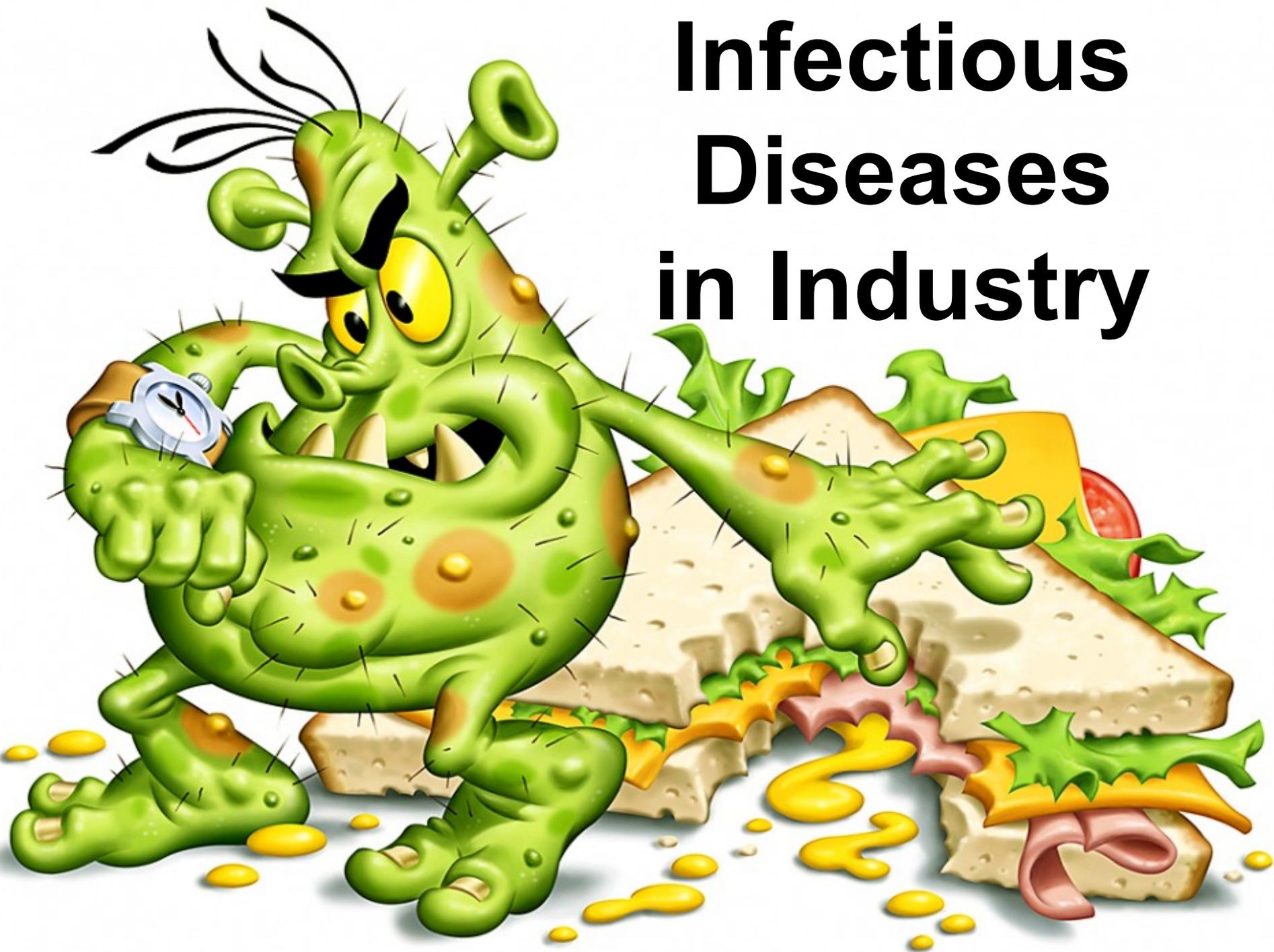


Infectious Diseases in Industry



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Lake County
General Health District

