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## TB

New forms of TB like multi-drug resistant and extensively drug resistant is resistant to antibiotics and current treatments and can be more dangerous. Those that have latent or inactive forms do not transmit and are not contagious but if their immune system becomes weak, they can start presenting signs and TB can become active and be infectious to others. Active TB can be deadly. The size of the induration to have a “positive” TB skin test differs depending on the age, health, and history of the patient. Medications that are used to treat TB are very toxic to the liver. But it is very important to finish all the medication cycle which is very long. DOT is used to make sure the patient is taking the medications. This is when the patient is sent to a specific place to take the medication in front of a healthcare worker to ensure proper dosage and completion of the medication.

## COPD

Limits the flow of air to and from the lungs. It is the fourth leading cause of death in the United States. There are two types of COPD- Emphysema and Bronchitis. Smoking is the most common cause but can also be genetic. If the patient is diagnosed with COPD and it was caused by genetics it is usually because of the deficiency of the enzyme AAT. The damage caused by COPD is irreversible, but a lifestyle change, and medication can help slow the progression and extend the life expectancy as well as the quality of life.

## Sleep apnea

When you stop breathing because of an obstruction. REM sleep can make sleep apnea worse because it paralyzes you while you dream. People with recent weight gain can increase your chance of having sleep apnea by 10-14%. The leading s/s of sleep apnea are BMI, Neck size, and W/H ratio. As you age you are at more risk of developing sleep apnea with the peak at the age of 50-59. Women are more likely of developing the condition after menopause.

## Pneumonia

There are many types of pneumonia such as, bronchial, lobar, community acquired, ventilator associated, opportunistic, and aspiration pneumonia each having different causes and effects. Vaccination is a good idea for newborns to help fight against the disease-causing bacteria. Discharge instructions include drink plenty of water, stay home as much as possible, and get plenty of rest.

## Chest tubes

A chest tube is a tube inserted into the pleural space to remove air or fluid to help lungs expand. If fluid or air is in this space it can cause the lungs to collapse. Chest tube can also be a tube that is inserted in mediastinum space to drain fluid from around the heart after cardiac surgery. There are different drainage systems wet suction and dry suction. The difference between the two is how it suction. Drainage system needs to be kept below the patient's chest. And the tubing coming

from the patient's chest are secure and draining down. Monitor how much drainage it is putting out.