

## Alpha-1 Antitrypsin Deficiency and Low Weight

- ✓ Alpha-1 antitrypsin deficiency can lead to lung and liver disease.
- ✓ Lung and liver disease can cause people to be underweight.
- ✓ Underweight people with lung or liver disease can have worse outcomes.

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✓ There are multiple ways that lung disease can lead to being underweight, including:			
•		Using more energy to breathe:	
	<b>_</b>	<ul> <li>An individual without chronic obstructive pulmonary disease (COPD) uses approximately 100 calories per day to expand and contract the muscles involved with breathing</li> <li>Individuals with COPD use between 430 and 720 calories per day just for the work of breathing, even if they are not aware of this extra work</li> </ul>	
		Eating less because:	
	_	<ul> <li>The lungs take up more room, which causes you to become full faster</li> </ul>	
		<ul> <li>A full stomach increases shortness of breath due to pressure on the diaphragm</li> </ul>	
		Decreased appetite due to some medications that are prescribed for lung disease	
		Mood changes such as depression (due to life changes) can result in a decreased appetite	
/		underweight is associated with worse outcomes among individuals with lung disease, including	
	_	Decreased survival	
		More frequent lung infections and worse outcomes of pneumonia	
		Less exercise tolerance and loss of muscle mass	
		Weak respiratory muscles and worse shortness of breath	
Liv	er Dise		
<b>/</b>	There	are multiple ways that liver disease can lead to being underweight, including:	
		Loss of appetite, nausea, vomiting, fatigue, and weakness due to liver disease	
		Cirrhosis can impair the liver's ability to break down food and process nutrients	
		Muscle wasting occurs from liver disease	
		Fluid accumulation can mask the loss of muscles, because weight stays unchanged	
<b>~</b>	_	underweight is associated with worse outcomes among individuals with liver disease, especially	
		sis. These malnutrition outcomes include:	
	ш	Higher rates of liver disease complications such as infections, brain dysfunction due to liver	
	П	failure (hepatic encephalopathy), and fluid buildup in the abdomen (ascites)	
Sto		Decreased survival, before and after liver transplant  Can Take to Gain Weight	
√ _		are different approaches to improving your weight.	
· /	Work with your healthcare provider to determine the underlying cause(s) of your low weight, treat		
	the cause(s), and develop the best plan for you.		
<b>/</b>	AlphaNet's Big Fat Reference Guide (BFRG) includes a chapter on nutrition. Below are some tips from		
	the BFRG to help improve your appetite and manage mealtime fatigue:		
		Choose foods that are easy to prepare and eat	
		Keep food visible and within easy reach	
		Eat small, frequent meals and snacks	
		Walk or do light activity to stimulate your appetite (at least 30 minutes before meals)	
		Drink beverages after a meal instead of before or during a meal so you do not feel as full	
		Make eating a pleasurable experience, not a chore	
	_	Plan meals that include your favorite foods	
		Try eating the high-calorie foods in your meal first	
		Freeze extra portions of what you cook so you can have a quick meal when you're tired	
		Try eating your main meal early in the day so you have enough energy to last you for the day	