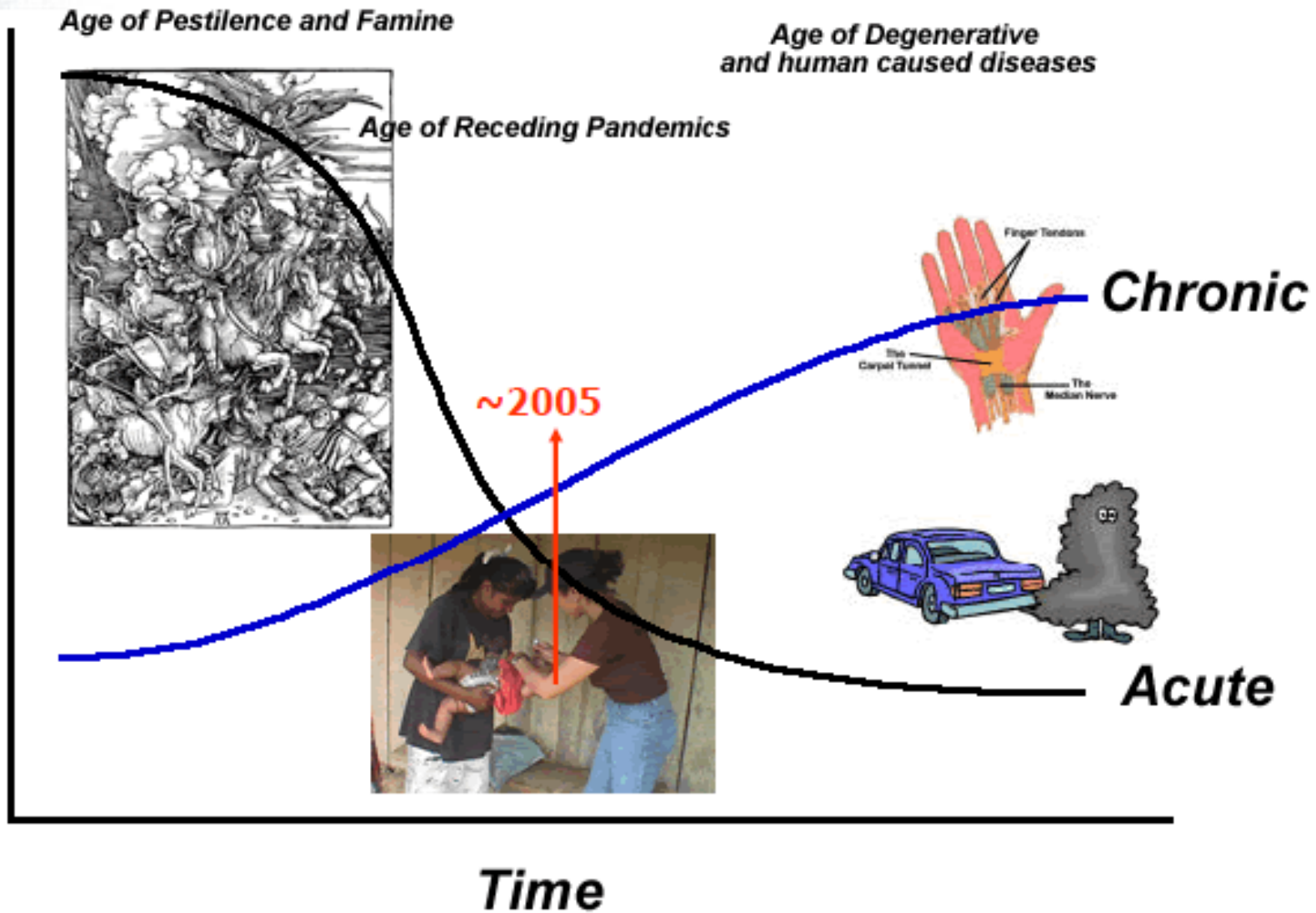
- Overall health, safety and well-being of employees – at all levels
- • Providing a safe physical working environment
- • Protecting against disease transmission
- • Promoting confidence in their own safety
- • Education, transparency, access to answers





# The Epidemiologic Transition

**Incidence of Disease/Mortality**



# Two approaches to define diseases:


Classification of diseases according to their:

1. Causation:

- Non-communicable
- Communicable

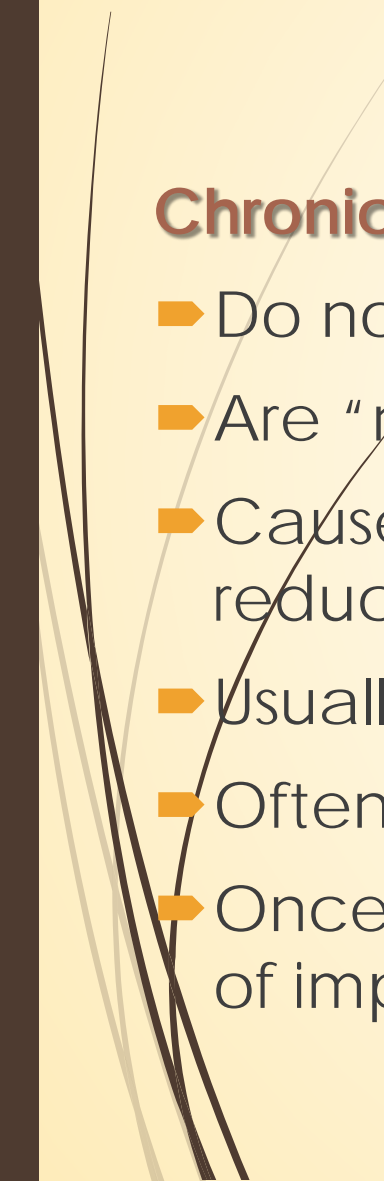
2. Impact on the Individual/Health System:

- Acute
- Chronic



# Non-Communicable Disease (NCD): Definition

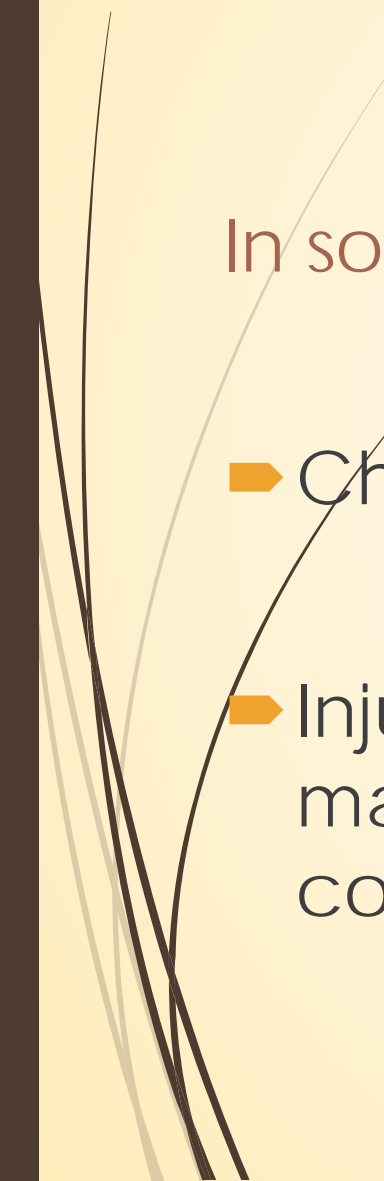
## **Chronic conditions are characterized by the following:**

- ▶ Do not result from an (acute) infectious process
  - ▶ Are “not communicable”
  - ▶ Cause premature morbidity, dysfunction, and reduced quality of life
  - ▶ Usually develop and progress over long periods
  - ▶ Often initially insidious
  - ▶ Once manifested there is usually a protracted period of impaired health
- 



# Non-Communicable Disease (NCD): Extended Definition


In some definitions, NCDs also include:

- ▶ Chronic mental illness
  - ▶ Injuries, which have an acute onset, but may be followed by prolonged convalescence and impaired function
- 

# Types of NCDs

1. Cardiovascular disease (Coronary heart disease, Stroke)
2. Cancer
3. Chronic lung disease
4. Diabetes
5. Chronic neurologic disorders (Alzheimer's and other dementias)
6. Arthritis/Musculoskeletal diseases





# Half-Truths and Misunderstandings

HALF-TRUTH

Everyone  
has to die of  
something



# Half-Truths and Misunderstandings: Reality



Name	Jonas Justo Kassa
Age	65
Country	United Republic of Tanzania
Diagnosis	Diabetes

**Reality: death is inevitable but it does not need to be slow, painful, or premature**



# Non-Modifiable Risk Factor

- A risk factor that **cannot** be reduced or controlled by intervention, for example:
  - Age
  - Gender
  - Race
  - Family history (genetics)



# Modifiable Risk Factor

- A risk factor that **can** be reduced or controlled by intervention, thereby reducing the probability of disease.
- The WHO has prioritized the following four:
  - **Physical inactivity**
  - **Tobacco use**
  - **Alcohol use**
  - **Unhealthy diets**



