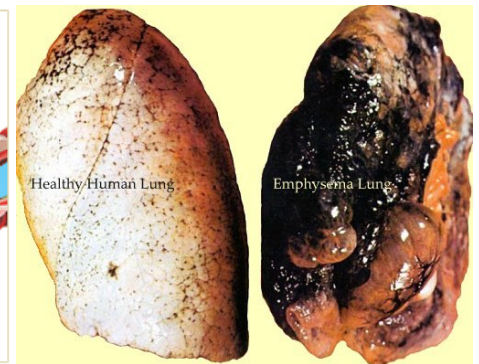
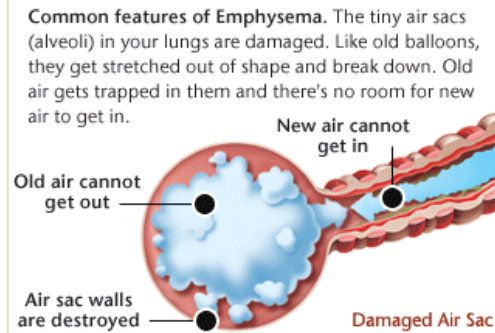
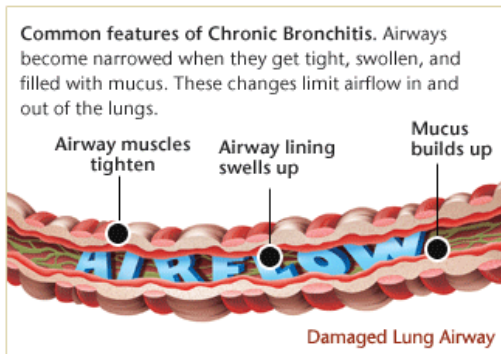


Station 5: COPD

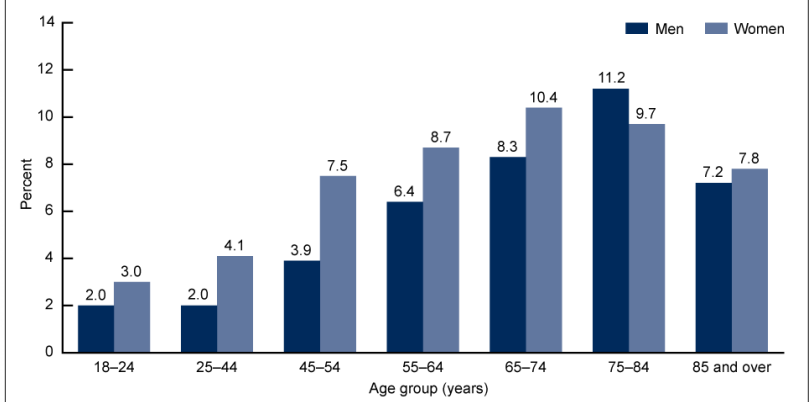
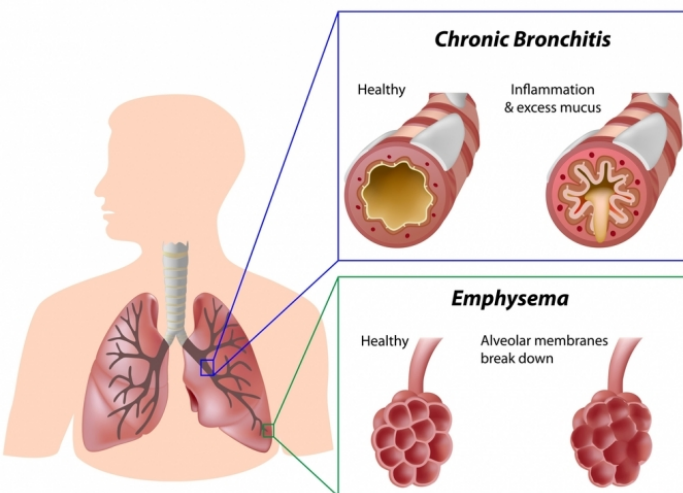
Chronic Obstructive Pulmonary Disorder; includes chronic bronchitis, emphysema, and asthma