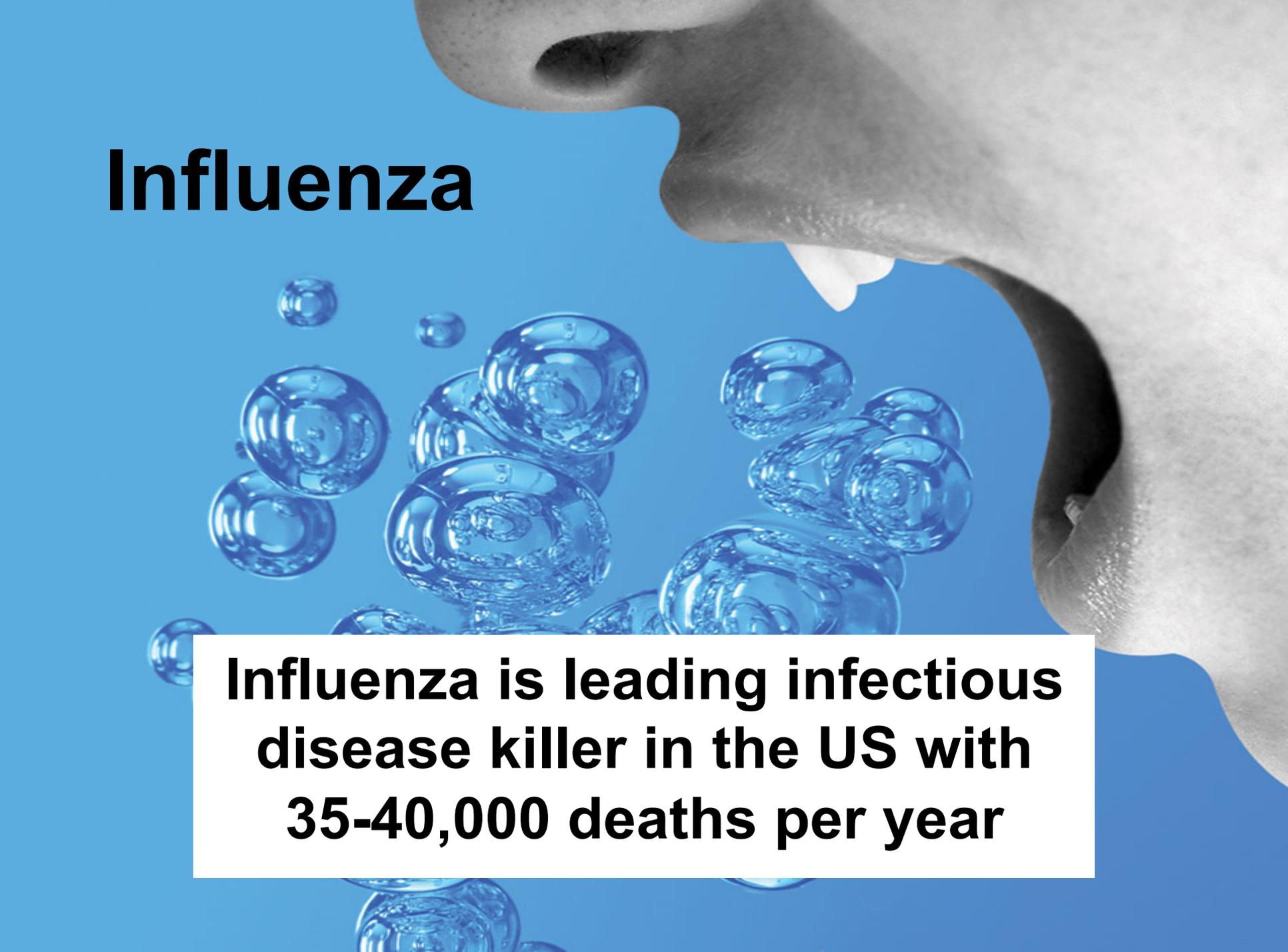


Public Health
Prevent. Promote. Protect.

Objectives

- Highlight select common communicable diseases in the workplace
- Describe the risk of contagion of those diseases and the route of spread
- Consider methods to limit risk of transmission of those disease
- Add a few surprises

Influenza



Influenza is leading infectious disease killer in the US with 35-40,000 deaths per year

Influenza

**Flu is NOT vomiting and
diarrhea!**

Symptoms of Influenza

Central

- Headache

Systemic

- Fever
(usually high)

