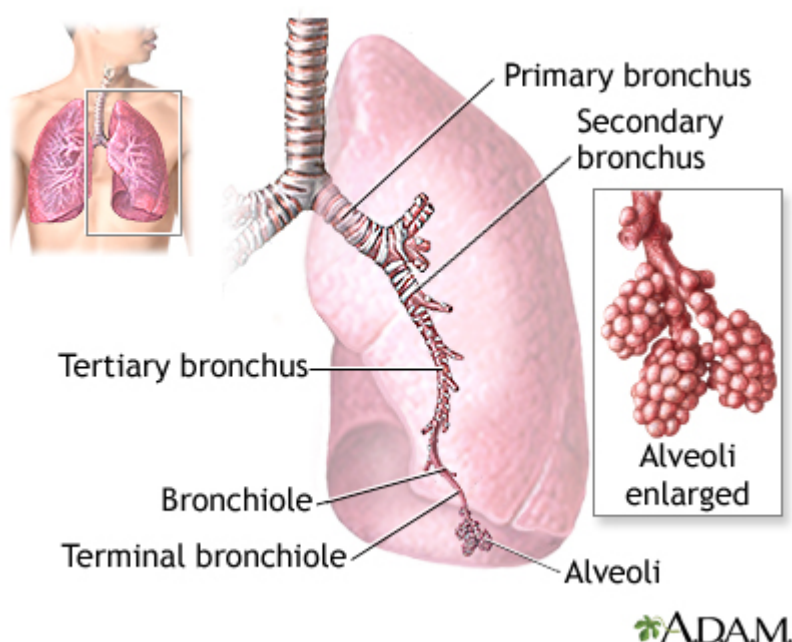


[Home](#) → [Medical Encyclopedia](#) → Empyema

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## Empyema

Empyema is a collection of pus in the space between the lung and the inner surface of the chest wall (pleural space).



## Causes

Empyema is usually caused by an infection that spreads directly from the lung. It leads to a buildup of pus in the pleural space.

There can be 2 cups (1/2 liter) or more of infected fluid. This fluid puts pressure on the lungs.

Risk factors include:

- Bacterial pneumonia
- Tuberculosis
- Chest surgery
- Lung abscess
- Trauma or injury to the chest

In rare cases, empyema can occur after thoracentesis. This is a procedure in which a needle is inserted through the chest wall to remove fluid in the pleural space for medical diagnosis or treatment.

# Symptoms

Symptoms of empyema may include any of the following:

- Chest pain, which worsens when you breathe in deeply (pleurisy)
- Dry cough
- Excessive sweating, especially night sweats
- Fever and chills
- General discomfort, uneasiness, or ill feeling (malaise)
- Shortness of breath
- Weight loss (unintentional)

## Exams and Tests

Your health care provider may note decreased breath sounds or an abnormal sound (friction rub) when listening to your chest with a stethoscope (auscultation).

Tests that may be ordered include:

- Chest x-ray (may require multiple positions)
- CT scan of chest
- Thoracentesis
- Pleural fluid analysis

## Treatment

The goal of treatment is to cure the infection. This involves the following:

- Placing a tube in your chest to drain the pus
- Giving you antibiotics to control the infection

If you have problems breathing, you may need surgery to help your lung expand properly.

## Outlook (Prognosis)

When empyema complicates pneumonia, the risk for permanent lung damage and death goes up. Long-term treatment with antibiotics and drainage are needed.

In general, most people fully recover from empyema.

## Possible Complications

Having empyema may lead to the following:

- Pleural thickening
- Reduced lung function

# When to Contact a Medical Professional

Contact your provider if you develop symptoms of empyema.

## Prevention

Prompt and effective treatment of lung infections may prevent some cases of empyema.

## Alternative Names

Empyema - pleural; Pyothorax; Pleurisy - purulent

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