Causes & Risk Factors	Symptoms	Treatment Options
Asthmatic bronchitis Tobacco smoke Dust exposure Chemical fume exposure Air pollution Age Genetics	Chronic cough Shortness of breath Wheezing Tight chest Lung damage Increased mucus Heart disease *Leading cause of death worldwide	Smoking cessation Medications Bronchodilators Antibiotics Oxygen therapy Pulmonary rehabilitation Lung reduction Lung transplant

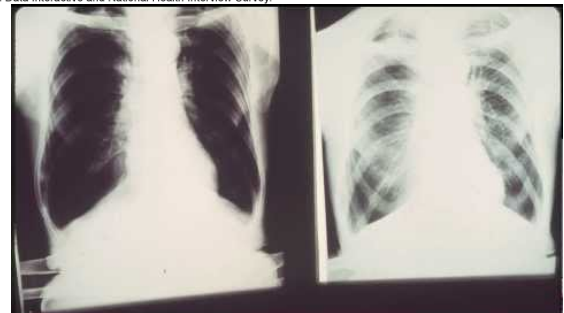


Chronic Obstructive Pulmonary Disease (COPD)

Figure 2. Prevalence of COPD among adults aged 18 and over, by age group and sex: United States, annual average 2007–2009



NOTES: COPD is chronic obstructive pulmonary disease. Access data table for Figure 2 at: http://www.cdc.gov/nchs/data/databriefs/db63_tables.pdf#2. SOURCES: CDC/NCHS, Health Data Interactive and National Health Interview Survey.

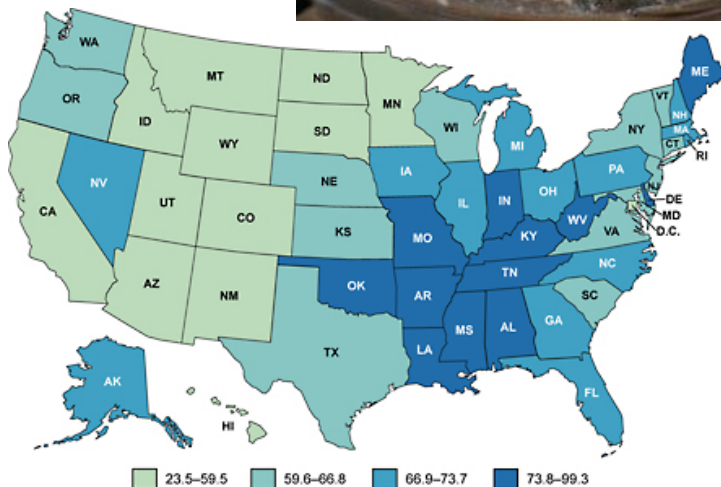
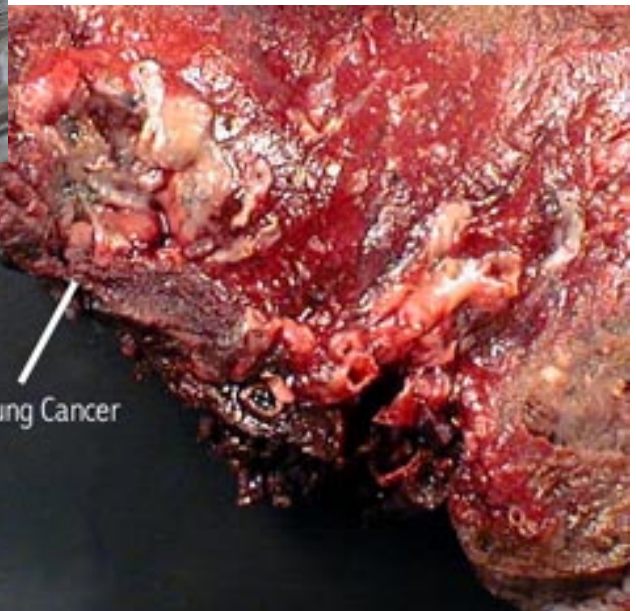
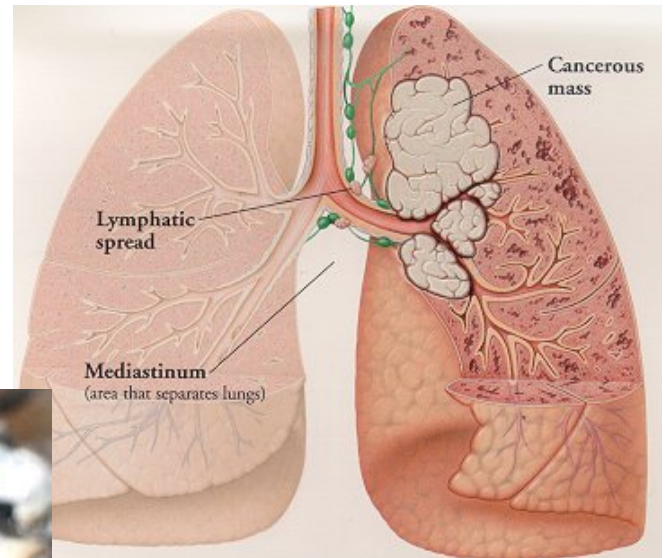
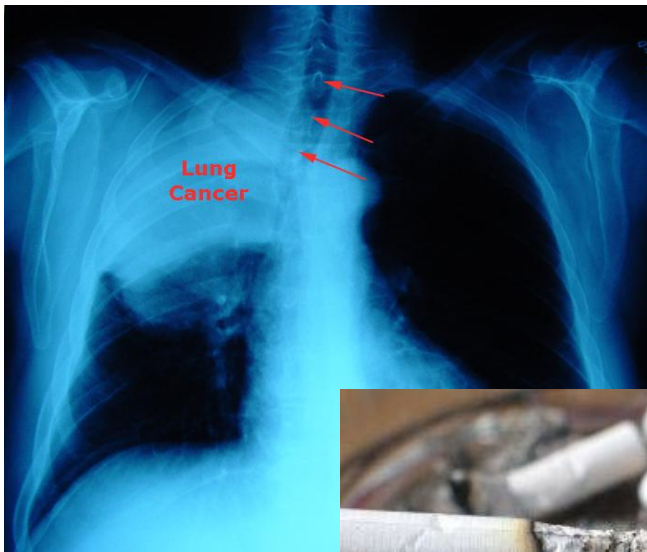