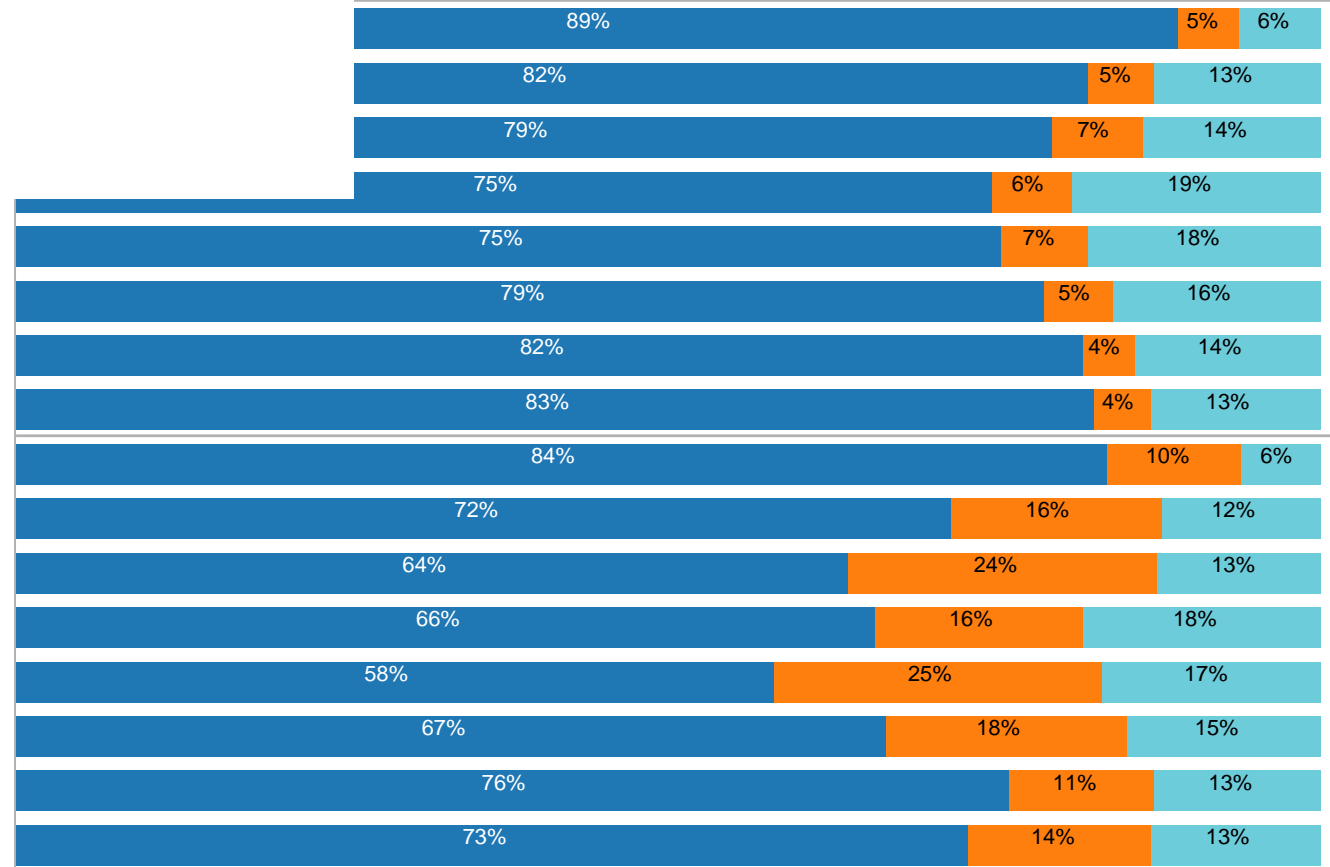


# Real Facts: VIDEO



# NCDs ARE RESPONSIBLE FOR 83% OF ALL DEATHS IN THE AMERICAS

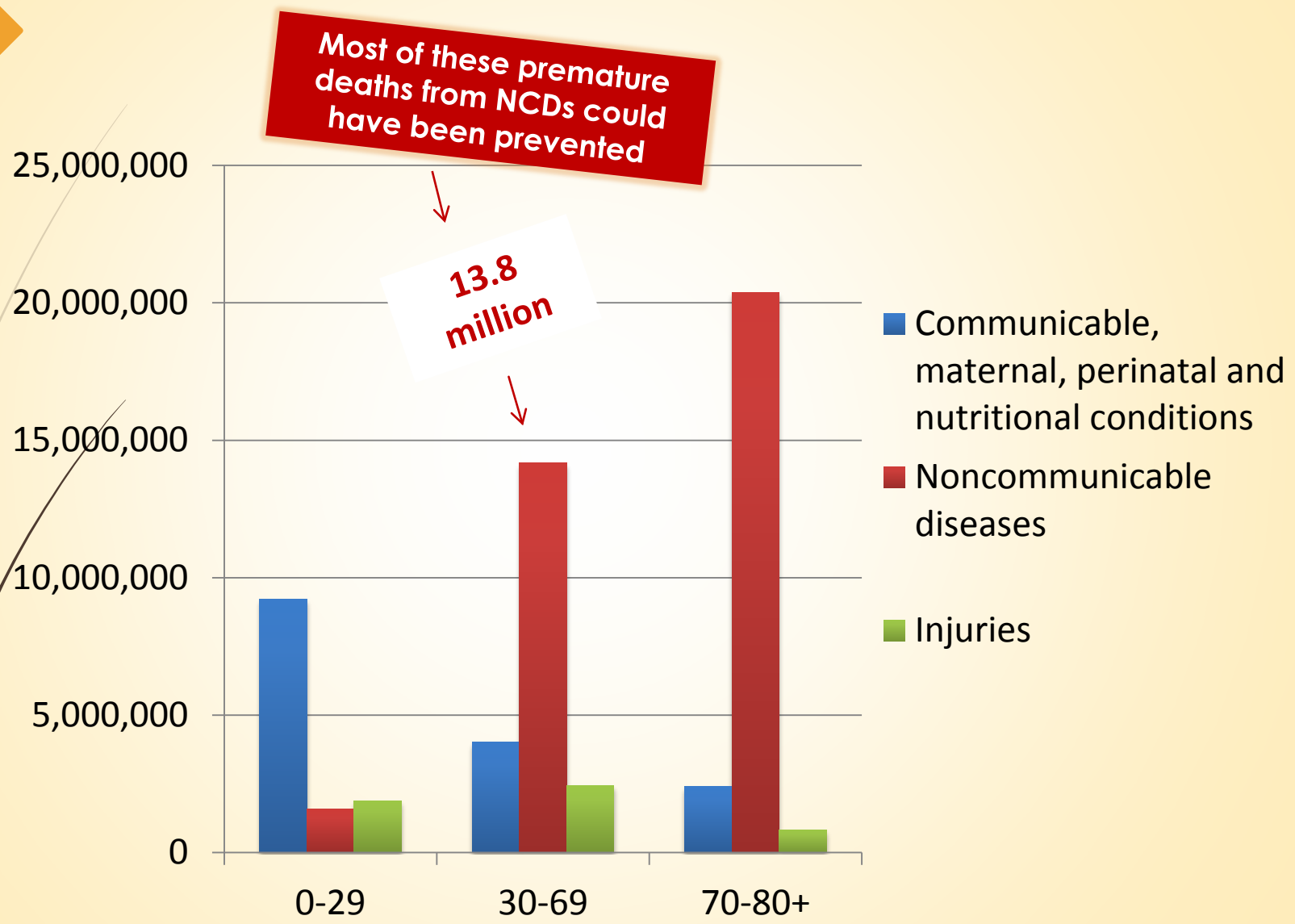
GBD groups



Source: PAHO/WHO Regional Mortality Information System, 2013. slide courtesy of Dr. Jose Escamilla, PAHO/WHO.

**In 2011, 13.8 million people died around the world from NCDs between the ages of 30 and 70: more than 85% of these deaths occurred in developing countries**

Deaths in 2011



Crop Over Season  
Enjoy Yourself !!!!!!!!!!!!!





# Harmful use of Alcohol

- ▶ Alcohol is the **leading risk factor** among **15-49** year olds in 26 countries:
- ▶ Antigua and Barbuda, Argentina, Bahamas, **Barbados**, Belize, Bolivia, Brazil, Canada, Colombia, Costa Rica, Dominica, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Mexico, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, Saint Vincent and the Grenadines, United States, Uruguay, Venezuela

# MARKETING and Risk Factors of NCDs

“Coming Together”



“Be OK”





"Before" 

Now 

O Ministério da Saúde adverte:  
**FUMAR CAUSA  
CÂNCER DE LARINGE.**



**NEVADA**  
AMERICAN BLEND

La muerte súbita es una de las principales causas de mortalidad en el primer año de vida.

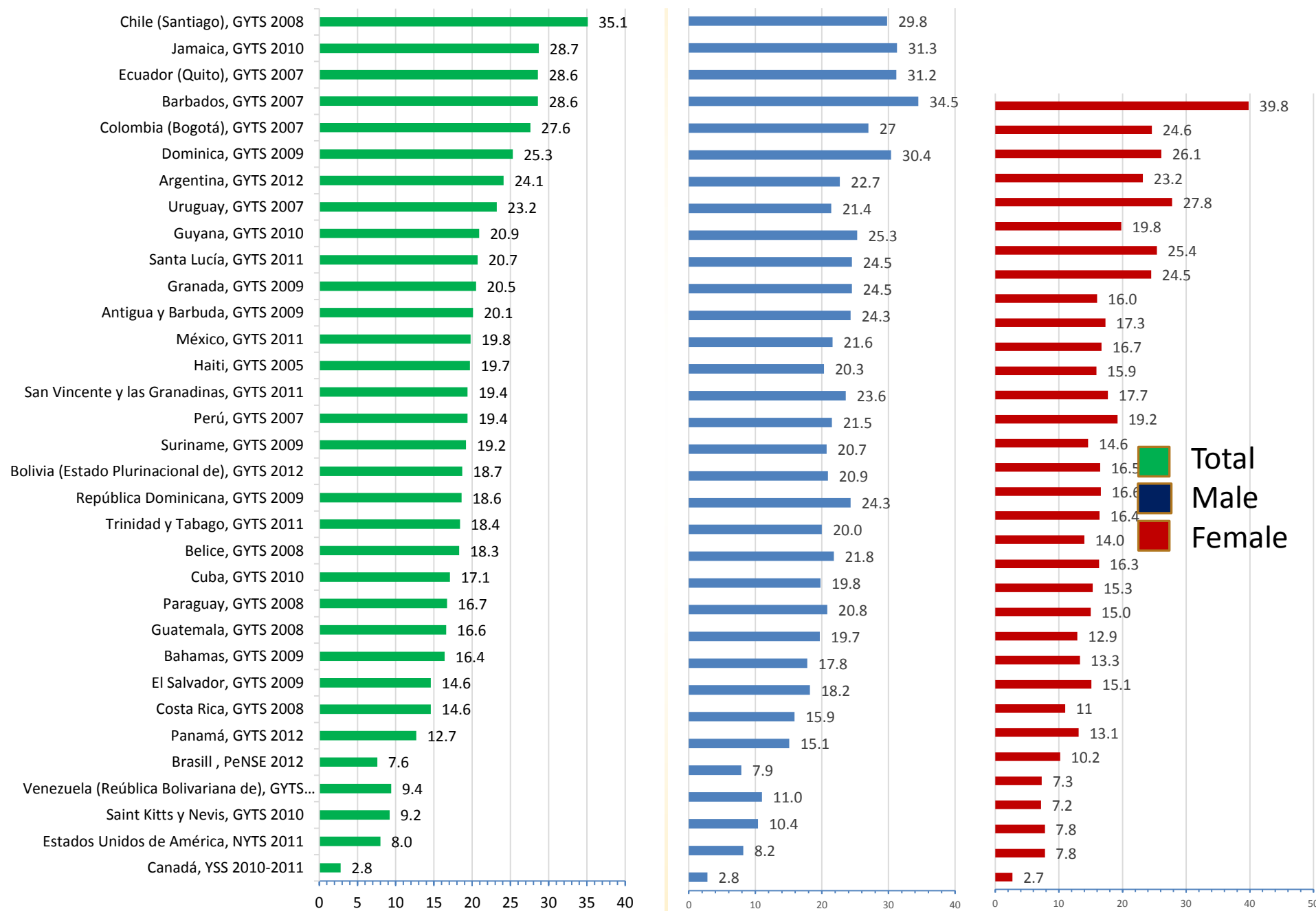
¿Quieres dejar de fumar?  
[www.puedodejar.com](http://www.puedodejar.com)  
0800 4866 (HUMO)