Muscular

- (Extreme) tiredness

Joints

- Aches

Nasopharynx

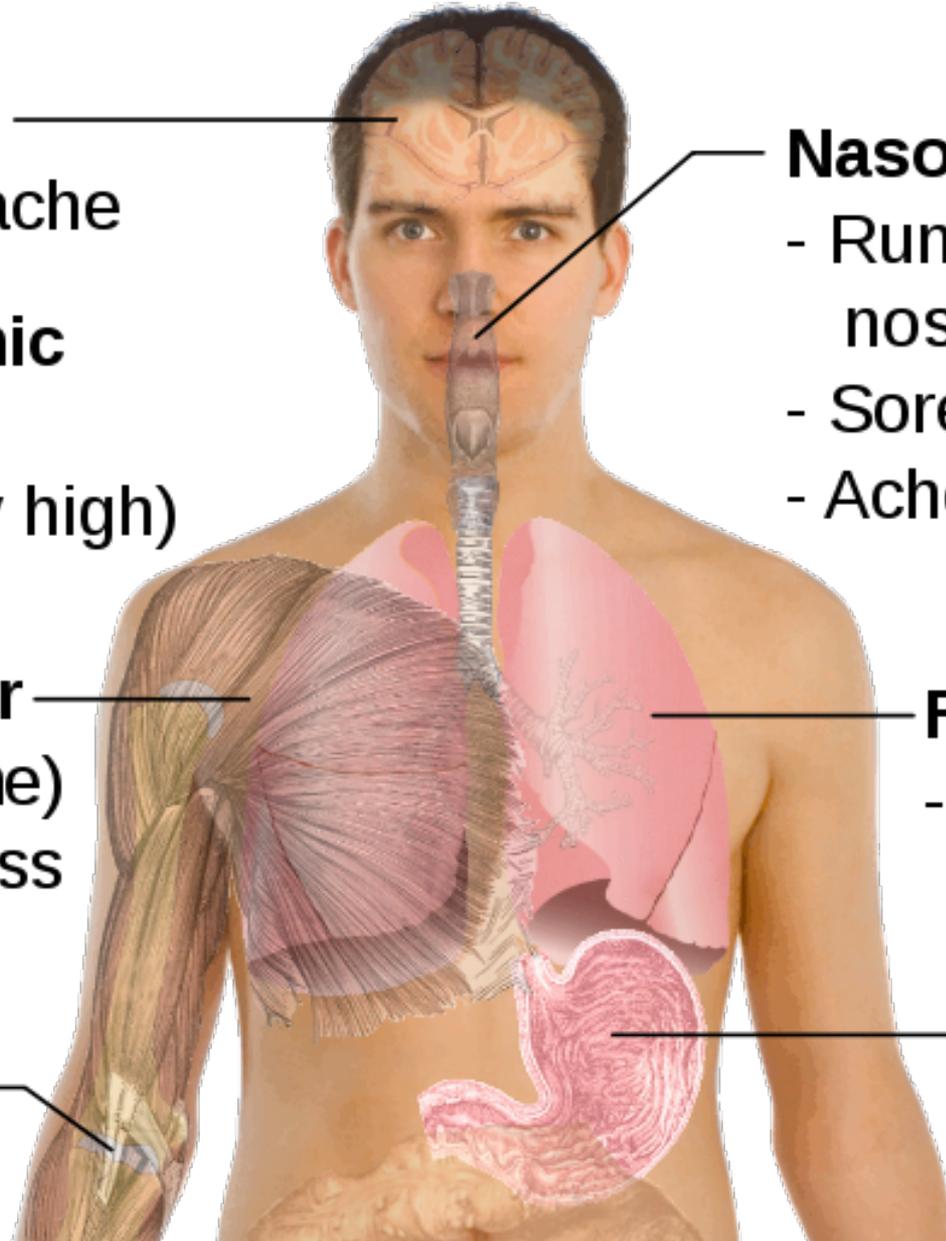
- Runny or stuffy nose
- Sore throat
- Aches

Respiratory

- Coughing

Gastric

- Vomiting



Influenza

- Contagious for 1 day prior to symptoms and up to 5 days after illness begins
- Spread by respiratory droplets and direct contact
- Prevent by cleaning surfaces and 5 foot distance
- Anti-influenza medications can prevent onset of illness after exposure