- <http://i.ytimg.com/vi/1tbGIP1H8II/hqdefault.jpg>
- http://www.copdguide.com/resources/images/what_is_graphic_common.gif
- https://s3.amazonaws.com/healthtap-public/ht-staging/user_answer/reference_image/9514/large/Emphysema.jpg?1344953536
- <http://realbodyawarness.files.wordpress.com/2011/03/emphysema-lung-ashx.jpg>
- http://www.cdc.gov/nchs/data/databriefs/db63_fig2.png

Station 5: Lung Cancer

Uncontrolled cell growth & development of tumors in the lungs

Causes & Risk Factors	Symptoms	Treatment Options
Smoking (90% of cases) Second-hand smoke Asbestos exposure Radon gas Genetics Air pollution	Occur at later stages: Chest pain Shortness of breath Blood in sputum Chronic infections Persistent cough Fatigue Weight loss	Radiation Chemotherapy Surgical removal Targeted therapy *At later stages treatments will only prolong life, not cure the disease

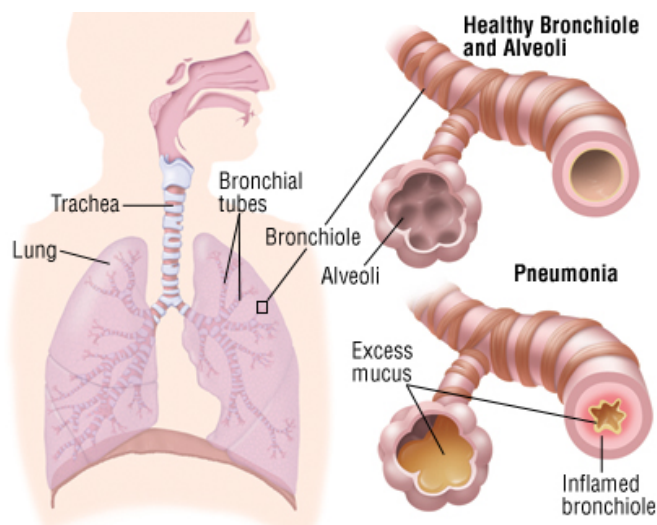
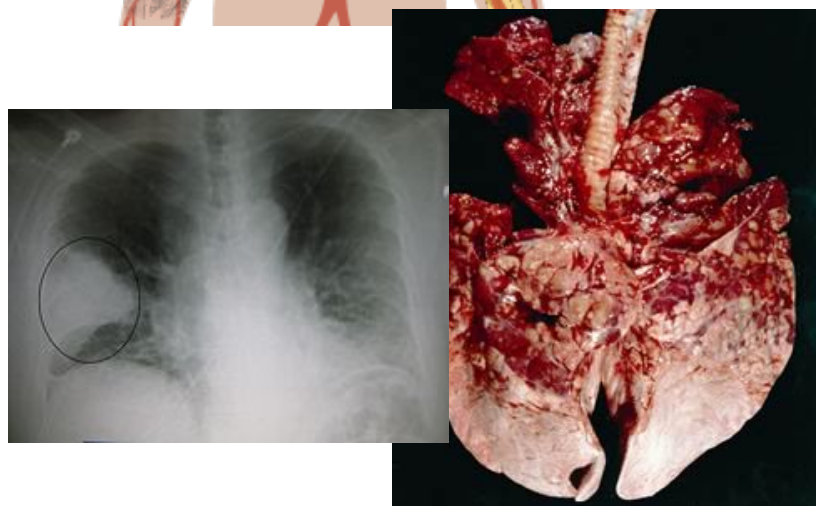
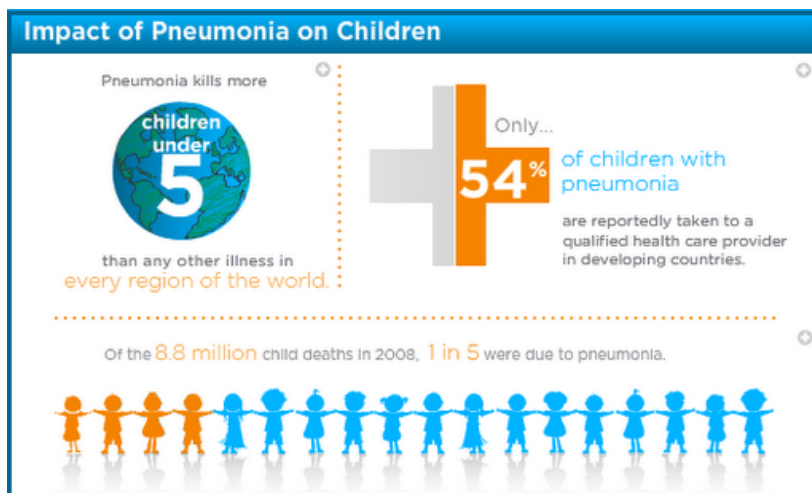
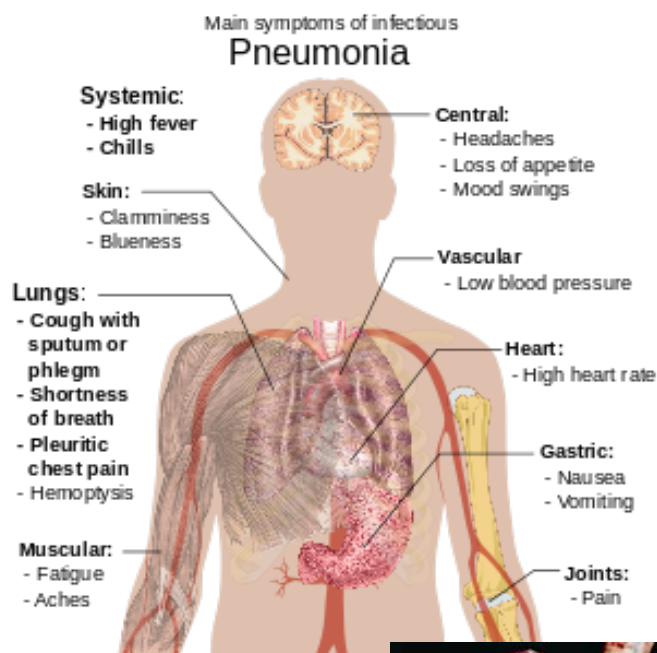