PRODUCTO TABACO MSP

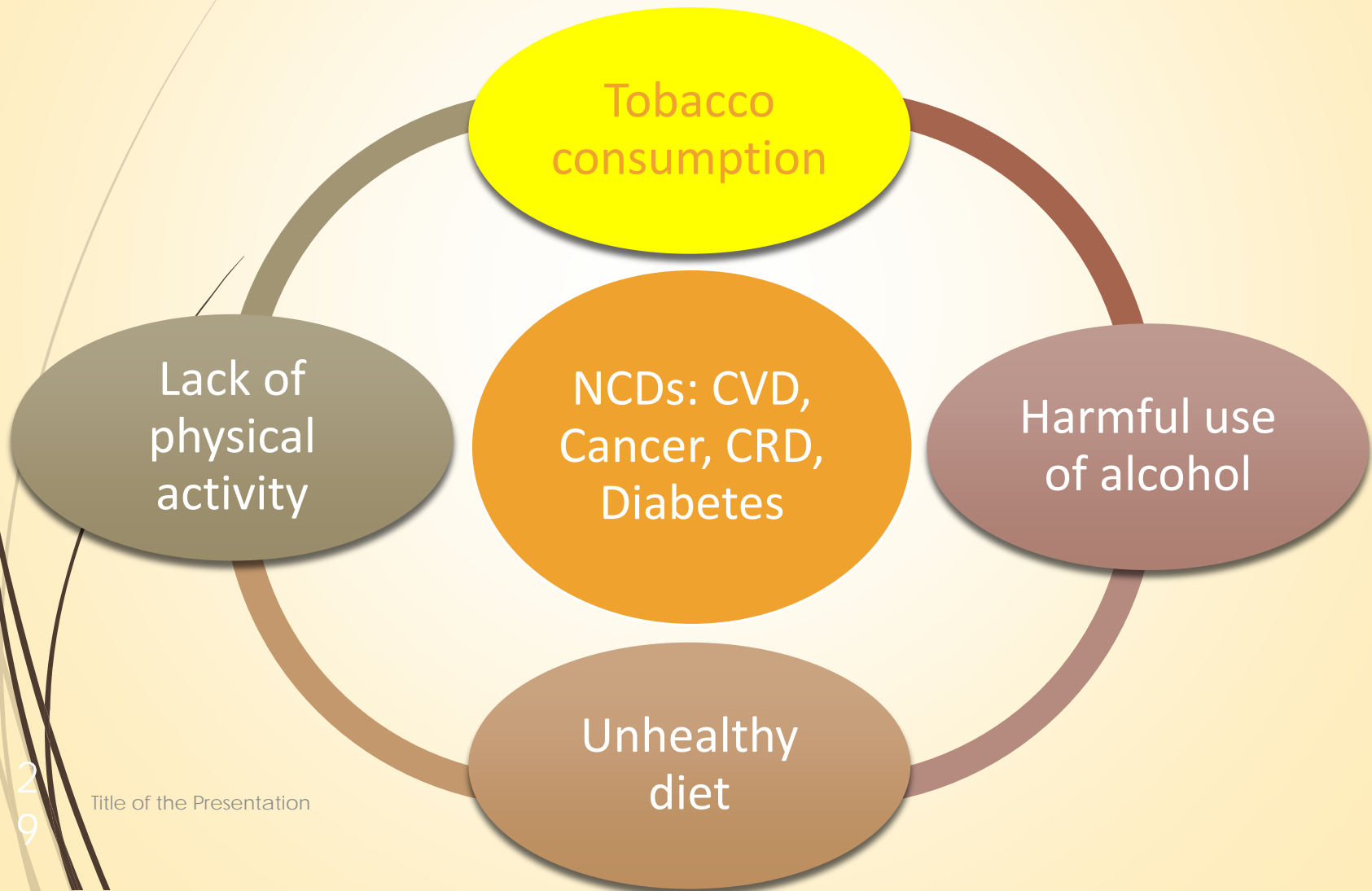


**Fumar produce  
enfermedades  
cardiovasculares**

# Current prevalence of tobacco smoking in young people

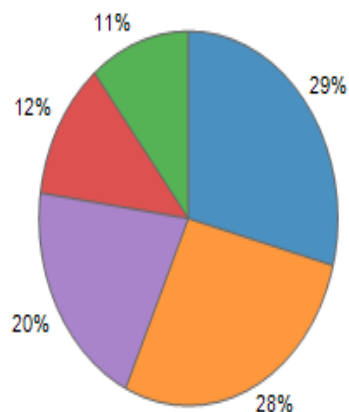


# Protective actions: Addressing NCD Risk Factors

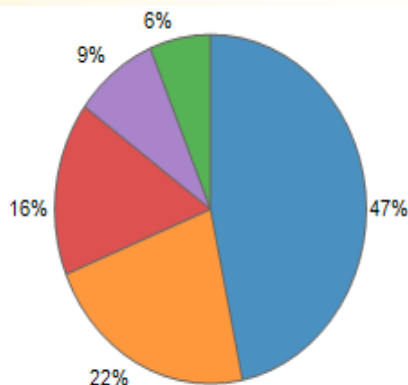


# Cardiovascular Disease Mortality by Major Causes: Trends Over Time in the Americas

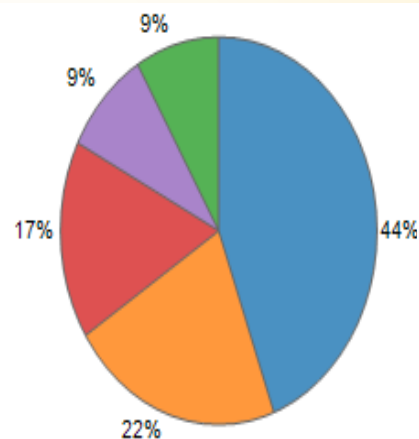
1995



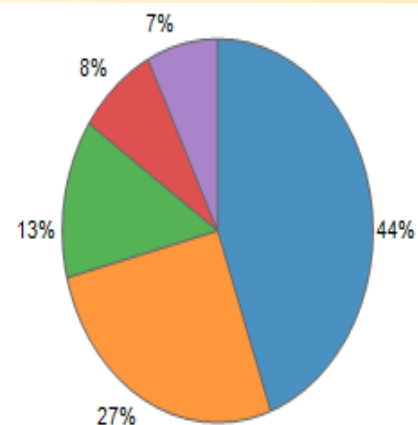
2000



2005



2010

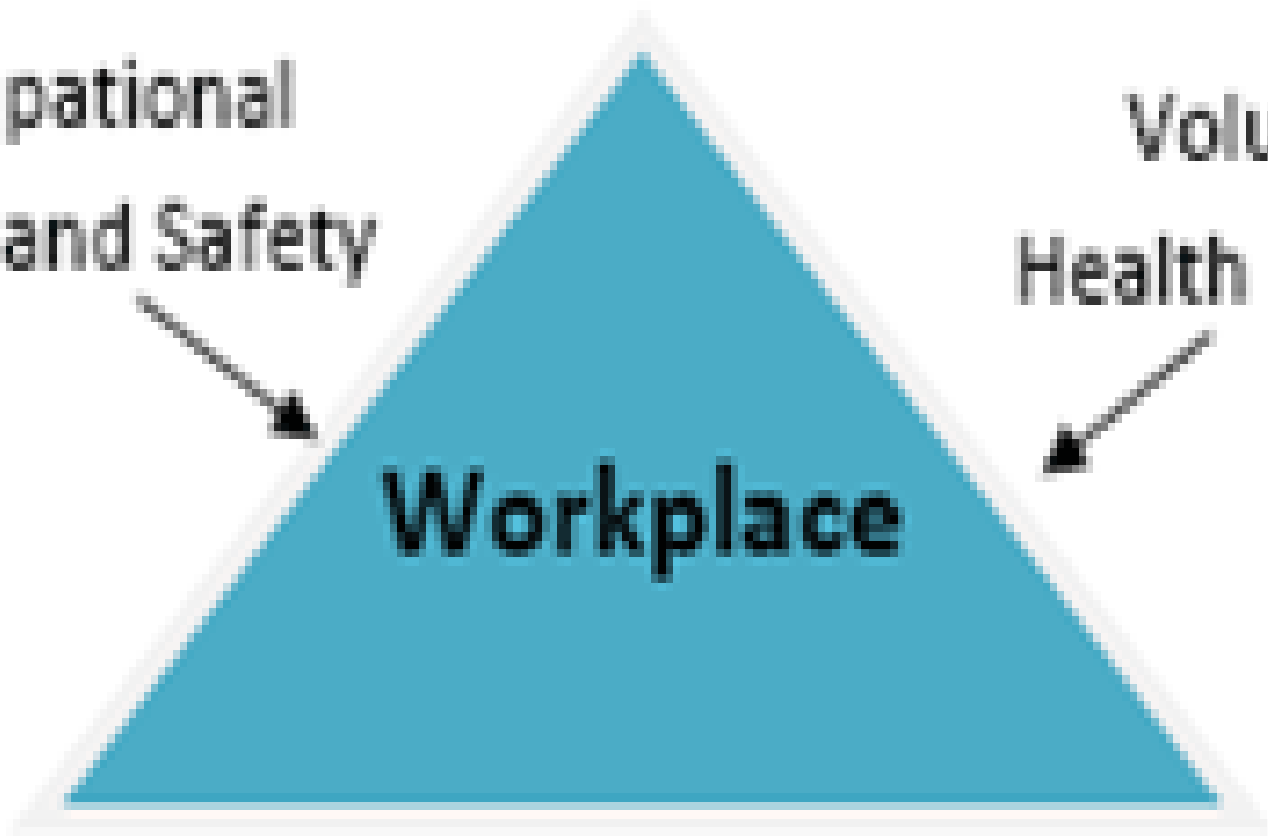


## Groups of CVD causes of deaths

- Ischaemic heart diseases (I20-I25)
- Cerebrovascular diseases (I60-I69)
- Heart failure (I50)
- Others (I00-I09, I26-I45, I46, I47-I49, I51, I70, I71-I99)
- Hypertensive diseases (I10-I14)

Occupational  
Health and Safety

Voluntary  
Health Practices



**Workplace**



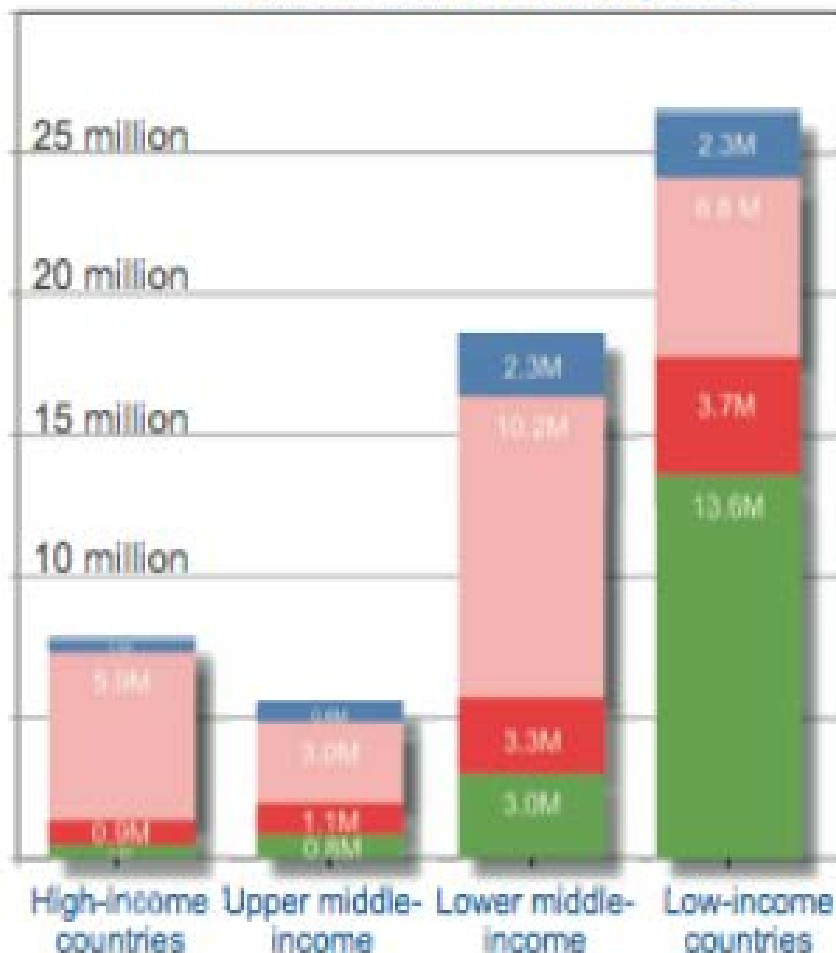
Organizational  
Culture

90% of world's people dying prematurely from non-communicable diseases are living in developing countries

fact

2

Total number of deaths (2004)



Annually, 8.1 million premature deaths from non-communicable diseases occur in developing

Source:

THE GLOBAL BURDEN OF DISEASE

- Group III - Injuries
- Group II - Other deaths from non-communicable diseases
- Group II - Premature deaths from non-communicable diseases (below the age of 60), which are preventable
- Group I - Communicable diseases, maternal, perinatal and nutritional conditions



# Infectious Disease in the Workplace

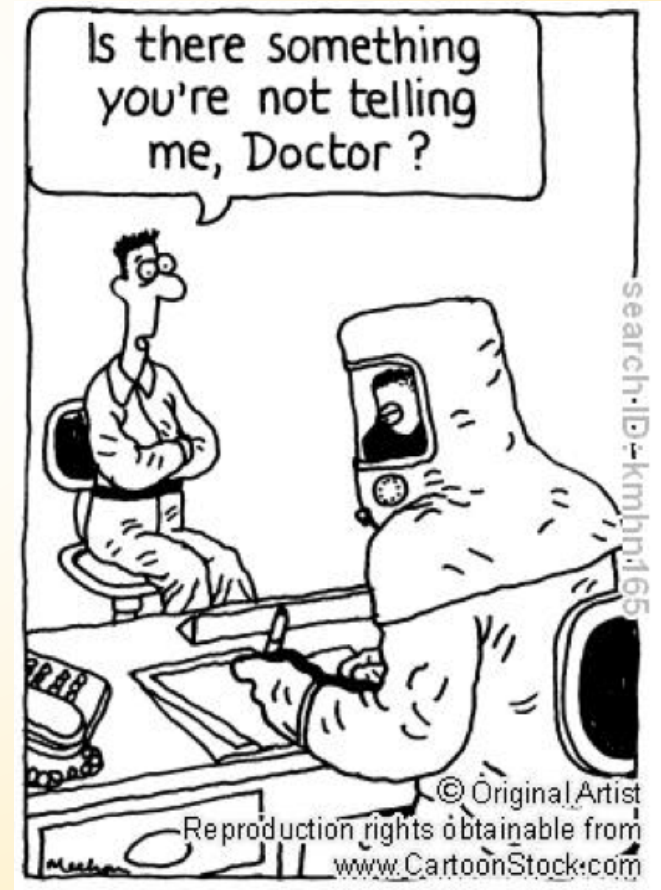
## "People at Risk"



# NCD vs CD

How do they differ regarding:

- Infectiousness?
- Risk of Disease?