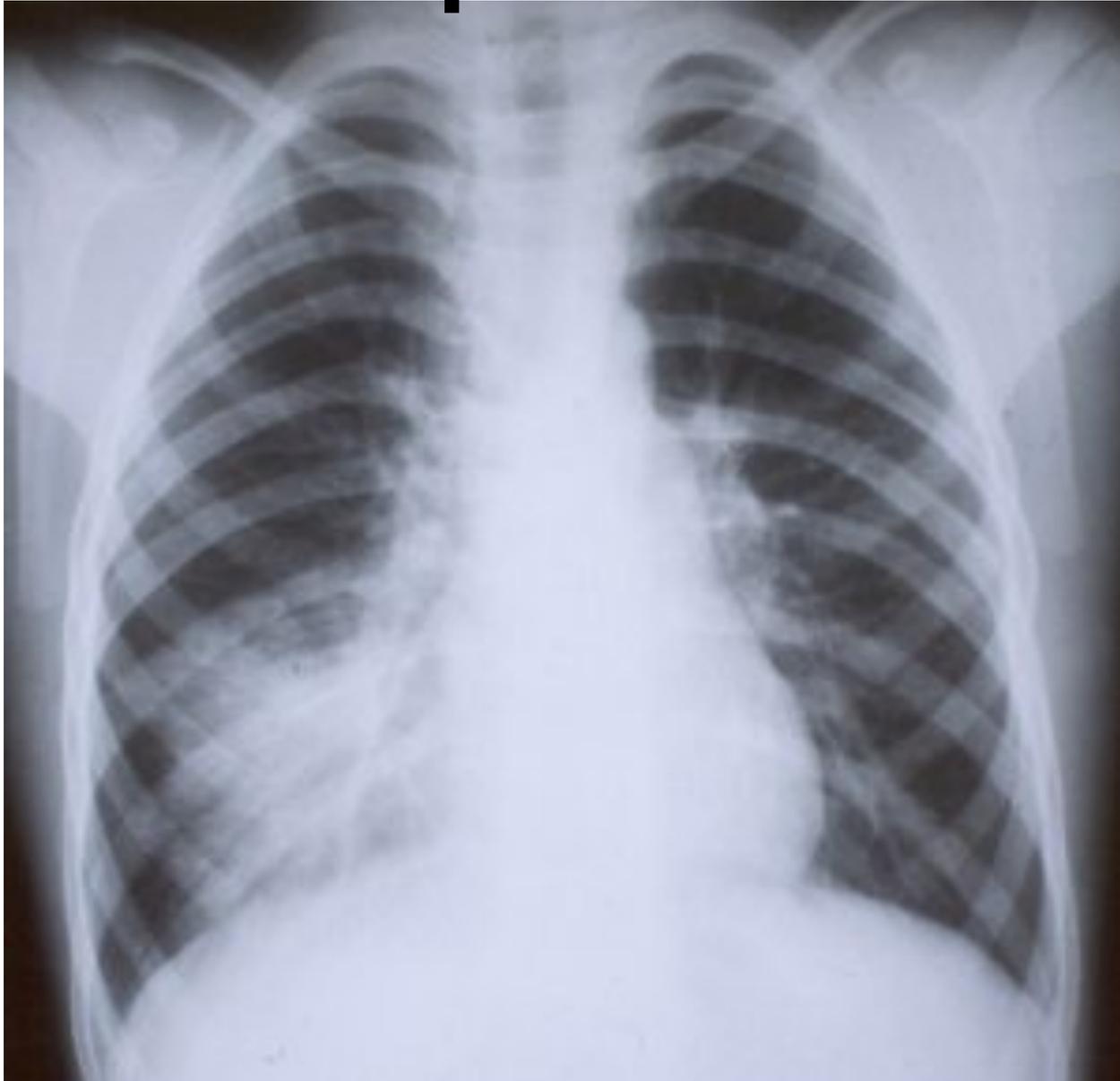


Vaccination

- Reduces the risk of infection and symptoms
- Reduces the risk of spreading the flu
- Reduces the risk of dangerous complications of influenza
- Influenza vaccination of healthy working adults saves \$47 per person annually in health care costs and sick days

**YOU CANNOT GET
FLU FROM THE FLU
SHOT!!**

Complications



“Ringworm”



Tinia corporis

Tinea pedis

Tinia capitus









Ringworm

- **Acquired by direct or indirect contact with lesions or pets**
- **Contagious as long as lesions are present**
- **Not contagious 24 hours after treatment**

A microscopic view of numerous Staphylococcus aureus bacteria, which are spherical and appear in clusters. The bacteria are stained a reddish-brown color and are set against a dark background. The lighting creates a sense of depth, with some bacteria in the foreground appearing sharper than those in the background.