- <http://tocancer.com/wp-content/uploads/2011/08/c25.jpg>
- <http://www.jacksonjewellery.com/wp-content/uploads/2012/05/Lung-Cancer.jpg>
- http://www.cdc.gov/cancer/lung/images/2008_lung_map_incidence.jpg
- http://www.tobaccofacts.info/images/chest_x-ray_lung-cancer.jpg

Station 5: Pneumonia

Bacterial or viral infection of the lungs

Causes & Risk Factors	Symptoms	Treatment Options
Bacterial infection Viral infection Aspiration Exposure to infected individuals Impaired immune system Complication with other respiratory infections	Fever Shortness of breath Chills Chest pain Tachycardia Fatigue Nausea and vomiting Diarrhea Cough with mucus	Over the counter medication Antibiotics Oxygen therapy



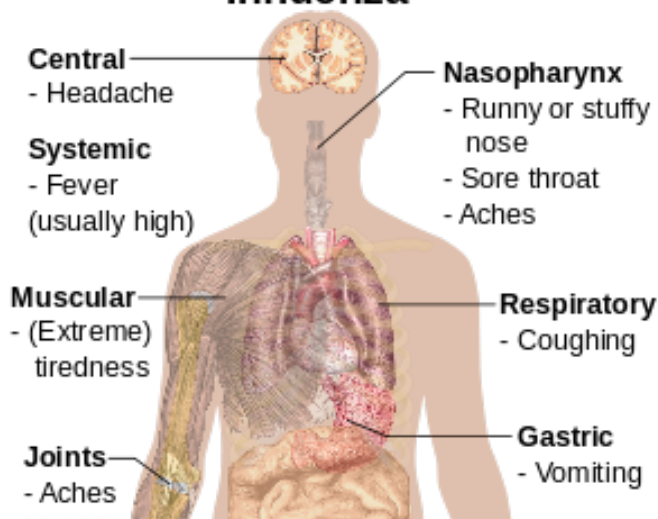
- <http://upload.wikimedia.org/wikipedia/commons/thumb/a/ac/PneumonisWedge09.JPG/230px-PneumonisWedge09.JPG>
- <http://www.drugs.com/health-guide/images/204871.jpg>
- <http://www.stackyard.com/news/2006/11/veterinary/lungs.jpg>
- <https://lh5.googleusercontent.com/-GJyWEZSrE4Y/UKE8Bif56sI/AAAAAAAAAmY/iEdH7-JSV4Y/pneumonia.png>
- http://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Symptoms_of_pneumonia.svg/300px-Symptoms_of_pneumonia.svg.png

Station 5: Seasonal Flu

A viral infection; There are many variations of this virus and it changes rapidly year to year which changes the severity of symptoms

Causes & Risk Factors	Symptoms	Treatment Options
Inhaled in respiratory droplets Age Occupation Living conditions Weakened immune system Chronic illness Pregnancy	Dry cough Fatigue Congestion Headache Body ache Chills Fever Nausea and vomiting	Early vaccination Over-the-counter medication Antiviral medication Rest and hydration

Symptoms of Influenza



FLU PREVENTION TIPS

GET VACCINATED Influenza is the only respiratory virus preventable by vaccination.

WASH YOUR HANDS Wash them often with soap and water.

STAY HOME Stay home for a full 24 hours after your fever goes away.

KEEP SANITIZER CLOSE Use it often and tell children and those around you to do the same.