1970



2015



# IMPACT OF INFECTIOUS DISEASES

- ▶ Infectious diseases are not only spreading faster, they appear to be emerging more quickly than ever before.
- ▶ Since the 1970s, emerging diseases have been identified at a rate of one or more per year.
- ▶ During this same time period, the World Health Organization (WHO) has verified more than 1,100 epidemic events worldwide.
- ▶ The spread of infectious disease is not just a public concern, but also a business risk.
- ▶ Disease in the community will inevitably affect the workplace.

# SARS: The First Emerging Infectious Disease Of The 21st Century

## SARS Cases 19 February to 5 July 2003

Total: 8,439 cases, 812 deaths,  
30 countries in 7-8 months

Canada (243)	Europe: 10 countries (38)	Russian Fed. (1)	
USA (72)		Mongolia (9)	Korea Rep. (3)
		China (5326)	Macao (1)
		Hong Kong (1755)	Taiwan (698)
Colombia (1)	Kuwait (1)	Viet Nam (63)	Malaysia (5)
	India (3)	Singapore (206)	Indonesia (2)
Brazil (3)			Philippines (14)
			Thailand (9)
	South Africa (1)	Australia (5)	
		New Zealand (1)	

**No infectious disease has spread so fast and far as SARS did in 2003**





# ECONOMIC IMPACT OF INFECTIOUS DISEASES

In 2003 the most severe economic impact from SARS occurred in the travel and tourism industry, with airlines being particularly hard hit.

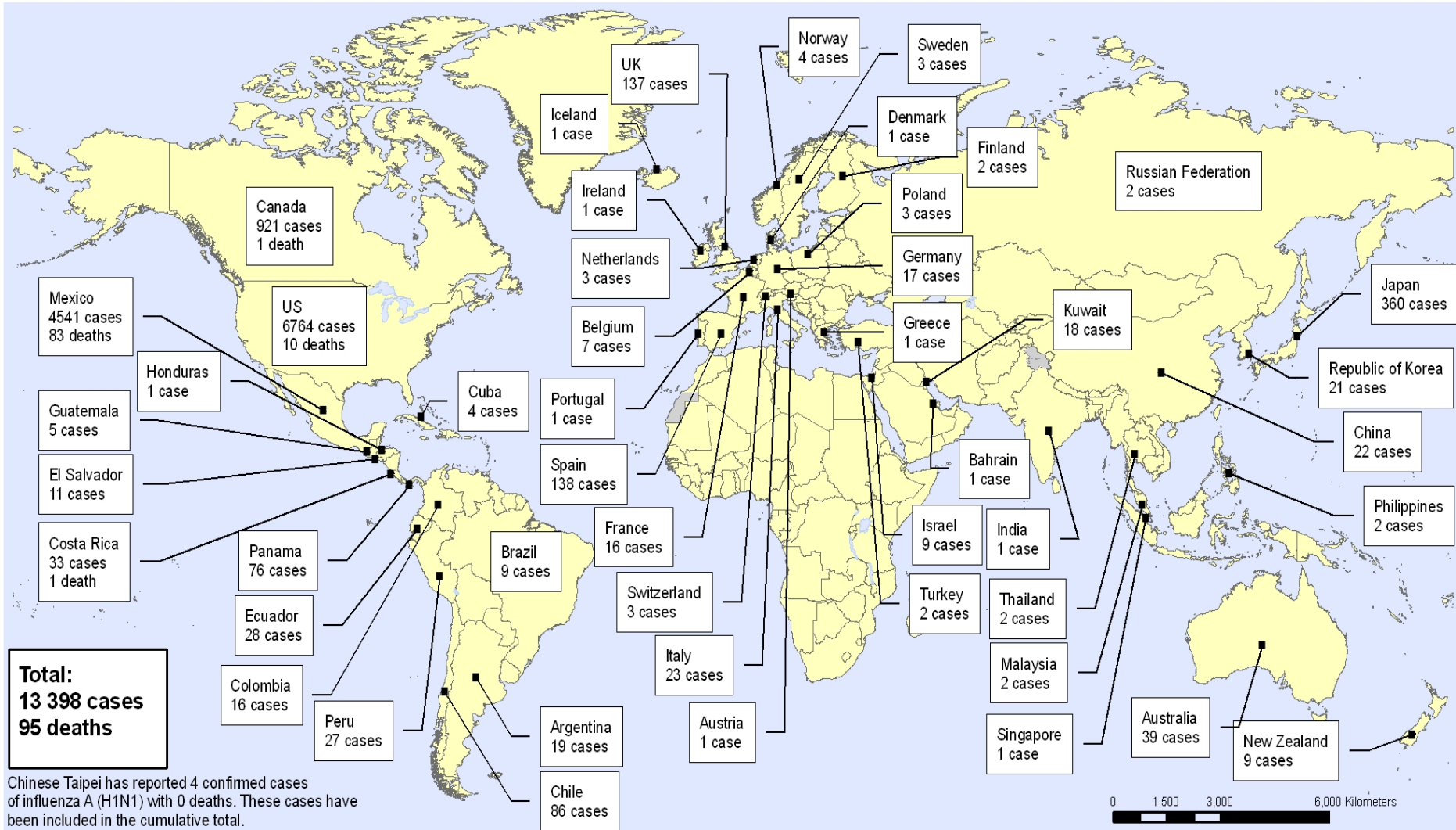
Decline in airline traffic reached 40-50%.

During its four month run in Toronto, SARS killed fewer than 50 people, yet travel to and from Toronto plummeted overnight and ultimately cost

1. the city's hotel industry more than CAN\$125 million.
2. More than 15 thousand people were quarantined in their homes for ten days and many businesses (including banks) had to designate essential employees to telecommute.
3. In the end, SARS is estimated to have reduced Canada's GDP by 0.6%.

# New Influenza A (H1N1), Number of laboratory confirmed cases and deaths as reported to WHO

Status as of 27 May 2009  
06:00 GMT



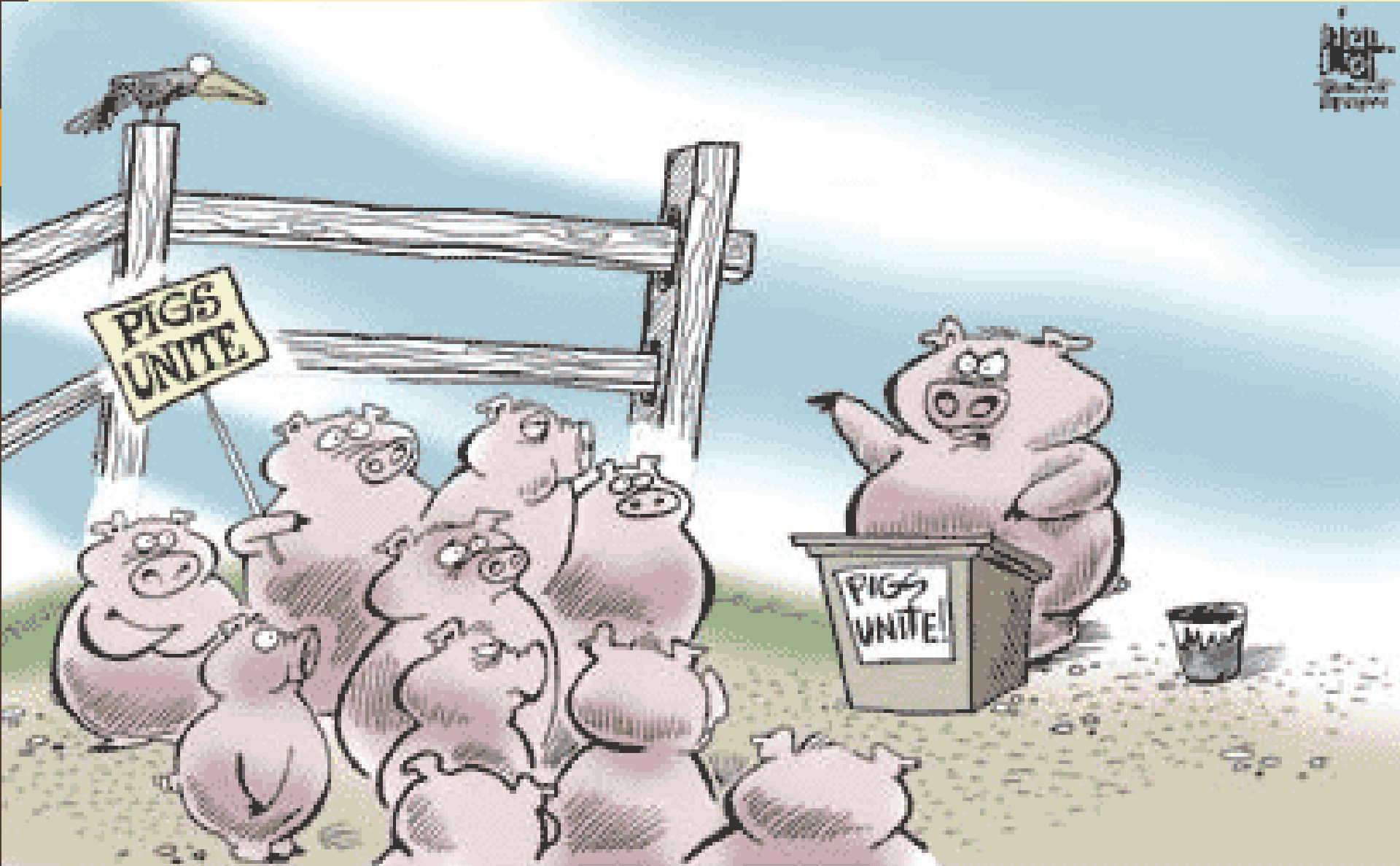
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization  
Map Production: Public Health Information and Geographic Information Systems (GIS)  
World Health Organization



© WHO 2009. All rights reserved

Map produced: 27 May 2009 06:30 GMT



THE TURKEYS HAVE BIRD FLU. THE COWS HAVE MAD COW DISEASE. I'M TELLING YOU, BOYS... UNLESS WE WANT TO SEE MORE HAM SERVED ON THANKSGIVING, WE'RE GOING TO HAVE TO GET OUR OWN DISEASE!