***Staphylococcal* “staph” skin infections**

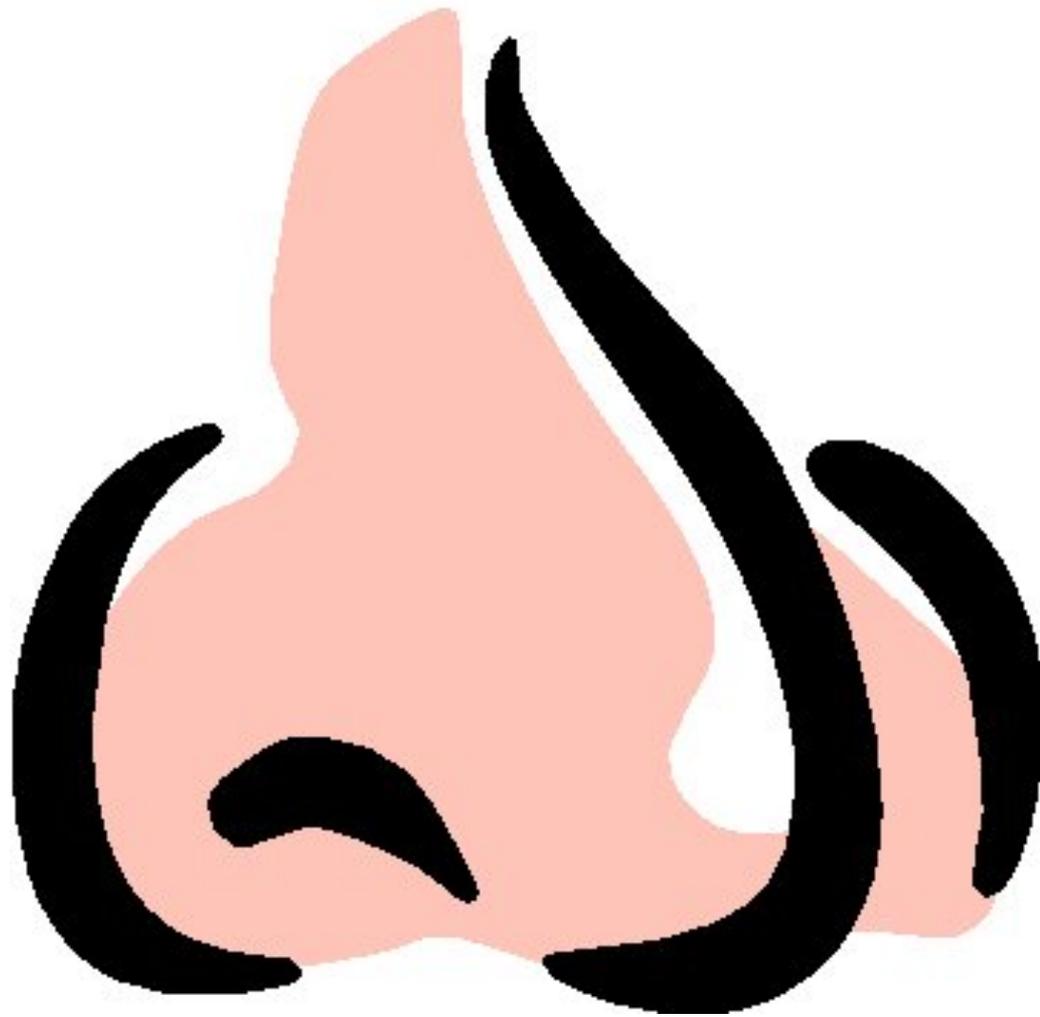
Let's start with the easy one



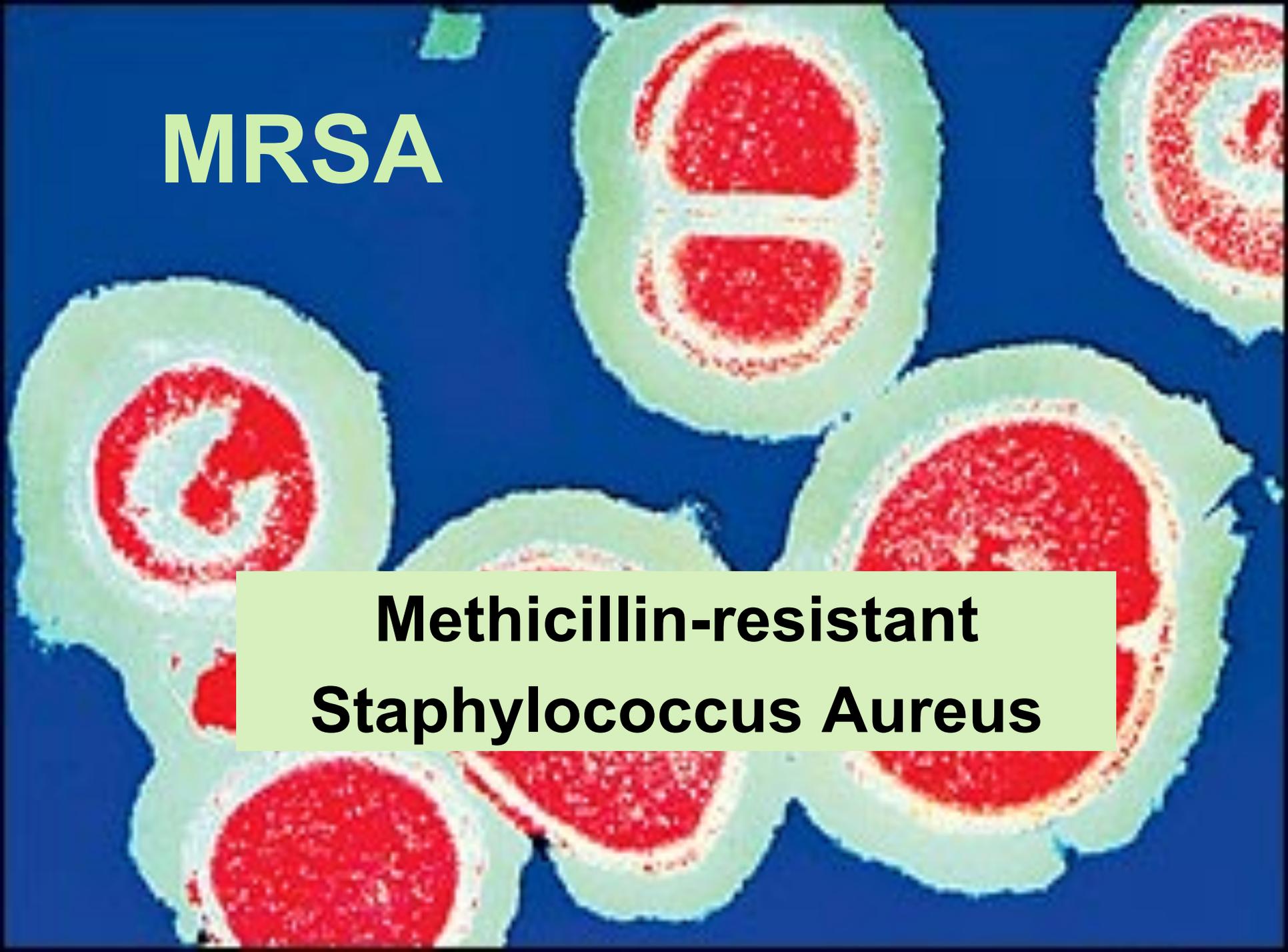
Impetigo



Cellulitis



MRSA

A microscopic image showing several Staphylococcus aureus bacteria, which are spherical in shape. The bacteria are arranged in small clusters and chains. Each bacterium has a distinct red outer layer (cell wall) and a lighter, granular interior (cytoplasm). The background is a dark, almost black color, which makes the red and light-colored bacteria stand out prominently.

**Methicillin-resistant
Staphylococcus Aureus**

**MRSA WAS FIRST
ISOLATED IN THE US
IN 1968.**

**BY 2003, IT
ACCOUNTED FOR
60% OF ALL STAPH
ISOLATES IN ICUS**

Looks like a spider bite





Photo Credit: Gregory Moran, M.D.







MRSA

- Does not respond to usual antibiotics previously used to treat staphylococcus
- Certain antibiotics continue to be effective
- Spread by direct contact
- Contagious until 24 hours after treatment started.
- Pus is contagious—keep covered until lesions dry



Conjunctivitis



Pink-eye

Conjunctivitis

- Highly contagious—up to 75% of those exposed will get it
- Acquired through direct and indirect contact
- Treatment
- Contagious until 24 hours after treatment starts

Varicella







Chicken Pox and Shingles

- Acquired through direct and indirect contact and respiratory droplets
- Contagious 1-2 days prior to rash then 6 days after rash or until lesions crusted
- Keep shingles rash covered in workplace to prevent transmission
- Consider varicella vaccine



Strep Throat

A close-up photograph of a person's throat, showing the tongue, pharynx, and tonsils. The tonsils are significantly red and swollen, with numerous small white spots (exudate) scattered across their surface. The surrounding pharyngeal tissue also appears red and inflamed. The image is used to illustrate the symptoms of strep throat.