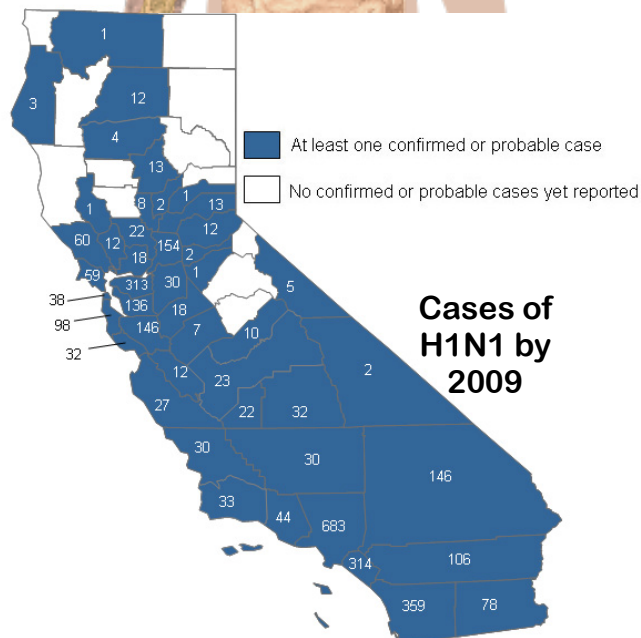
EXERCISE It boosts your immune system and speeds recovery from illness.

DON'T TOUCH YOUR FACE This is the easiest way for germs to get into your body.

EAT RIGHT Eating healthy, balanced meals can strengthen your immune system.

SMILE Studies show that smiling can help boost your immune system.

Up to
20%
of the U.S.
will get the flu.



A. <http://textbookofbacteriology.net/themicrobialworld/avianfluvirus.jpg>

B. <http://www.nationaljewish.org/img/stock/Flu-Prevention-Tips-Infographic.png>
<http://www.medicalecology.org/diseases/influenza/6>

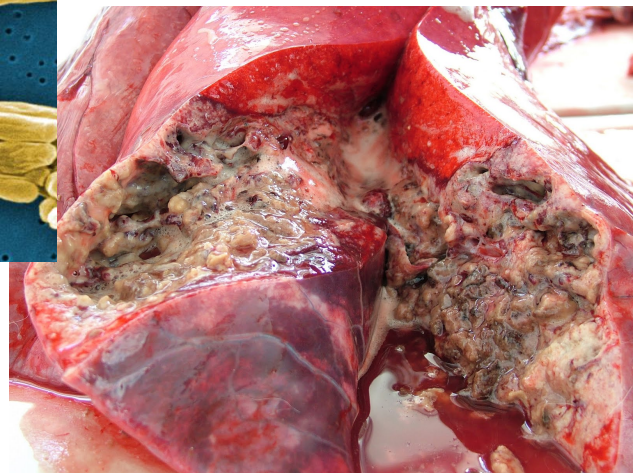
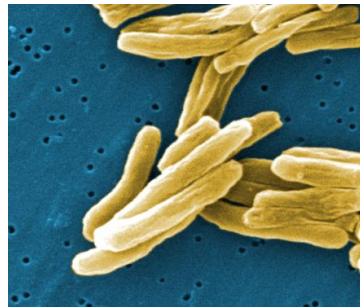
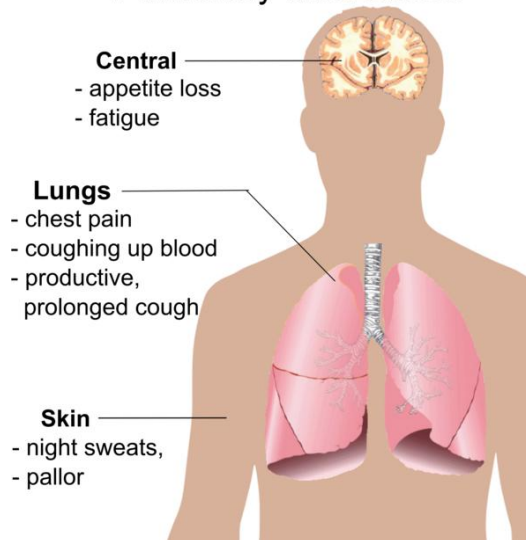
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Station 5: Tuberculosis