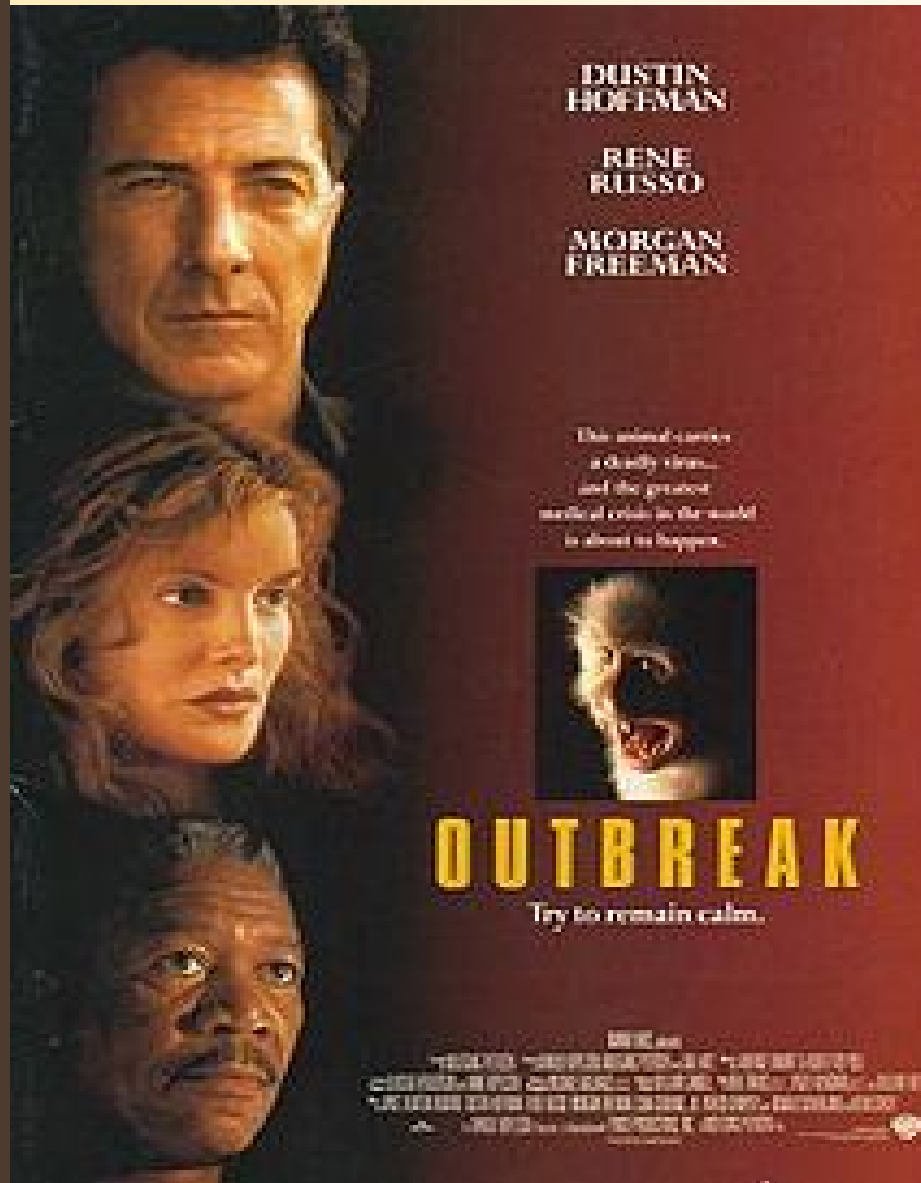


# Impact on Work

- ▶ In Barbados in the public and private sector, the damage can be great.....



# Don't Panic but be Prepared




**DUSTIN HOFFMAN**

**RENE RUSSO**

**MORGAN FREEMAN**

This animal carries a deadly virus... and the greatest medical crisis in the world is about to happen.



**OUTBREAK**

Try to remain calm.

WARNER BROS. PRESENTS  
A WARNER BROS. PICTURES PRODUCTION  
"OUTBREAK" STARRING DUSTIN HOFFMAN, RENE RUSSO, MORGAN FREEMAN, AND  
"OUTBREAK" CASTING BY JUDY ROSS  
"OUTBREAK" COSTUME DESIGNER  
"OUTBREAK" HAIR AND MAKEUP  
"OUTBREAK" PRODUCTION DESIGNER  
"OUTBREAK" EXECUTIVE PRODUCERS  
"OUTBREAK" PRODUCED BY  
"OUTBREAK" WRITTEN BY  
"OUTBREAK" DIRECTED BY



ON MARCH 11, 2008 THE GOVERNMENT SEALED OFF AN APARTMENT COMPLEX IN LOS ANGELES.

THE RESIDENTS WERE NEVER SEEN AGAIN.

NO DETAILS.  
NO WITNESSES.  
NO EVIDENCE.

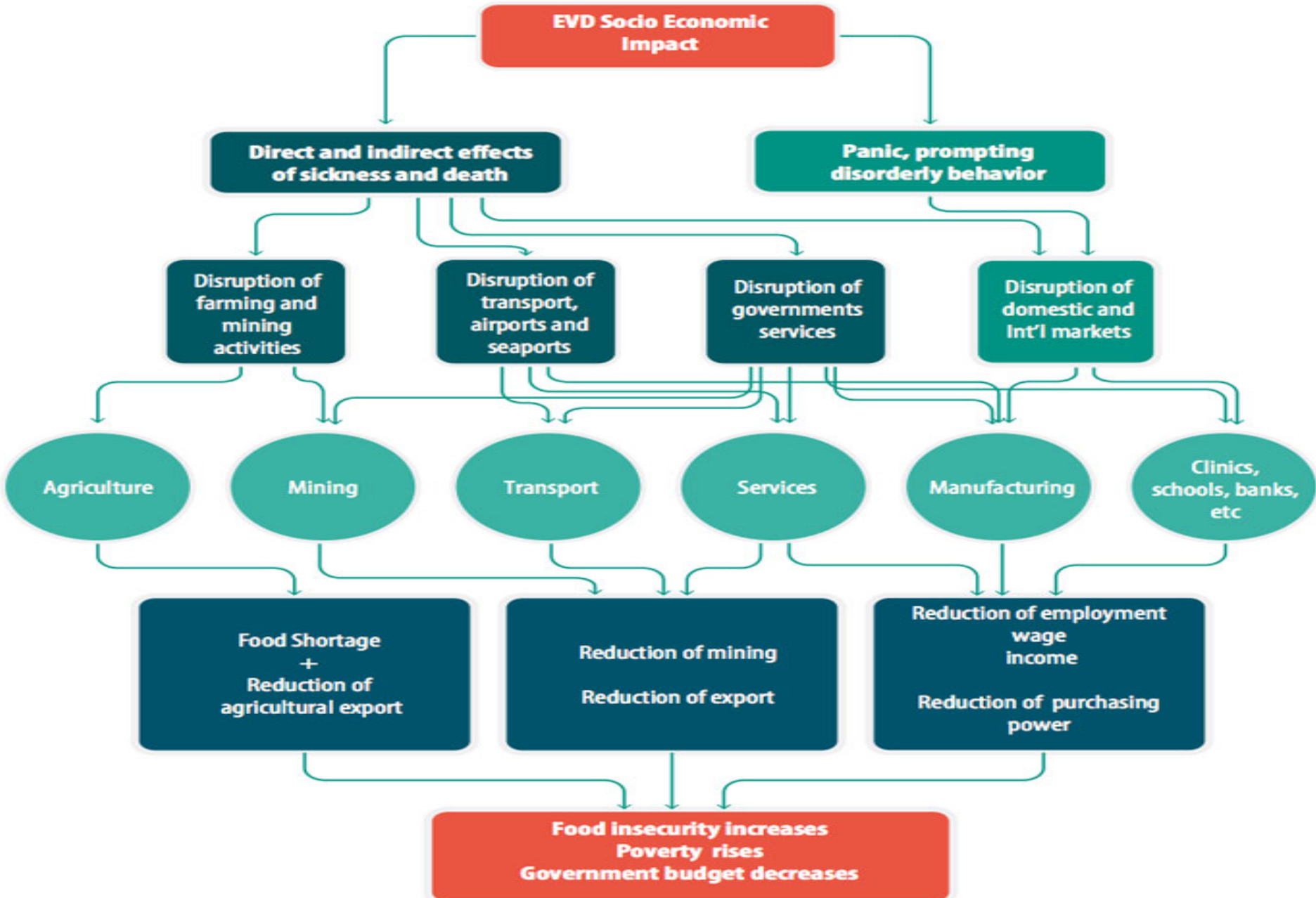
UNTIL NOW.

**QUARANTINE**

WARNER BROS. PRESENTS  
A WARNER BROS. PICTURES PRODUCTION  
"QUARANTINE" STARRING JOHN CUSACK, JESSICA ALBA, AND  
"QUARANTINE" CASTING BY  
"QUARANTINE" COSTUME DESIGNER  
"QUARANTINE" HAIR AND MAKEUP  
"QUARANTINE" PRODUCTION DESIGNER  
"QUARANTINE" EXECUTIVE PRODUCERS  
"QUARANTINE" PRODUCED BY  
"QUARANTINE" WRITTEN BY  
"QUARANTINE" DIRECTED BY

IN THEATERS THIS OCTOBER

# THE EBOLA SCARE



### ► Keeping a watchful eye on South Korea's deadly MERS outbreak

By Joan Spitrey

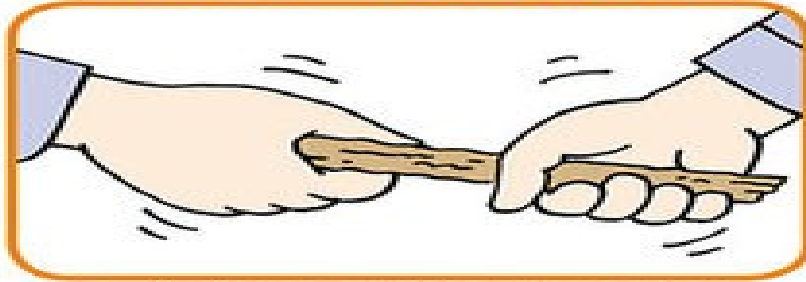
South Korea reported its first confirmed case of Middle Eastern respiratory syndrome, or MERS, May 20. As of June 12, there have been 126 confirmed cases with 11 deaths. More than 3,600 contacts are being monitored in an effort to contain the spread.

- This is the first major outbreak of this little-known virus outside of the Arabian peninsula. One lesson learned from the recent Ebola outbreak in the U.S. is that the spread of any disease is just an airplane ride away from anyone's doorstep

# STOP THE SPREAD OF GERMS!

## FOLLOW THESE SIMPLE RULES!

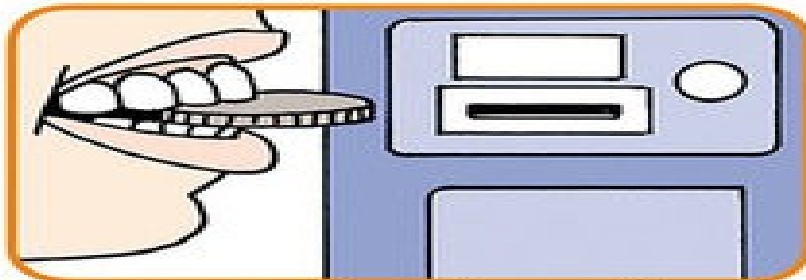
### IN THE WORKPLACE:



1. Avoid bare skin-to-skin contact! Shake hands using a stick.



2. Don't sneeze into your hands: whenever possible, sneeze into the back pocket of a co-worker.

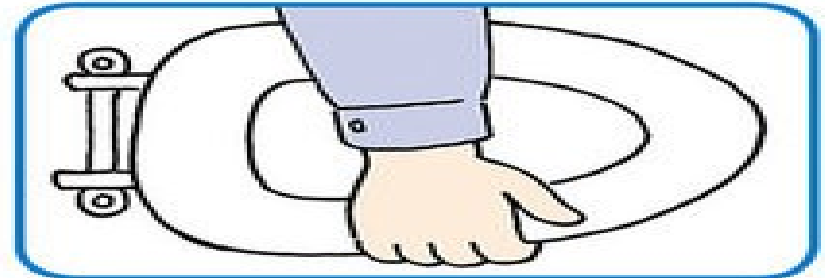


3. Do not touch vending machines. Insert coins with your mouth.

### IN THE RESTROOM



1. Avoid contact with the faucet. Wash hands wearing gloves.



2. Toilet seats breed germs. Carry your own toilet seat with you wherever you go.



3. Never flush using your hands. Push the handle with your foot. Then wash your foot thoroughly.

# Hand Hygiene

The simplest and most effective method of preventing the spread of infection



Estimate how often YOU  
clean your hands after  
touching contaminated  
surfaces at work?