'Tis the season

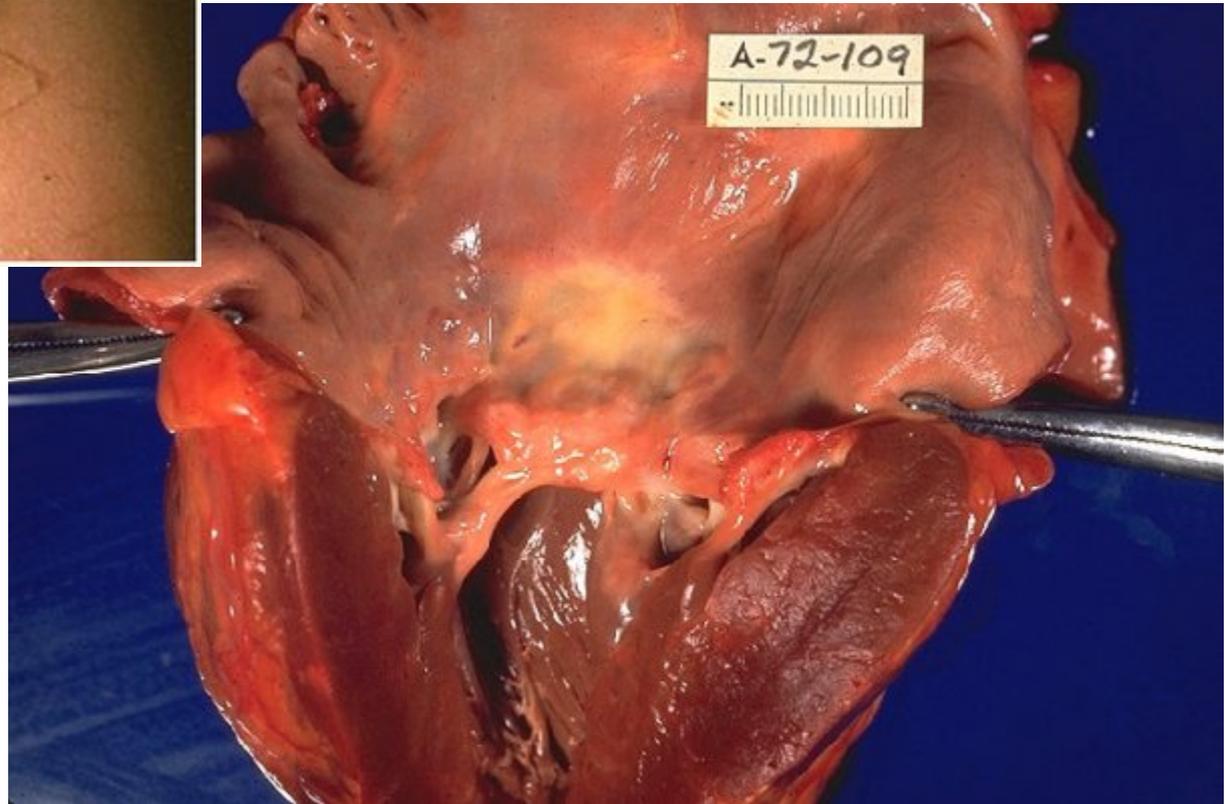


Strep Pharyngitis

- Need to treat with antibiotics to prevent Rheumatic Fever
- Acquired through direct contact with ...snot
- 25% contagious at most
- Contagious until 24 hours after antibiotics started



Rheumatic Fever



The Common Cold



Common Cold

- Sore throat, runny nose, sneezing
- Acquired through direct and indirect contact (dirty tissues) and inhalation of respiratory droplets (Remember 5 ft!)
- Contagious for 24 hours before symptoms appear to 5 days after onset
- No need for isolation

Poison Ivy



A close-up photograph of green, serrated leaves. The leaves show signs of insect damage, including small holes and a distinct triangular-shaped hole on a leaf in the lower-left quadrant. A small, light-colored insect is visible on the surface of a leaf in the lower-right quadrant. The text "NOT CONTAGIOUS!" is overlaid in large, bold, red capital letters across the center of the image.