Bacterial infection in the respiratory system caused by *Mycobacterium tuberculosis*

Causes & Risk Factors	Symptoms	Treatment Options
Contagious, inhaled Weakened immune system Care/live with TB patients Drug & alcohol abuse Travel where TB is common	Latent TB – asymptomatic Cough with thick mucus Weight loss & night sweats Fever & fatigue Tachycardia Swollen lymph nodes Shortness of breath Chest pain	Long-term antibiotics Surgery Medication *Some drug resistant variations cannot be treated

Main symptoms of Pulmonary tuberculosis

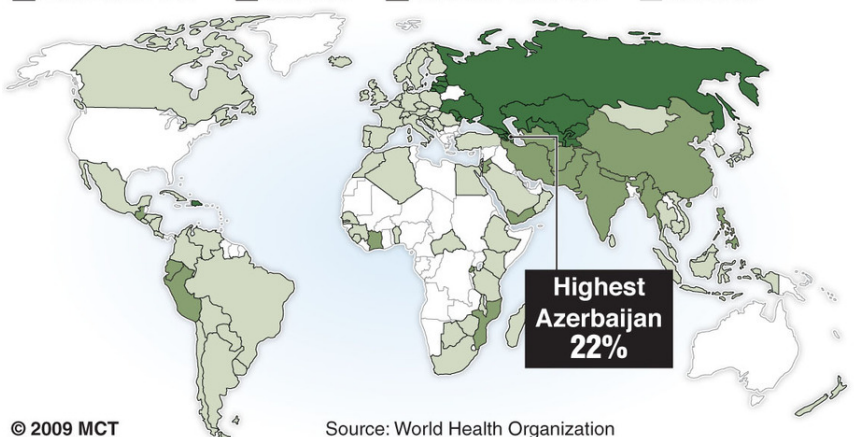


Multidrug-resistant tuberculosis

There are nearly half a million new MDR-TB cases a year worldwide.

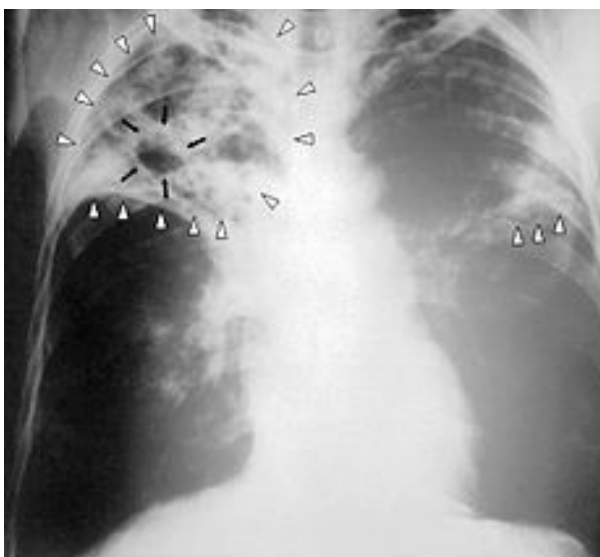
MDR-TB among new TB cases 1990-2007

☐ Less than 3%
 ☐ 3%-6%
 ☐ Greater than 6%
 ☐ No data



© 2009 MCT

Source: World Health Organization



- <http://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Tuberculosis-x-ray-1.jpg/230px-Tuberculosis-x-ray-1.jpg>
- <http://www.news-medical.net/image.axd?picture=2009%2F12%2F9997.png>
- http://media.mcclatchydc.com/smedia/2009/04/01/19/467-20090401-TUBERCULOSIS.large.prod_affiliate.91.jpg
- http://2.bp.blogspot.com/_ayDfkQkrVmU/TFJ0cIyjbWI/AAAAAAAAAIs/5oG7IQ7UuHI/s1600/post+mortem+Dis+alpacas.JPG
- https://s3.amazonaws.com/healthtap-public/ht-staging/user_answer/reference_image/2427/large/Tuberculosis.jpeg?1344912794