1. 25%
2. 50%
3. 75%
4. 90%
5. 100%



Now, estimate how often YOUR CO-WORKERS clean their hands after touching contaminated surfaces at the work?

1. 25%
2. 50%
3. 75%
4. 90%
5. 100%





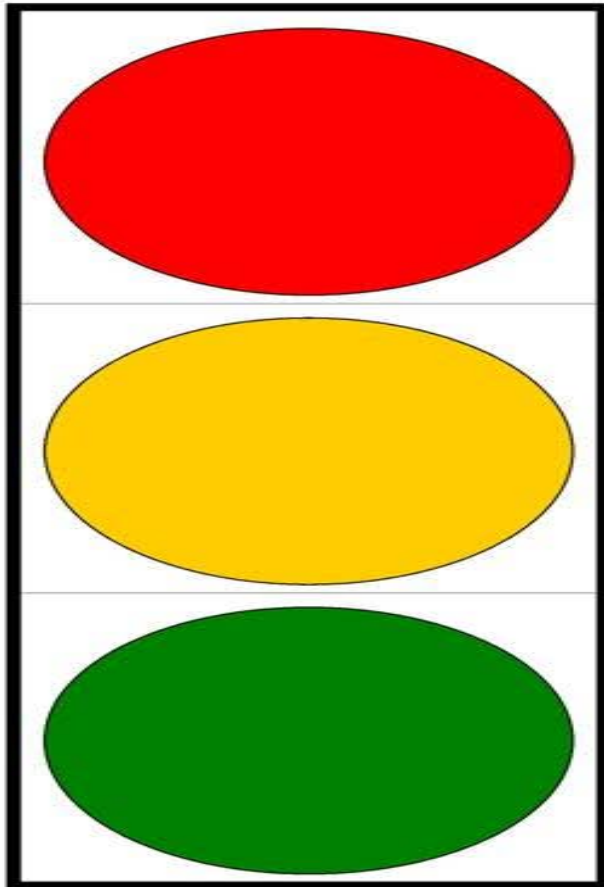


Providing hygiene facilities  
such as toilets and  
change rooms

How can we  
achieve this in  
your  
workplace ?



# PATIENT SAFETY



**STOP!**

**THIS IS A PATIENT  
CARE AREA!**

**THINK!**

**YOU NEED TO SANITIZE  
YOUR HANDS!**

**GO!**

**TO THE NEAREST  
DISPENSER!**

**WE'RE IN THIS TOGETHER!**

For more information email the Infection Control Department [HICO@qeh.gov.bb](mailto:HICO@qeh.gov.bb)

# good food is

good for... **the soil**  
biodiversity  
**the workers**  
**animal welfare**  
**the local economy**  
**the air, rivers & oceans**  
natural resources - water, phosphates, fuel

& **good for us**







When we compromise food safety its like starting a war with the microbes.

# Dengue and CHIK-V



These little suckers transmit some of the world's nastiest diseases.



# Impact on Work

- ▶ In Barbados in the public and private sector, the damage can be great.....



**Do you know** which  
adult vaccines  
you need?

Take the quiz!



**DON'T WAIT.  
VACCINATE!**

## Immunization of Health-Care Personnel

### Recommendations of the Advisory Committee on Immunization Practices (ACIP)

# Healthcare Personnel!

SAFER · HEALTHIER · PEOPLE™

## Are your vaccinations up-to-date?

You should be immune to:

**PROTECT  
YOUR  
PATIENTS.**

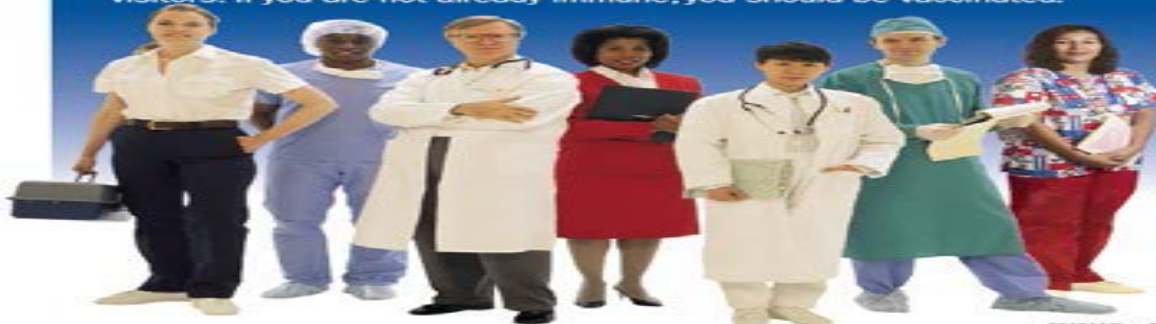
**PROTECT  
YOUR  
FAMILY.**

**PROTECT  
YOURSELF.**

**GET  
VACCINATED!**



- ▶ **INFLUENZA**  
You need a flu vaccination every year. Unvaccinated healthcare personnel can spread influenza to patients and are a key cause of influenza outbreaks among patients and long-term care residents. You cannot get the flu from the vaccine.
- ▶ **HEPATITIS B**  
5%–10% of acute infections lead to chronic infection, and these lead to liver damage (cirrhosis), liver cancer, or death. Hepatitis B vaccine protects nearly all who are in contact with blood, body fluids, or used needles.
- ▶ **MEASLES/MUMPS/RUBELLA (MMR)**  
If you are not already immune to MMR, you should be vaccinated. Even mild or undetectable rubella disease can cause fetal anomalies.
- ▶ **TETANUS/DIPHTHERIA/PERTUSSIS**  
You need a booster every 10 years. You may need a dose now if you have direct patient contact or are injured.
- ▶ **VARICELLA (CHICKENPOX)**  
Varicella can be transmitted in hospitals by patients, staff, and visitors. If you are not already immune, you should be vaccinated.



***Hepatitis A  
and  
Hepatitis B  
are  
preventable  
by vaccine.***

**STATES WITH CONFIRMED MEASLES CASES**



Message to you and the working staff.....

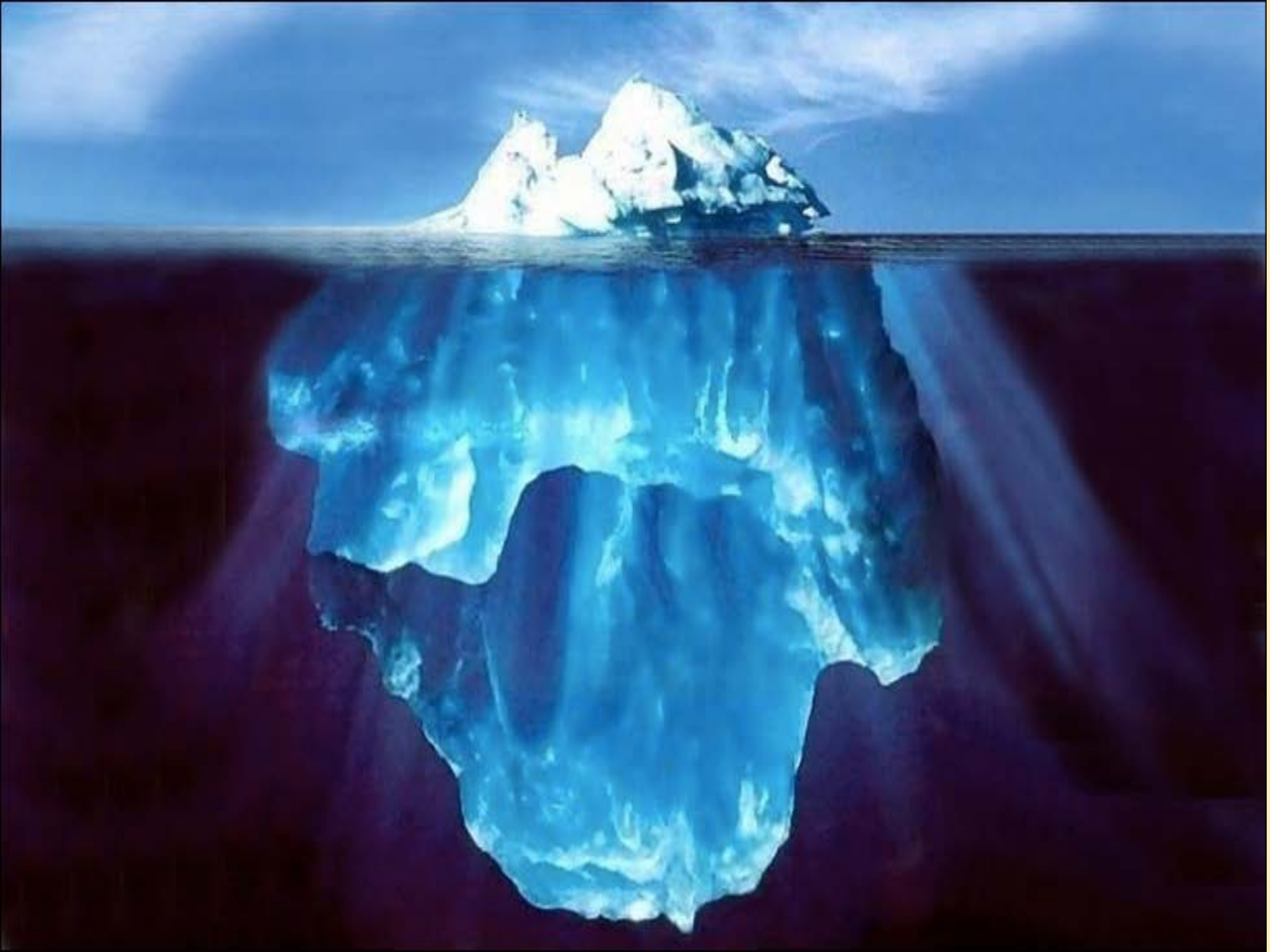
## Unhealthy workplace?



**Protect yourself! Get your flu shot.**

# A true story

- ▶ 30-year-old Sarah Smith arrived in Chicago on an AA from New Delhi, India.
- ▶ Sarah grabbed a quick dinner at an airport restaurant as she traveled from O'Hare's international terminal where she boarded a flight to San Francisco.
- ▶ She worked at a Bank as a Teller. She felt ill at work and told boss who advice her to take cold medicine and tamiflu since he also has the flu and come to work
- ▶ About a week after the flight, Sarah got worse and went to the Stanford University Medical Center emergency department with a fever, chest pains and coughing up blood.
- ▶ She was diagnosed with the full-blown version of TB



# The Work Place:- Incubator For Infectious Diseases

- Close quarters
- Exposure to poor personal health habits (failure to wash hands and inadequate practices to reduce spread of disease through coughing and sneezing),
- The rapid spread of disease through international travel all lead to the increased likelihood of disease being introduced into the work environment.