**NOT
CONTAGIOUS!**

**AND NOW FOR
SOMETHING
COMPLETELY
DIFFERENT**



Meet Club Drug

MOLLY

THEWATERSHED.COM/BLOG





Krokodil





**and now it's time for something
completely different**



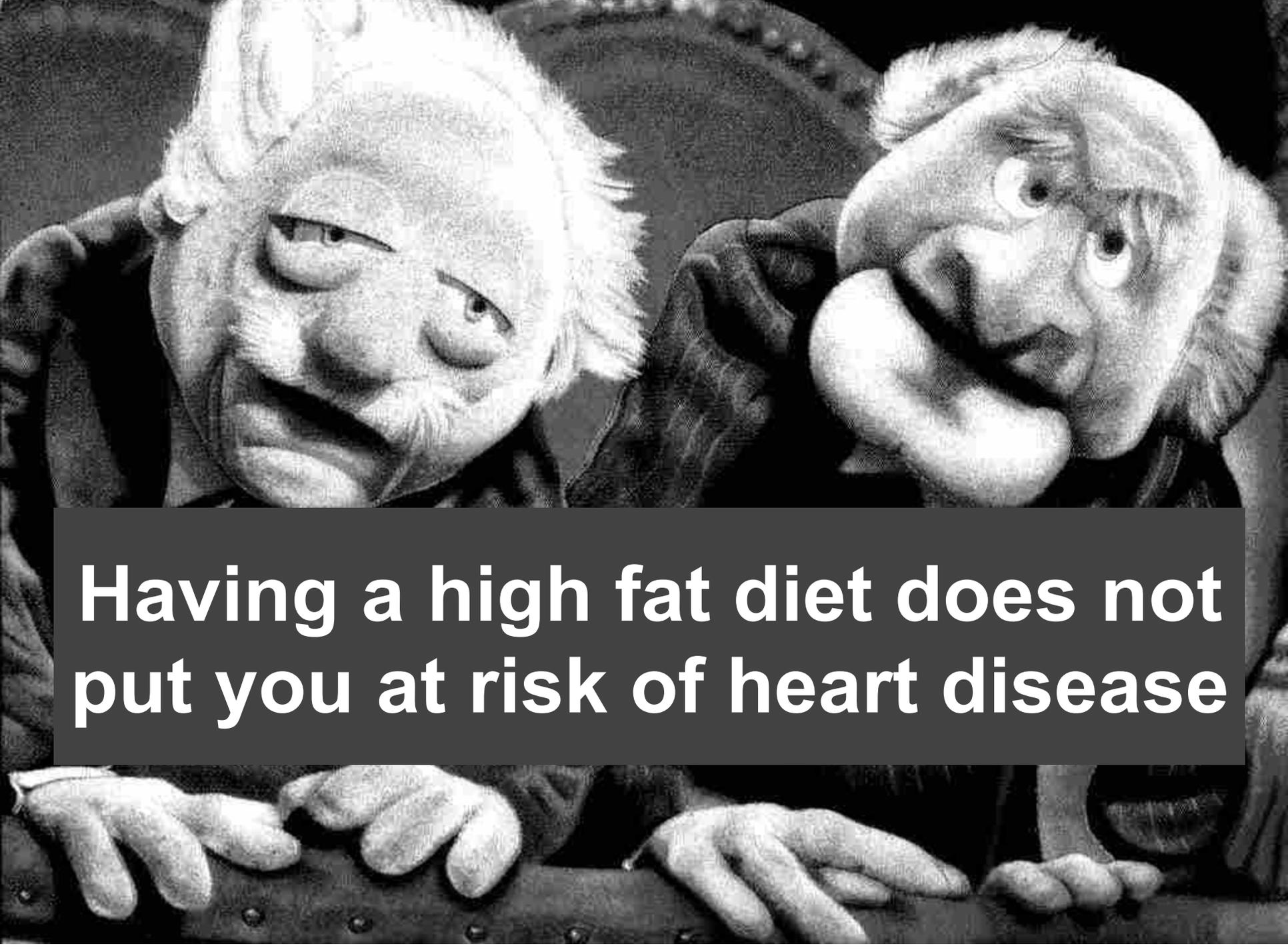
Dietary Goals for the US 1977



**Carbohydrates cause
heart attacks**



**But, fats are bad for the heart too,
right?**



**Having a high fat diet does not
put you at risk of heart disease**

**Having a high
cholesterol
does not
necessarily put
you at risk of
heart disease**



**The average serum cholesterol
in acute MI patients is 104 mg/
dl**



WHICH IS NORMAL!

**The shift to a low fat diet
was one of the most
dangerous conceptual
shifts in public health in
American history**

Gary Taubes

Good Calories, Bad Calories

What to do?





IT'S TIME TO PLAY
SPOT THE LOONEY



**MONTY
PYTHON**
THE SPOT THE LOONEY
FROM THE MONTY PYTHON MOVIES