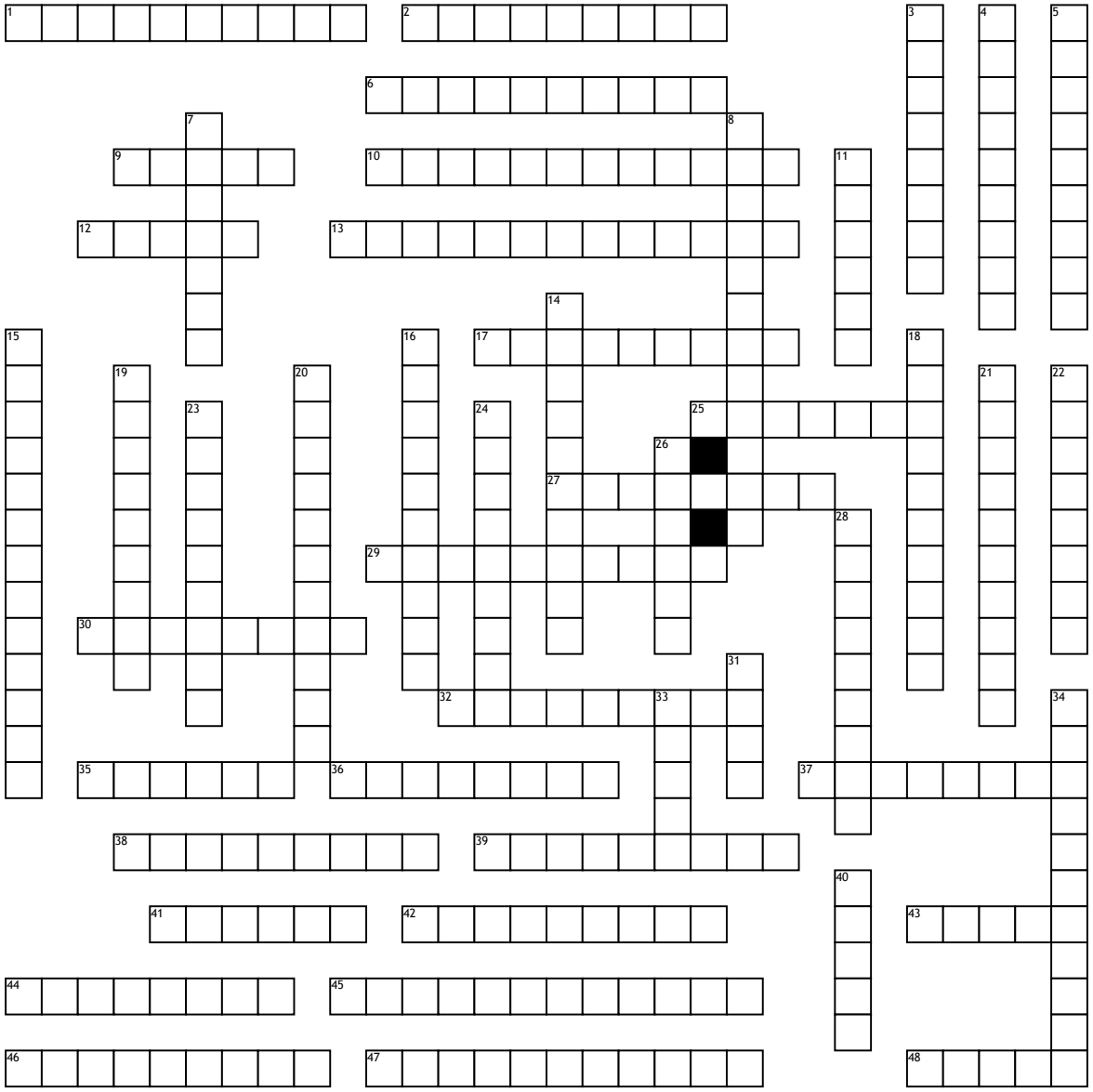
# Cystic Fibrosis Crossword Puzzle



**Across**

**1.** An imaging technique used to monitor disease progression
**2.** Inflammation of the paranasal sinuses
**6.** Insertion of a tube into the airways
**9.** For most patients, disease of the _____ is the most problematic
**10.** Individuals with cystic fibrosis have an extreme _____ response to pathogens
**12.** Measured for electrolyte level diagnostic test
**13.** Radiographs are helpful in managing pulmonary _____
**17.** Score used to quantitatively assess the progression of pulmonary disease
**25.** Recommended therapy for CF-related diabetes
**27.** CF is more common for those of central or northern _____ descent
**29.** Condition of coughing up blood
**30.** Thrives in mucus environment
**32.** A lower than normal level of oxygen in the blood
**35.** Another term for thick mucus
**36.** First individual to recognized cystic fibrosis
**37.** All _____ should be screened for CF
**38.** Infection that inflames lungs alveoli, filling them up with fluid
**39.** Cystic fibrosis is an autosomal _____ disease
**41.** High-pitched whistling sound occurring when breathing
**42.** CF can lead to a decreased _____ in females
**43.** Excessive buildup of fluid in the body
**44.** Individuals with one copy of the mutation are identified as _____ of CF
**45.** Around 3% of patients will experience a spontaneous _____ in their lifetime
**46.** Caused by _____ in the cystic fibrosis transmembrane conductance regulator (CFTR) gene
**47.** Prescribed to control and prevent lung and sinus infections
**48.** Cystic fibrosis has a median age of _____ years today

**Down**

**3.** Condition that may result from prolonged low blood-oxygen levels
**4.** Hypothesis that is commonly accepted as explanation for airway disease in cystic fibrosis
**5.** Only NSAID recommended for chronic use in CF patients
**7.** Type of medicine that helps open the airways
**8.** Cystic fibrosis does not reappear in _____ lungs
**11.** Chronic infection of the lungs can lead to _____ destruction
**14.** _____ enzymes help absorb fats and protein when taken with meals
**15.** Incapability to absorb nutrients
**16.** An instrument that measures the amount of air exhaled and inhaled
**18.** Process of determining differences in the genetic make-up
**19.** _____ population is most commonly affected
**20.** Type of dysfunction where a person cannot efficiently clear inhaled bacteria
**21.** Type of pseudomonas that causes chronic chest infection in CF
**22.** A repeat in this test is done to confirm diagnosis
**23.** An _____ identifies patients with one or two copies of the gene mutation
**24.** Type of hypertension commonly seen in CF patients
**26.** CFTR protein regulates the movement of chloride and _____ ions
**28.** Individuals with two copies of the mutation are _____ with the disease
**31.** Individuals with CF have a higher than normal level of _____ in their sweat
**33.** Cystic Fibrosis affects _____ production in the body
**34.** _____ treatments represent the ultimate challenge to patients
**40.** Affected individuals can _____ up mucus