**This is especially true in organizations that may have inadequate environmental/engineering controls or tolerate employees reporting to work when they are sick.**





# Work Place And Infectious Diseases Incubator For Diseases

Spread of an infectious disease in the workforce could produce

1. High Incidences Of Absenteeism
2. Stress And Productivity Loss Among Workers
3. Further Lead To Economic Consequences Affecting Business Continuity And Even Liability.

# OCCUPATION HEALTH AND SAFETY AND INFECTION CONTROL

- Organizations need to be aware and prepared for these events
- Available hand sanitisers at strategic points
- Develop and test a medical or wellness plan that includes vaccinations
- Most business continuity plans **MUST** address the steps needed to mitigate the spread of an infectious diseases

# Presenteeism: A Public Health Hazard

*Eric Widera, MD<sup>1,2,4</sup>, Anna Chang, MD<sup>1,2</sup>, and Helen L. Chen, MD<sup>1,3</sup>*

## RESEARCH LETTER

### Why Physicians Work When Sick

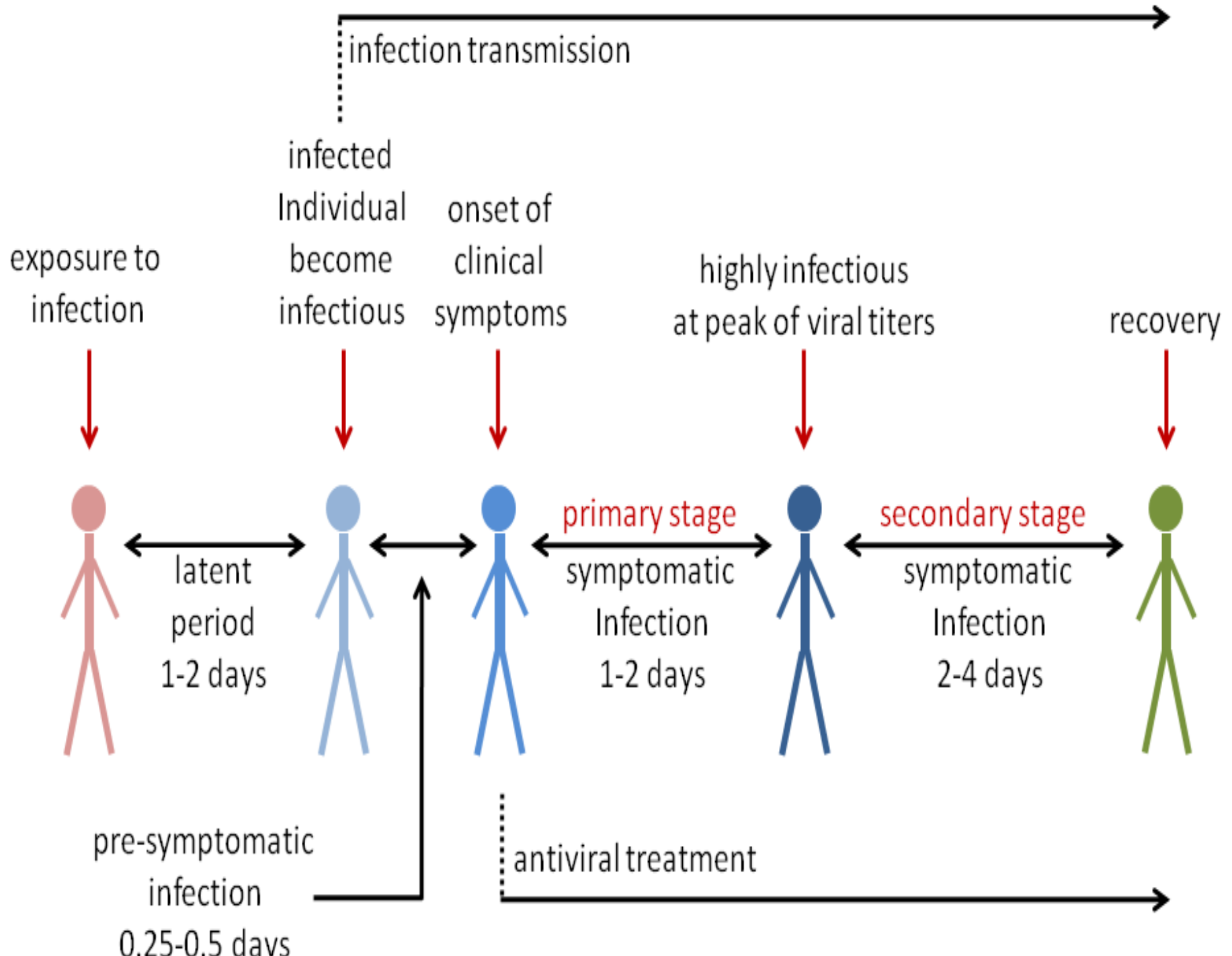
Table. Reasons Given by Resident Physicians for Working When Ill<sup>a</sup>

Reason for Working When Ill	Resident Physicians, No. (%)				
	All (n=77)	First-Year (n=37)	Second-Year (n=40)	Male (n=43)	Female (n=34)
Did not want to force colleagues to cover	44 (57)	23 (62)	23 (57)	24 (56)	20 (59)
Felt pressured to repay colleagues for coverage	6 (8)	0	1 (3)	4 (9)	2 (6)
Afraid colleagues would think they were "weak"	9 (12)	7 (19)	4 (10)	3 (7)	6 (18)
Felt responsibility to care for patients	43 (56)	17 (46)	24 (60)	21 (49)	22 (65)

<sup>a</sup>Data are from a convenience sample of resident physicians attending the 2010 annual meeting of the American College of Physicians, Illinois chapter. A total of 77 of 150 residents reported coming into work sick at least once in the previous year. Differences between program years and sex were not statistically significant at the  $P < .05$  level.

## The Art of Calling In Sick—Or Not

Jena A et al Arch Intern Med 2012;172:1107+



# STIGMA

- ▶ Represents a major barrier to fighting infectious diseases internationally

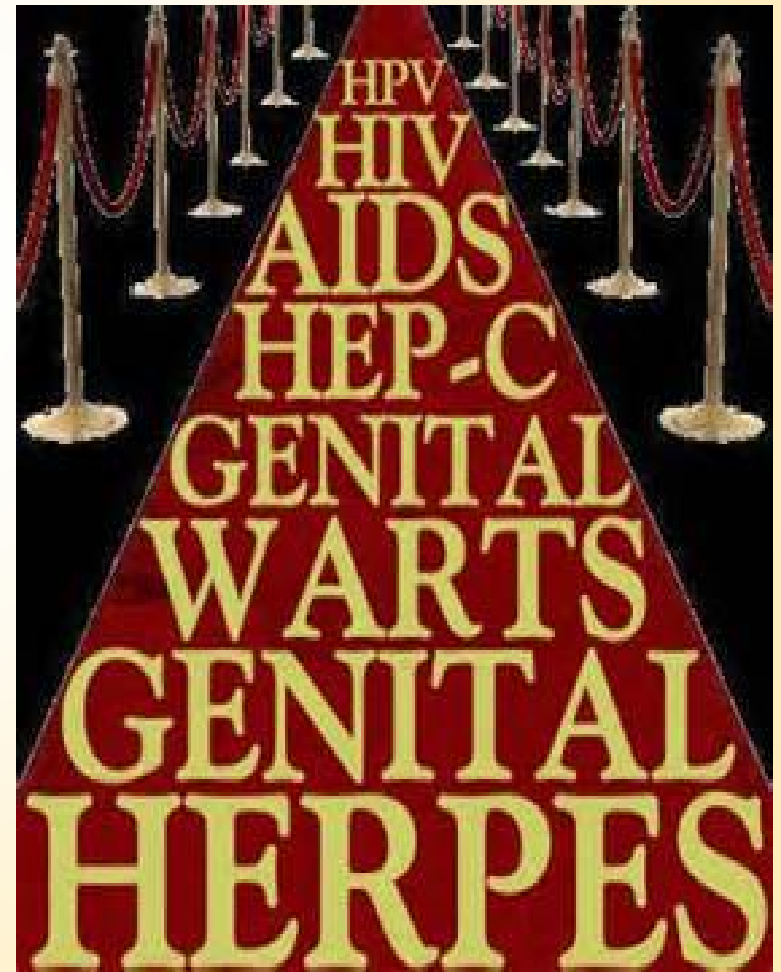
## STIs

- ▶ Who in this room would ever declare they had an STI?
- ▶ Who in this room has been treated for an STI?
- ▶ HIV disease and the Church is real... How would you handle knowing your church mate was HIV positive?
- ▶ Would you see them or treat them any differently?

# STIGMA



# WHAT WE OFTEN DON'T SPEAK ABOUT.... FIGHTING STIs





*"Don't forget to take a handful of our complimentary antibiotics on your way out."*



# BREAK SESSION



**HEALTH AND SAFETY IN THE WORKPLACE**

You never know when you might need it.

# Infection Control Week Barbados Conference

➤ **MONDAY OCTOBER, 19<sup>th</sup> 2015**

**Opening Ceremony QEH**

➤ **TUESDAY OCTOBER, 20<sup>th</sup> 2015**

**Conference Day 1**

Venue Hilton Hotel

Time: 08:30-16:00

Dinner Presentation

➤ **WEDNESDAY OCTOBER, 21<sup>st</sup> 2015**

**Conference Day 2**

Venue Hilton Hotel

Time: 08:30-16:00

➤ **THURSDAY OCTOBER, 22<sup>nd</sup> 2015**

**Infection Control and the Community: Giving back**

Dinner Presentation on Infection Control Matter

➤ **FRIDAY OCTOBER, 23<sup>rd</sup> 2015**

**Open Day Display Day at QEH**



What can an over all plan be



# Report of the Secretary-General to the UN General Assembly, 19/05/2011

*"Part of the burden of non-communicable diseases is attributable to occupational risk factors including exposure to chemical, physical, biological, ergonomic and psychosocial hazards at work. Regulation to prevent exposure to such hazards must be implemented as necessary. Multisectoral action, including monitoring by concerned social partners, is critical to reinforce implementation of national policies on health at work."\**



\*Prevention and control of non-communicable diseases. Report of the Secretary-General to the UN General Assembly, 19/05/2011

*UN Secretary General*

# United Nations General Assembly



**2011**

First High-level Meeting on NCDs (New York, 19-20 September 2011)

**2014**

Second high-level Meeting on NCDs (New York, 10-11 July 2014)  
to take stock of the progress made since 2011

**2018**

Third High-level Meeting on NCDs to report on progress achieved since 2014

# *On 16 September 2011 the UN General Assembly called upon the private sector*



*"to promote and create an enabling environment for healthy behaviours among workers, including by establishing tobacco-free workplaces and safe and healthy working environments through occupational safety and health measures, including, where appropriate, through good corporate practices, workplace wellness programmes and health insurance plans."\**

# *On 21 October 2011 in Rio de Janeiro 120 governments pledged*

*"To strengthen occupational health safety and health protection and their oversight and encourage the public and private sectors to offer healthy working conditions so as to contribute to promoting health for all."\**



\*Rio Political Declaration on Social Determinants of Health, World Conference on Social Determinants of Health, Rio de Janeiro, Brazil, 19-21 October 2011

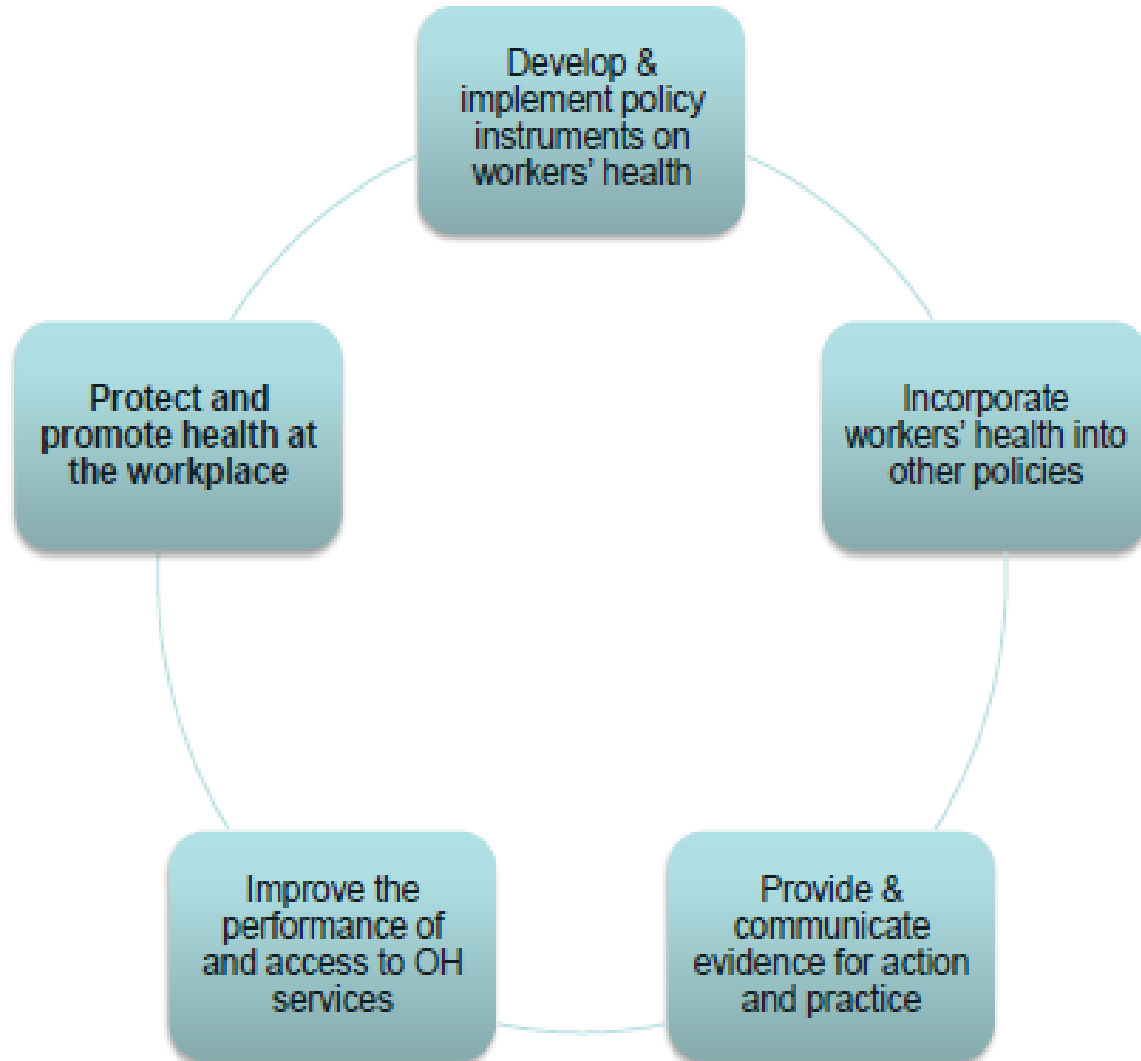
# Dealing with NCDs and CDs

## *WHO Global plan of action on workers' health 2008-2017*



### **Workers' health: global plan of action**

SIXTIETH WORLD HEALTH ASSEMBLY





Reallocate work to reduce workload  
 Zero tolerance for harassment, violence, discrimination  
 Respect work-family balance  
 Recognize & reward good performance  
 Meaningful worker input into decisions that affect them

**Psychosocial Work Environment**

**Physical Work Environment**

Introduce smoke-free workplace policies  
 Install machine guards or local exhaust ventilation  
 Train workers on safe operating procedures  
 Eliminate a toxic chemical or substitute with one less hazardous

**Personal Health Resources**

Provide fitness facilities, classes or equipment for workers;  
 Provide healthy food choices (e.g., cafeteria)  
 Provide smoking cessation assistance;  
 Provide information about alcohol and drugs, and employee assistance counseling

Root causes of poor health are identified, recorded and assessed & best practices are promoted  
 Provide free/affordable PHC to workers/family members;  
 Develop company guidelines to avoid occupational risks;  
 Accommodate workers with disabilities, going beyond regulatory requirements

**Enterprise Community Involvement**

# Dealing with NCDs and CDs

Through workplace environments, it is possible to influence the health behaviours of large proportions of the population and to conduct repeated multilevel interventions to influence health behaviours .


The “economically active population”

Data on rates of economically active populations indicate that, globally, approximately 65% of the population aged over 15 years is part of the workforce .

# The role of Employer to:

Review and test your business continuity plan with particular emphasis on alternate suppliers or third party services at least annually

Update and exercise your communications plans for all stakeholders (i.e. employees, customers, financial interests etc.) as needed



## The role of Employer to:

Establish or reconfirm contact protocols to local public safety agencies.

Understand their impact on your operations.

Assure that the lines of communication are open and information is flowing

# The role of Employer to:

Evaluate information services capabilities especially availability of working from home

Develop and test a medical or wellness plan that includes vaccinations, antiviral medicines, exposure reduction/avoidance and education of employees

Become knowledgeable of the legal ramifications if your organization is considered a 'critical infrastructure' and you have 'special responsibilities that you can no longer perform'



# Risk Management Strategies

Without a business continuity plan that addresses the recognition, prevention, mitigation of communicable diseases, employers will be unprepared to effectively and efficiently deal with significant absences, adjustments to benefit plans other challenges that arise due to the spread of an infectious disease.

# NCD Recommended “Best Buys”

Risk factor / disease	Interventions
<b>Tobacco use</b>	<ul style="list-style-type: none"> <li>• Raise taxes on tobacco</li> <li>• Protect people from tobacco smoke</li> <li>• Warn about the dangers of tobacco</li> <li>• Enforce bans on tobacco advertising</li> </ul>
<b>Harmful use of alcohol</b>	<ul style="list-style-type: none"> <li>• Raise taxes on alcohol</li> <li>• Restrict access to retailed alcohol</li> <li>• Enforce bans on alcohol advertising</li> </ul>
<b>Unhealthy diet and physical inactivity</b>	<ul style="list-style-type: none"> <li>• Reduce salt intake in food</li> <li>• Replace trans fat with polyunsaturated fat</li> <li>• Promote public awareness about diet and physical</li> </ul>
<b>Cardiovascular disease (CVD) and diabetes</b>	<ul style="list-style-type: none"> <li>• Provide counselling and multi-drug therapy (including blood sugar control for diabetes mellitus) for people with medium-high risk of developing heart attacks and strokes (including those who have established CVD)</li> <li>• Treat heart attacks ( myocardial infarction) with aspirin</li> </ul>
<p>8 7</p> <b>Cancer</b>	<ul style="list-style-type: none"> <li>• Hepatitis B immunization beginning at birth to prevent liver cancer</li> <li>• Screening* and treatment of pre-cancerous lesions to prevent cervical cancer</li> </ul>

# Legislation on Sugary Beverages and marketing in Mexico

Tax of \$1 per liter on sugary beverages, liquid or powdered



A previous example, PAN has used tobacco taxes to finance health related programs at national and regional levels.



# The Road to Success



Is Always Under Construction

# LEADING CHANGE

- Mobilize commitment
- Create shared need
- Shape the vision



# SAFETY RESPONSIBILITY



DEPENDS ON EVERYONE

# Infection Control Week Barbados Conference

➤ **MONDAY OCTOBER, 19<sup>th</sup> 2015**

**Opening Ceremony QEH**

➤ **TUESDAY OCTOBER, 20<sup>th</sup> 2015**

**Conference Day 1**

Venue Hilton Hotel

Time: 08:30-16:00

Dinner Presentation

➤ **WEDNESDAY OCTOBER, 21<sup>st</sup> 2015**

**Conference Day 2**

Venue Hilton Hotel

Time: 08:30-16:00

➤ **THURSDAY OCTOBER, 22<sup>nd</sup> 2015**

**Infection Control and the Community: Giving back**

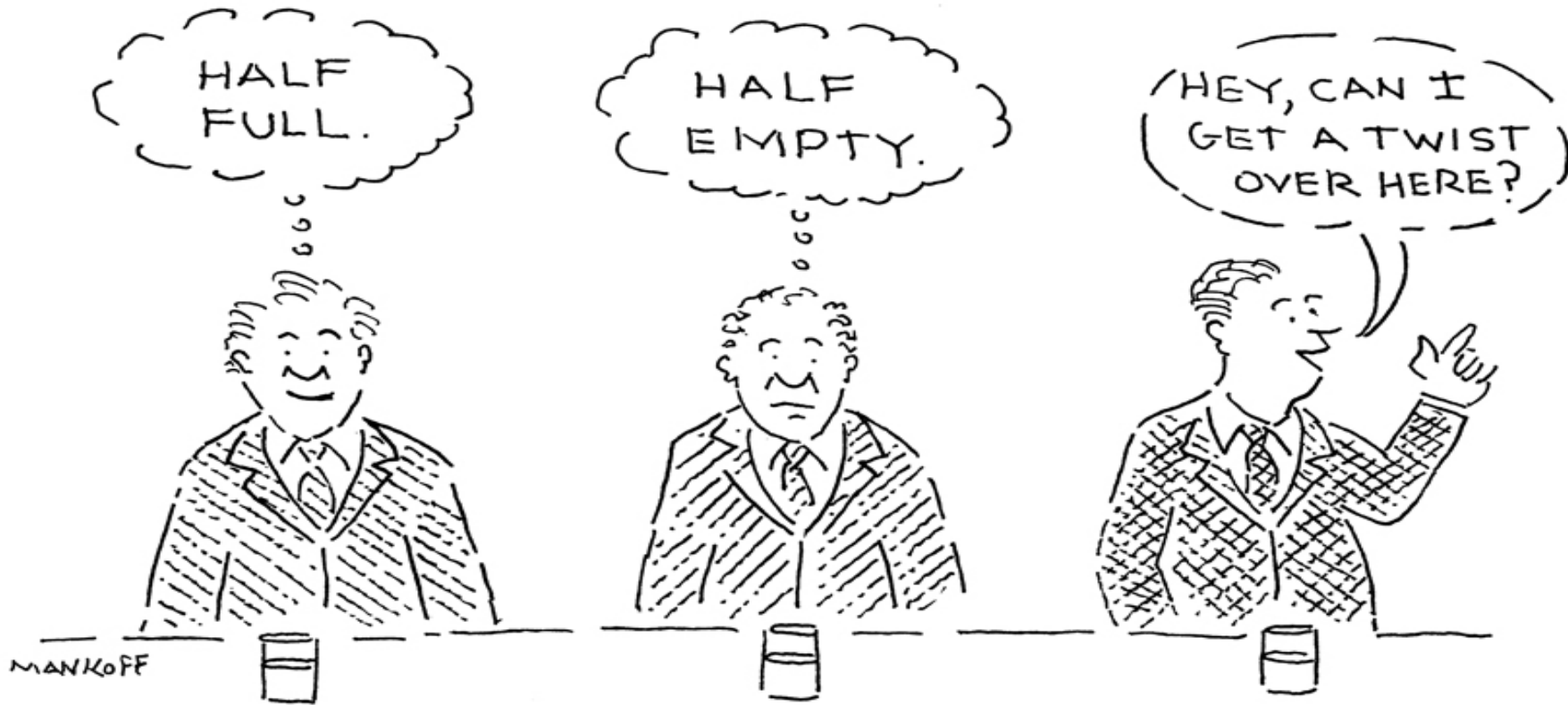
Dinner Presentation on Infection Control Matter




➤ **FRIDAY OCTOBER, 23<sup>rd</sup> 2015**

**Open Day Display Day at QEH**



# QUESTIONS



-  OPTIMIST
-  PESSIMIST
-  PRAGMATIST